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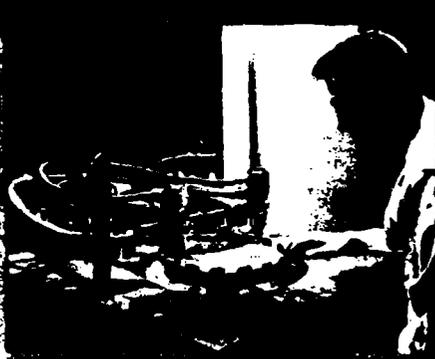
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# PRODUCT GUIDE

Coating container caps with  
Dewey and Almy sealants  
INDUSTRIAL CHEMICALS GROUP



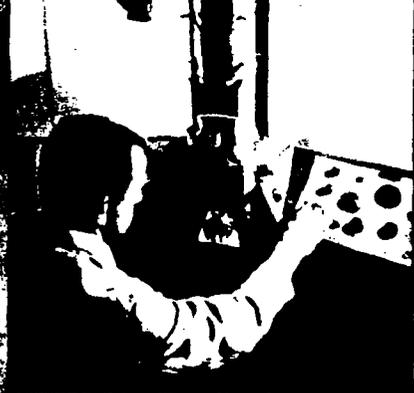
Water treatment  
chemicals are  
manufactured to suit  
individual customer  
requirements  
SPECIALTY PRODUCTS GROUP

Grace fertilizers  
increase crop yields  
AGRICULTURAL CHEMICALS GROUP

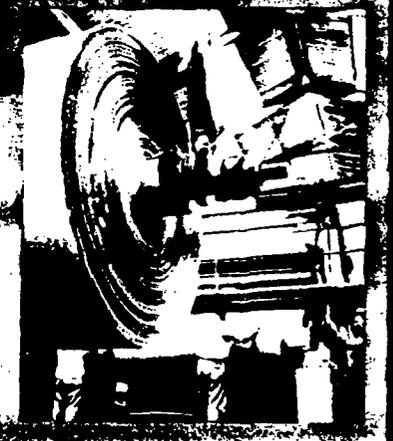
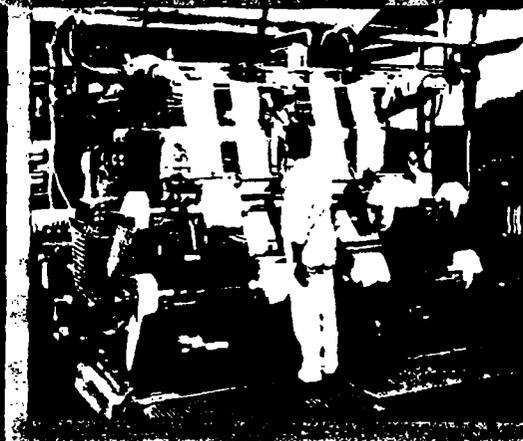


Electron microscope  
studies at the  
Washington  
Research Center  
RESEARCH DIVISION

Filling aerosol cans  
with penetrating oil  
at Terason in West Germany  
OVERSEAS CHEMICAL DIVISION



Production of molecular sieves  
Davison Chemical Division  
INDUSTRIAL CHEMICALS GROUP



Quality control is a  
byword in Grace packaging  
CRYOVAC DIVISION

Grace papers serve many  
Latin American markets  
LATIN AMERICAN GROUP



1968

# PRODUCT GUIDE

W. R. GRACE & CO.

7 HANOVER SQUARE NEW YORK, N. Y. 10005

## CONTENTS

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The Worlds of Grace . . . . .	3
Research and Tomorrow's Technology . . . . .	3
Index of Grace Operating Units . . . . .	4
How to Use the Product Guide . . . . .	6
Index of Products—Including Principal Trademarks and Trade Names . . . . .	7-28
<b>Major Operating Units—W. R. Grace &amp; Co.</b>	
<i>(Complete index, p. 4)</i>	
Agricultural Chemicals Group . . . . .	29
Cryovac Division . . . . .	41
Hatco Group . . . . .	45
Industrial Chemicals Group . . . . .	53
Nuclear Fuel Services, Inc. . . . .	81
Specialty Products Group . . . . .	82
Latin American Group . . . . .	90
Consumer Products Group . . . . .	105
Grace Line Inc. . . . .	111
Grace Petroleum Corporation . . . . .	112

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#### NOTES

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In this publication, W. R. Grace & Co. refers to one or more of its subsidiary companies or affiliates. All of Grace's operations outside of the United States, as well as some of its United States operations, are carried on through subsidiaries and affiliates. The names of subsidiary companies are given where useful.

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## **The Worlds of Grace**

The story of W. R. Grace & Co. began in 1850 when William Russell Grace decided to seek his fortune in South America. With a group of Irish emigrants, Grace sailed for Callao, Peru, where he embarked upon a business career that led to the founding of W. R. Grace & Co. in 1854.

W. R. Grace & Co. first gained preeminence in Latin American shipping and commodity trading and over the years expanded its activities to include international manufacturing, shipping, banking and air transportation.

Beginning in the early 1950's chemicals became another World of Grace. Since then, the company has established a strong position in the manufacturing and marketing of agricultural and industrial chemicals, specialty chemicals, and plastics and packaging materials. Today chemical operations account for more than two thirds of consolidated company sales and revenues.

W. R. Grace & Co.'s imaginative and innovative progress also includes the worlds of domestic and foreign consumer products, paper manufacturing, and mining in Latin America; petroleum and nuclear energy.

These many Worlds of Grace are made up of over 67,660 people working in more than 375 plants, 600 sales offices and distribution facilities in 47 states and 46 countries.

## **Research and Tomorrow's Technology**

Tomorrow's technology lies in the frontiers of today's knowledge. The continuing growth of the Worlds of Grace depends on the Research Division's constant search for new processes and products for tomorrow's needs. The Group's varied activities benefit Grace customers through continuing product development and technical services.

The hub of this research program is the Washington Research Center at Clarksville, Maryland. Here, and at other laboratories and experimental centers throughout the world, more than 1,200 scientists, technicians and supporting staff conduct basic and applied research investigating new approaches to product and process development that will give tomorrow's markets that *extra touch of Grace*.

**OPERATING UNITS—  
Domestic and Canada**

	Page
Ambrosia Chocolate Co. Division . . . . .	105
American Breeders Service, Inc. . . . .	35
Blue River Feed Mills . . . . .	30
Caribe Nitrogen Corporation . . . . .	29
Carolina Nitrogen Corporation . . . . .	34
Cornelius Wax Refining Corp. . . . .	46
Cryovac Division . . . . .	41
Davison Chemical Division . . . . .	53
Dawbarn . . . . .	43
Dearborn Chemical Division . . . . .	86
DeKalb Feed . . . . .	29
Dewey and Almy Chemical Division . . . . .	56
DuBois Chemicals Division . . . . .	82
Ellay Rubber Division . . . . .	45
Elm Coated Fabrics Division . . . . .	45
Farr Better Feeds . . . . .	29
Grace Fibers Canada Ltd. . . . .	43
Grace Line Inc. . . . .	111
Gulf & South American Steamship Co., Inc. . . . .	111
Hampshire Chemical Division . . . . .	70
Hatco Group . . . . .	45
Hooton Chocolate Company . . . . .	105
Howards & Sons (Canada) Ltd. . . . .	46
Ideal Roller . . . . .	66
Leaf Brands Division . . . . .	105
Marco Chemical Division . . . . .	46
Joshua Meier Division . . . . .	46
Miller Brewing Company . . . . .	110
Miller Products . . . . .	31
Nalley's Fine Foods Division . . . . .	109
Nuclear Fuel Services, Inc. . . . .	81
Ochoa Fertilizer Co., Inc. . . . .	29
Overseas Chemical Division . . . . .	71
P-A-G . . . . .	29
Research Division . . . . .	3
Rudy-Patrick Seed . . . . .	29
SeaPak Division . . . . .	110
Southbridge Plastics Division . . . . .	47
Southern Resin & Solvents Division . . . . .	47
Southwest Fertilizer . . . . .	31
Transparent Paper Products Limited . . . . .	44
C. J. Van Houten & Zoon, Inc. . . . .	106

Page

The Veratex Corporation . . . . .	89
Vestal Laboratories Division . . . . .	88
Walnut Grove Products . . . . .	30
Zonolite . . . . .	68

**OPERATING UNITS—Africa, Asia,  
Australia, Europe, New Zealand,  
United Kingdom**

Josh Abrahams & Son Pty. Ltd. . . . .	71
Borg Service A B . . . . .	73
Borg Holding A G . . . . .	73
Borg Service G. m. b. H. . . . .	72
Borg Service Limited . . . . .	73
Borg Service S. A. . . . .	72
Borg Service SAE . . . . .	73
Borg Service S. p. A. . . . .	73
Boston S. p. A. . . . .	71
N. V. Cacaofabriek "De Zaan" . . . . .	106
Compagnie des Restaurants Jacques Borel, S. A. . . . .	108
Cresco Fertilizers Ltd. . . . .	29
Detarex Limited . . . . .	72
Fuji-Davison Chemical Ltd. . . . .	71
Grace A G . . . . .	73
W. R. Grace A/S . . . . .	72
W. R. Grace Africa (Proprietary) Ltd. . . . .	72
W. R. Grace Australia Pty. Ltd. . . . .	71
Grace DuBois Ltd. . . . .	72
Grace Española, S. A. . . . .	72
Grace G. m. b. H. . . . .	71
Grace Hellas E. P. E. . . . .	71
W. R. Grace (Hong Kong) Ltd. . . . .	73
Grace Italiana S. p. A. . . . .	71
W. R. Grace Kabushiki Kaisha . . . . .	71
W. R. Grace Limited . . . . .	72
Grace (Nederland) N. V. . . . .	73
W. R. Grace (N. Z.) Limited . . . . .	71
W. R. Grace (Philippines) Inc. . . . .	72
Grace Petroleum Corporation . . . . .	112
Grace Portuguesa (Produtos Quimicos y Plasticos) Limitada . . . . .	73
Grace S. A. R. L. . . . .	71
Hellerup Fløde Is, A/S . . . . .	108
Highley Plastics (N. Z.) Limited and Plastak Sales (N. Z.) . . . . .	71

	Page		Page
Highley Plastics Proprietary Ltd. . . . .	71	Colprotex S. A. . . . .	90
Highley Plastics Sales (Victoria) Pty. Ltd. . . . .	72	Comestibles La Rosa S. A. . . . .	90
Hughes Brothers Limited . . . . .	108	Conservas California S. A. . . . .	90
Kabaya Leaf, Inc. . . . .	105	Cueros Artificiales S. A. de C. V. . . . .	91
Koninklijke Fabrieken C. J. Houten & Zoon N. V. . . . .	105	Darex S. A. I. y. C. . . . .	90
Leaf Belgium N. V. . . . .	105	DuBois Mexicana, S. A. de C. V. . . . .	91
Leaf Confections Limited . . . . .	105	Empresa Pesquera Eperva S. A. . . . .	90
Leaf Limited . . . . .	105	Envases Sanmarti S. A. . . . .	91
Liam Devlin & Sons Limited . . . . .	105	Eriez Productos Magnéticos e Metalúrgicos Ltda. . . . .	90
Mantequeras Arias S. A. . . . .	108	Estalsa, S. A. . . . .	90
Marela Limited . . . . .	108	Fábrica de Pinturas Vencedor . . . . .	91
Nippon DuBois K. K. . . . .	71	Federation Chemicals Limited . . . . .	29
Omicron Proprietary Limited . . . . .	71	Grace y Cia.(Bolivia) S. A. . . . .	91
OY Borg Huolto-Service A B . . . . .	72	Grace y Cia.(Chile) S. A. . . . .	91
Pillnay-Lacke Darex G. m. b. H. & Co. . . . .	71	Grace y Cia.(Ecuador) S. A. . . . .	92
Pilman S. A. . . . .	72	Grace y Cia.(Peru) S. A. . . . .	92
Rexolin Chemicals Aktiebolag . . . . .	72	Hucke Hermanos S. A. C. . . . .	90
Servicised Limited . . . . .	72	Ico Pinturas, S. A. . . . .	90
Sheng Huo Enterprise (Malaysia) Limited . . . . .	105	Industria Cartonera Ecuatoriana S. A. . . . .	90
Silica Gel Limited . . . . .	72	Industrias Coia S. A. . . . .	90
Societe Atlantique d'Engrais Chimiques . . . . .	29	International Fishery & Fishmeal Ltd. . . . .	91
Tanara S. p. A. . . . .	108	International Machinery Co. (Bolivia) S. A. . . . .	91
Teroson Española S. L. . . . .	72	International Machinery Co. (Peru) S. A. . . . .	91
Teroson et Protection Chimiques S. A. . . . .	71	International Mining Co. . . . .	90
Teroson-Werke G. m. b. H. . . . .	71	Interquímica S. A. . . . .	91
Urney Chocolates, Limited . . . . .	105	Minsur Partnership Limited . . . . .	91
Van Houten Limited . . . . .	106	Pinturas Ecuatorianas S. A. (PINTEC) . . . . .	91
C. J. Van Houten & Zoon S. a. r. L. . . . .	105	Plastar S. A. (Comercio e Industria Materias e Productos Plásticos) . . . . .	90
Verstuivingsbedrijf "De Zaan Spray" N. V. . . . .	105	Plásticos y Derivados C. A. (PLAYDECA) . . . . .	91
		Plastiflex C. A. . . . .	91
		Pozuelo, S. A. . . . .	90
		Productora de Papeles S. A. (PROPAL) . . . . .	90
		Productos Darex S. A. . . . .	92
		Productos Darex, S. A. de C. V. . . . .	91
		Productos Químicos "Darex", Limitada . . . . .	90
		Química Proco S. A. . . . .	90
		Sintéticos S. A. . . . .	90
		Sociedad Boliviana de Cemento S. A. . . . .	90
		Sociedad Paramonga Ltda. . . . .	91
		Teroson Argentina S. R. L. . . . .	90
		Teroson-Peru . . . . .	91
		Vulcan Material Plástico S. A. . . . .	90

**OPERATING UNITS —  
Latin America**

Alimentos Kern de Guatemala S. A. . . . .	91
Alimentos y Conservas Ducal, S. A. . . . .	91
Avicaya Ltda. . . . .	90
Carboquímica, S. A. . . . .	90
Cartavio S. A. . . . .	91
Cia. "Arturo Field y La Estrella" Ltda. . . . .	91
Cia. Mollner Boliviana S. A. . . . .	90
Cia. Pesquera "La Gaviota" S. A. . . . .	91
Cias. Unidas Vitarte, Victoria Inca, S. A. . . . .	91

# How to Use the Product Guide

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## Products

Products are alphabetically indexed on pages 7 through 28. The Index refers the reader to the pages in the Operating Unit sections, where product descriptions will be found. Index terms within parentheses, i.e. Acrylic Copolymer Emulsions (DAREX Coating Emulsions), Acid Resisting Grouts (Floor Materials); are the specific headings under which product listings will be found within the Operating Unit sections.

## Principal Trademarks and Trade Names

The principal trademarks and trade names of W. R. Grace & Co., its subsidiaries and its affiliated companies are listed alphabetically in the Index, together with their descriptive product names. Grace trademarks registered in the U.S. are indicated by the symbol ®; unregistered Grace trademarks are indicated by an asterisk (\*). Trademarks and trade names listed in the Index appear throughout the book in capital letters. The Operating Unit sections provide general product information, but do not usually list the trade names.

## Grace Operating Units

The Operating Units which manufacture or market products are indexed separately on pages 4 and 5.

## Plants and Sales Offices

At the beginning of each Operating Unit section, Plant and Sales Office facilities are listed alphabetically and numbered. To determine which of these facilities handles a specific product, note the number references shown directly under the product description; then refer to the corresponding numbers in the list of Plants and Sales Offices at the beginning of that particular Operating Unit section.

### *Example: Retarding Additives*

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

● 9 - 23 - 34 - 45  
▲ 73 - 99 - 162

Where the number references to Plants and Sales Offices apply to several products listed consecutively, they appear at the end of that product group.

---

### *Legend:*

● denotes number reference to Plant locations.  
▲ denotes number reference to Sales locations.

For additional information and detailed technical data, contact the appropriate operating unit directly or write W. R. Grace & Co., 7 Hanover Square, New York, New York 10005.

# INDEX

## A

	PAGE
A-612* Aluminum Etchant	79, 84
Abrasive Coatings (Technical Coatings)	62, 75, 103
Absorbent Dental Rolls	89
Absorbents, Gas	65, 78, 99
Accelerating and Retarding Admixtures, Concrete	61, 74, 96
ACE GRAYTONE® Printing Rollers	67
Acetates	
Amyl Acetate	96
Butyl Acetate	96
Ethyl Acetate	96
Glyceryl Triacetate (Plasticizers, Specialty)	51
Polyvinyl Acetate Resin	66, 101
Acetic Acid	96
Acetone	47
Acid and Corrosion-Resistant Coatings (Floor Materials)	62, 74, 99
(Technical Coatings)	62, 75, 103
(Maintenance Coatings)	87
ACIDEX® Corrosion and Acid, Resistant Coating (Technical Coatings)	62, 75, 103
Acid, Gas Absorbent (Gas Absorbents)	65, 78, 99
Acids	
Acetic Acid	96
Fatty—see also Polymerized Fatty Acids Below	49
Fumaric	49
Hydrochloric	99
Hydrofluosilicic	38
Phosphoric, Wet Process	38
Polymerized Fatty Acids	52
Sebacic	52
Stearic	103
Sulfuric	40
Acid Resisting Grouts (Floor Materials)	62, 74
Acoustical Ceiling Tile Coatings (Paint Emulsions)	66, 101
(Rigid Vinyl Films)	52
(Vermiculite)	69
Acoustical Plaster	69
Acoustical Plastic Coating (Vermiculite)	69
Acrylic Copolymer Emulsions (DAREX Coating Emulsions)	66
ACTEX® Concrete Floor Cleaner	83

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	PAGE
ACTIONATE® Concrete Set Accelerator (Specialty Products)	62, 74
ACTIVATE* Paint Stripping Accelerator (Paint Stripping)	79, 84
ACTUSOL® Industrial Cleaner	79, 84
Additive, Asphalt, Anti-Stripping (Specialty Products)	62, 74, 103
Additives and Pigments (SYLOID Micron-Sized Silicas)	55, 78
Additives for Portland Cement See Concrete and Cement Chemicals	
Adhesive Emulsions	65, 75, 96
Adhesive Paper Backings (Tape and Specialty Backings)	67, 80
Adhesives and Bonding Agents	
Adhesive Applicators	75
Automotive Adhesives	74
Building Maintenance Alphabetically Indexed	
Industrial Adhesives	75, 96, 100
Plastic Adhesives	75, 96
Printing Plate	67
Shoe Adhesives	75
Adipates (Plasticizers)	50, 66
Admixtures for Concrete and Mortar See Concrete and Cement Chemicals	
Adsorbents—See Desiccants	
ADVANCE® Machine Dishwashing Compound	79, 83
Advertising Balloons (Captive Balloons)	64, 80
A. E. DISPERSED BLACK® Colorant for Concrete and Mortar (Colorants)	61, 98
AERO-RAZE* Paint Stripping Compound	84
Aerosol Cup Products	
Compound Application Machinery	62, 75
Gasketing Compounds	63, 76
Aggregate, Lightweight for Plaster and Concrete	69
Agricultural Chemicals	
Ammonia and Ammonium Compounds Alphabetically Indexed	
Ammonium Nitrate Limestone (Calcium Ammonium Nitrate)	38
Animal Feeds, Feed Supplements and Premixes—Alphabetically Indexed	
Defoliants, Cotton	39
Diammonium Phosphate	39
Emulsifiers	92
Feeds—See Animal Feeds and Feed Supplements	
Fertilizers—Alphabetically Indexed	
Insecticide Base Oils	49
Magnesium Ammonium Phosphate (MAG AMP)	38

	PAGE
Agricultural Chemicals (cont'd)	
Magnesium Ammonium Potassium Phosphate (MAG AMP)	38
Metal Chelating Agents	70, 78
Nitrogen Solutions	39
Perlite Soil Conditioner and Seed Starter	68
Pesticides	39, 101
Phosphate Rock	39
Solvents	92
Sulfur	40
Superphosphate, Single	40
Superphosphate, Triple	40
Surfactant	37
Urea	40
Urea Solutions	40
Vermiculite Anti-Caking Agent, Chemical Carrier and Soil Conditioner	69
Agricultural Service Products	38
AHEAD* Defoamed Dishwashing Detergent	83
AIRALON® Air Entraining Cement Additive	62
Aircraft Cleaners	47, 79, 85, 87
Air Dryers	54
Air Entraining Additives, Cement	69, 74, 96
Air Entraining Admixtures, Concrete and Mortar	69, 74, 96
AIRMOLD* Products (Blow Molded Packaging)	42
Airplane Engine Lubricants (Jet Engine Lubricants)	49
ALBUM-UNLIMITED* Expandable Photo Album	50
Albums, Photographic	50
Alcohols	
Capryl	48
Cyclohexyl	48
Ethyl	48, 99
Isopropyl	49
Methyl	49
Methylcyclohexyl	49
Myrcistyl-cetyl	50
Alfalfa Seed	39
Algicides (Biocides)	79, 87
Aliphatic Esters (Esters, Aliphatic)	50
Aliphatic Solvents (Solvents)	52
Alkaline Powder Cleaner (Specialty Products)	62, 74, 103
ALKAMEEN® Return Line Corrosion Inhibitor	79, 87
ALKATROL* Return Line Corrosion Inhibitor	79, 87
ALKON* Electrolytic Cleaner	84
Alkylation Catalysts (Industrial Catalysts)	54, 78
All-Purpose Cleaners	83, 84, 85, 87, 88

	PAGE
Alum (Aluminum Sulfate)	37
Alumina Catalysts (Petroleum Catalysts)	54
Aluminum Brighteners	79, 83
Aluminum Etchants	79, 83
Aluminum Sulfate	37
Amines for Water Return Line Treatments	79, 87
Amino Acid Chelates (Chelating Agents)	70, 78
<b>Ammonia and Ammonium Compounds</b>	
Ammonium Nitrate	37
Ammonium Nitrate Limestone	37
Ammonium Silicofluoride	40
Ammonium Sulfate	37
Anhydrous Ammonia	37
Aqua Ammonia	37
Diammonium Phosphate	38
Amyl Acetate	96
Anhydrides	
Maleic Anhydride	49
Phthalic Anhydride	50, 101
Anhydrous Ammonia	37
Animal Feed Blending and Bulking Agents	38
Animal Feed Nutrient Carrier (Verxite)	69
<b>Animal Feeds and Supplements</b>	
Beef	37
Dairy	37
Poultry	39
Sheep	39
Swine	40
Animal Insemination	
Dairy and Beef	39
Animal Insemination Equipment	38
Anti-Adhesive Agents (Rubber Processing)	79, 83
Anti-Blocking Agents (SYLOID Micron-Sized Silicas)	55, 78
Anti-Caking Agents (SYLOID Micron-Sized Silicas)	55, 78
Anti-Caking Fertilizer Conditioner (Vermiculite)	69
Anti-Foam Treatments, Water (Boiler Water Treatments)	79, 87
Anti-Foulant, Water (Cooling Water Treatments)	79, 87
Anti-Fouling Paints (Marine Paints)	100
Antiseptic Products	79, 83, 88
Antiseptic Soaps and Detergents	79, 83, 88
Anti-Smog Systems (Industrial Catalysts)	54
Anti-Static Agent, PVC-Impregnated Conveyor Belts	47
Anti-Stripping Additive, Asphalt (Specialty Products)	62, 74
Appliance Insulation	68, 69

	PAGE
Appliances, Electric	99
Aprons, Disposable Plastic	89
Aqua Ammonia	37
AQUAFLOC® Coagulant Aid	87
AQUA-SERV®, DEARBORN	87
Architectural Paints	97
ARMORCOAT® Battery Separators	61, 74, 97
ARMORIB® Battery Separators	61, 74, 97
Aromatic Solvents	52, 97
Asphalt Hardboard (Specialty Products)	62, 75
Asphalt Joint Filler, Premolded	62, 75
Asphalt Plank, Bridge Decking Underlay (Bridge Products)	62, 75
Asphalt Weathercoated Hardboard, Masonry Moisture Barrier (Specialty Products)	62, 75
Atomic Energy Industrial Products See also Nuclear Fuel Materials	81
ATTACHE-VUE® 35mm Viewer	50
Attic Insulation	46
AUTO-KLEEN® Automotive and Accessory Cleaner (Transportation)	79, 85
Aviation Products (Jet Engine Lubricants)	49
<b>Automotive Products</b>	
Adhesives	74, 96
Automobile Cleaners (Transportation)	79, 85, 87
Battery Dry Charge Processing Equipment	61, 97
Battery Separators, Resin Impregnated	61, 74, 97
Battery Separators, Rubber Plate	97
Exhaust Catalysts (Industrial Catalysts)	54
Lacquers	97, 100
Maintenance Products	74
Sealers and Sealants	74
Shims, Battery (Battery Separators)	61, 74
Sound Deadeners	74
Underbody Coatings	74, 104
<b>B</b>	
Baby Food	93
Backings, Carpet and Rug See Rug Backing Products	
Backings—Pressure Sensitive Tape, Labels See Tape and Specialty Backings	
Bags, Shrinking	42, 77, 103
Bakery Products—See Food Products and Beverages	
Baking Industry Cleaners and Maintenance Products (Food Manufacturing- Processing)	79, 83, 84

	PAGE
Balloons, Advertising	64, 80
Balloons, Meteorological	64, 65, 80, 97
Balloons, Scientific	64, 65, 80, 97
Banana Paste	92
BAR-B-SORB® Vermiculite Base for Charcoal Cooking	69
BAR-CHAIRS® Reinforcing Steel Supports (Specialty Products)	62, 74, 103
Barium Carbonate	47
Barium Hydroxide	47
Barrel Finishing Products (Metal Working)	79, 84
Barrier Coating (DARACAN Inner Barrier Systems) (DARAN Paper Coating Latices)	63 65
BASEAL® Vinyl Waterstops	62, 75
Base Stocks for Tape and Labels See Tape and Specialty Backings	
Battery Dry Charge Process Equipment	61, 97
Battery Separators Resin Impregnated	61, 74, 97
Rubber Plate	97
BAYLOR® Bromegrass Seed	39
BBP-Butyl Benzyl Phthalate (Plasticizers, Phthalates)	51
BCA-Dibutoxyethyl Adipate (Plasticizers, Adipates)	50
BCP-Dibutoxyethyl Phthalate (Plasticizers, Phthalates)	51
BDP-Butyl Decyl Phthalate (Plasticizers, Phthalates)	51, 101
Beef Feeds, Feed Supplements and Premixes	37
Beef Semen	39
Beer (Miller High Life)	110
Beer Stabilizer (STABIFIX)	55
Beeswax	48
Belts, Industrial	100
Benzyl Chloride	48
Beverage and Brewing Industry Cleaners (Food Manufacturing- Processing)	79, 83, 84
Beverages—See Food Products	
BIG BUSTER® Popcorn (Seeds)	39
Binder, Casein—See Textile Finishes and Chemicals	
Binder, Pigment	66
BINDER-UNLIMITED® Binders	50
Leather	50
Plastic	50
Vinyl	50
Biocides—Bactericides	79, 87
Biscuits	93

	PAGE
Bituminous Mastic and Semi-Mastic Compounds (Waterproofing and Roofing Materials)	62, 75, 104
BLACK MAGIC® Printing Rollers	66
BLAIR* Bromegrass Seed	39
Blanket Insulation (Glass Fiber Insulation)	68
Blankets, Printing—See Printing and Graphic Arts Products	
BLAST* Steam Cleaner (Transportation)	79, 85
Bleaching Agents	48
Bleaching Powder	97
Blending Agent for Animal Feeds	69
BLO-CRETE* Vermiculite Aggregate for Air-Placed Concrete	69
Blow Molded Packaging	42, 77, 102
BLUE DOT* Polishing Pads (Rare Earths)	54
Board, Paper	95
Body Powder (Packaging Desiccants)	54
Boiler Water Treatments	79, 87
BOL-BOY® Bowl Cleanser	79, 83
Bonding Agents	
Bonding Agents, Masonry and Concrete	61, 74, 96
Bonding Agent, Plaster and Stucco	61, 74, 96
Bonding and Patching Compound, Epoxy (Specialty Products)	62, 74, 103
Bond Paper	95
BONDITITE* Bridge Joint Sealer	62, 75
Book Liners, Case and Signature (Coating Bases)	66
BOP-Butyl Octyl Phthalate (Plasticizers, Phthalates)	51, 101
Bottle Cap and Crown Sealing Compounds	63, 75, 98
Bottles, Polyethylene	97
Boxes and Cartons	
Boxes, Folding	95
Boxes, Plastic, Blow Molded (Blow Molded Packaging)	42, 77, 102
Corrugated Cartons	95
BR-5512* Alkaline Cleaner	83
BRIEF/HOLDERS* Portfolios	50
Bridge Products	
Maintenance Coatings	79, 87
Neoprene Pads and Asphalt Plank	62, 75
Brighteners	
Barrel Finishing	79, 84
Etchants for Aluminum	79, 84
Bristol Board	95
BRITEN ALL® All-Purpose Detergent	87

	PAGE
BUDG-ETTE* Examination Table	
Paper Rolls	89
Building Maintenance Products	
Adhesives, Building Maintenance	61, 62, 74, 75, 96
Bonding Agents—Alphabetically Indexed	
Caulks and Sealants Alphabetically Indexed	
Cleaners—Alphabetically Indexed	
Coatings—Alphabetically Indexed	
Curing Compounds, Concrete—Alphabetically Indexed	
Enamel, Concrete Floor (Floor Materials)	62, 74
Finish, Concrete Block (Technical Coatings)	62, 75, 104
Floor Materials—Alphabetically Indexed	
Germicidal Detergents	79, 83, 88
Hardeners for Masonry Floors (Floor Materials)	62, 74, 99
(Specialty Products)	62, 74, 103
Insulation, Loose Fill, Blanket and Molded Foam Board Types	68, 69
Laminates	68, 100
Membrane Fabrics (Waterproofing and Roofing Materials)	62, 75, 104
Paints—Alphabetically Indexed	
Patch, Floor (Floor Materials)	62, 74, 99
Primers—Alphabetically Indexed	
Roof Coatings, Asphalt (Waterproofing and Roofing Materials)	62, 75, 104
Sealers, Floor (Floor Materials)	62, 74, 99
Sealers, Wall (Specialty Products)	62, 74, 103
Sealing Strips (Joint Sealing Compounds)	62, 75
Thinner, Paint (Solvents)	52, 97, 104
Topping, Floor (Floor Materials)	62, 74, 99
Bulking Agents for Animal and Poultry Feeds (Verxite)	69
Butadiene-Styrene Copolymer Emulsions (DAREX Coating Emulsions)	66
Butadiene-Styrene Latex (DAREX Carpet and Textile Latices)	66
Butadiene-Styrene Rubber Reinforcing Resin (DAREX Copolymer Resins)	66, 78
Butter, Dairy	109
Butyl Acetate	96
Butyl Benzyl Phthalate (Plasticizers, Phthalates)	51
Butyl Decyl Phthalate (Plasticizers, Phthalates)	51
Butyl Elastomer Caulking and Sealing Compound (Joint Sealing Compound)	62, 75
Butyl Octyl Phthalate (Plasticizers, Phthalates)	51, 101

## C

	PAGE
C-1102* Aircraft Exterior Cleaner	84
Calcium Ammonium Nitrate (Ammonium Nitrate Limestone)	37
Calcium Chloride	97
Candelilla Wax	48
Candies	93, 107
Cane Fiber Joint Filler, Premolded	62, 75
CAN KLOR* Dairy Can Cleaner	79, 84
Canned Foods	93, 109
Canning Industry Cleaners (Food Manufacturing)	79, 83, 84
Can Sealing Compounds	62, 75, 97
CANSURFASS® Wetting Agents	61, 104
CANT STRIP* Premolded Joint Filler	62, 75
Canvas, Waterproof	104
Cap and Lid Gasketing Compounds	64, 76, 97
Capryl Alcohol	48
Captive Balloons	64, 80
CARBOCERA Wax*	52
Carbon Dioxide Absorbent (Gas Absorbents)	65, 78, 99
Carboxylated Butadiene-Styrene Latices (DAREX Carpet and Textile Latices)	66
CARBUREX® Carburetor Cleaner	79, 85
Carnauba Wax	48
Carpet Backings—See Rug Backing Products	
Carriers, Agricultural Chemical	69
Carriers, Animal Feed Supplement (Verxite)	69
Carriers, Catalyst (Petroleum Catalysts)	54
Carriers, Plant Nutrient	69
Cartons, Corrugated	95
Casings, Food Products	42, 77, 97
Catalysts, Industrial	
Alkylation	54, 78
Automotive Exhaust	54
Custom	54, 78
Dehydration	54, 78
Dehydrogenation	54, 78
Diesel Exhaust	54
Filter Systems (Gas Absorbents)	65, 78, 99
Gas Scrubbing (Gas Absorbents)	65, 78, 99
Hydrocarbon, Combustion	54
Hydrogenation	54, 78
Organic Synthesis	54
Oxidation	54, 78
Polymerization	54, 78
RANEY Nickel	54, 78

	PAGE
<b>Catalysts, Petroleum Cracking</b>	34, 78, 98
Combustion Catalysts and Fuel Oil Additives	
(Miscellaneous Products)	79, 87
High Alumina	54
Low Alumina	54
Semi-Synthetic	54
Zeolite-type	54
<b>Catalysts, Specialty (Gas Absorbents)</b>	65, 78, 99
<b>Catalyst Supports</b>	
Alumina	54
Mullite Pellets	54, 78
Silica Gel	54, 78
<b>Cattle Feeds</b>	37, 92
<b>Caulks and Sealants</b>	
Glazing Compound	62
Joint Sealing Compounds	62, 75, 98
Polysulfide Sealants	62, 75, 98
Primers—Alphabetically Indexed	
Rubber-Base Sealants	62, 75, 98
<b>Caustic Soda</b>	98
<b>Ceiling Balloons</b>	64, 80
<b>Ceiling Tile Coatings (Paint Emulsions)</b>	66, 101
<b>Cellophane</b>	44, 77
<b>Cellophane Plasticizers (Phthalates)</b>	51, 101
<b>Cello Wax Laminates</b>	44
<b>CELL-U-CLOTH® Disposable Examination Gowns</b>	89
<b>CEMENTONE® Sponge Rubber Premolded Joint Filler</b>	62, 75
<b>Cement, Portland</b>	102
<b>Cement Products—See Concrete and Cement Chemicals</b>	
<b>Cements</b>	
Can Side Seam Cements	64, 103
Composite Can Cements—Water Base and Hot Melt	63
Dopes, Metal Seam Container	64, 103
Organic Solders	64
<b>CERAX® Wax</b>	52
<b>Cereals</b>	93
<b>Ceresine Wax</b>	48
<b>Cerium Compounds—Hydrate, Oxide, Sulfate (Rare Earths)</b>	54
<b>CEROFLEX® Wax</b>	52
<b>Charcoal, Activated—See Desiccants and Adsorbents</b>	
<b>Cheese (Dairy Products)</b>	109
<b>Chelating Agents</b>	70, 78
<b>Chemical Carriers (Vermiculite)</b>	69
<b>Chemical Specialty Products</b>	
See Specific Product Listings (e.g.—Battery Separators, Bonding Agents, Water Treatments, etc.)	

	PAGE
<b>Chewing Gum</b>	107
<b>Chip Dips</b>	109
<b>Chips</b>	110
<b>Chlor-Alkali Products</b>	
Bleaching Powder	97
Calcium Chloride	97
Caustic Soda	98
Chlorine	98
Industrial Salt	100
<b>Chlorinated Solvents (Solvents)</b>	52
<b>Chlorine</b>	98
<b>Chocolate Confectionery Products</b>	93, 107
<b>Chocolate Liquor</b>	107
<b>CHROMETS® Corrosion Inhibitor (Cooling Water Treatments)</b>	79, 87
<b>Clay Desiccants—See Desiccants and Adsorbents</b>	
<b>Cleaners and Disinfectants</b>	
Aircraft Cleaners (Transportation)	47, 79, 85, 87
Alkaline Powder Cleaner (Specialty Products)	62, 74
All-Purpose Cleaner	88
Aluminum Brightener (Etchants for Aluminum)	79, 84
Animal Quarters and Zoos	88
Automotive Cleaners (Transportation)	79, 85, 87
Baking Industry Cleaners	79, 83
Beverage and Brewing Industry Cleaners	79, 83
Canning Industry Cleaners	79, 84
Dairy Cleaners	79, 84
Detergents, Dishwashing	79, 84
Detergents, Germicidal	79, 83, 88
Diesel Engine Sludge Remover (Cleaning)	79, 85, 87
Dishwashing and Kitchen Sanitation Products	79, 83
Disinfectants	79, 83, 88
Electrical Parts Cleaners (Metal-Working)	79, 84
Electrolytic Cleaners (Cleaning Prior to Electroplating)	79, 84
Floor Cleaners	62, 79, 83, 84, 85, 87, 88
Food Manufacturing-Processing Cleaners	79, 83, 84
High Alkaline Cleaner (Paper Mill Products)	79, 84
Immersion Tank Cleaner	79, 84
Industrial Cleaners (Metal-Working)	79, 84
Institutional Cleaners	79, 83, 88
Kitchen Housekeeping Products	79, 83
Machine Cleaning Agents	79, 83, 84
Meat Processing Industry Cleaners	79, 84
Metal Cleaners	79, 84
Paint Spray Booth Maintenance Products	79, 84
Paint Stripping Compounds	79, 84
Paper Mill Felt Cleaner	79, 84

	PAGE
<b>Cleaners and Disinfectants (cont'd)</b>	
Petroleum Refinery Cleaners	79, 84
Plastic-China Cleaner (Pre-Soaking)	79, 83
Pot and Pan Cleaner	79, 83
Potato Chip Industry Cleaners	79, 84
Poultry House and Processing Plants	79, 84, 88
Radiator Cleaner (Transportation)	79, 85, 87
Railroad Cleaners (Transportation)	79, 85, 87
Rinse Additives (Dishwashing and Kitchen Sanitation)	79, 83
Rug Cleaner	88
Sanitizer, Glass Washing (Dishwashing and Kitchen Sanitation)	79, 83
Sanitizers, Hospital and Restaurant (Dishwashing and Kitchen Sanitation)	79, 83, 88
Soaps	79, 83, 88
Solvent Cleaners	79, 83, 87
Steam Cleaners	79, 87
Surgical Soaps, Detergents	79, 83, 88
Transportation Cleaners	79, 85, 87
<b>Cleaning Equipment—See Equipment</b>	
<b>CLEAR FILMITE® Spray Booth Compound</b>	79, 85
<b>Clip Applicators (Flexible Packaging Equipment)</b>	42, 73, 99
<b>Clover Seed</b>	39
<b>"Clupak" Extensible Paper (Kraft Paper)</b>	96
<b>Coal Tar Products</b>	
Creosotes	98
Enamel	98
Pitch	101
<b>Coated Papers (Tape and Specialty Backings)</b>	67, 80
<b>Coating Bases, Artificial Leather</b>	66
<b>Coating Machinery, Composite Can Flange</b>	63
<b>Coatings, Chemical</b>	
Abrasive Coatings (Technical Coatings)	62, 75, 103
Automobile Underbody Coatings	74, 104
Ceiling Tile Coatings (Paint Emulsions)	66, 101
Collapsible Tube Coatings (Thermoplastic Coatings)	64, 76, 104
Composite Can Label Coatings	63
Conversion Coatings (Production Coatings)	87
Corrosion and Acid Resistant Coatings (Floor Materials)	62, 74
(Technical Coatings)	62, 75, 103
(Maintenance Coatings)	87
DEARBORN Protective Coatings Emulsions—See Paint Chemicals	
Epoxy Coatings (Technical Coatings)	62, 74, 103
(Pipeline Coatings)	87
Extrusion Coatings	44

	PAGE
<b>Coatings, Chemical (cont'd)</b>	
Film Coatings (DARAN Paper Coating Latices)	65
Flange Coatings	63
Floor Coatings, Polyurethane (Floor Materials)	62, 74
Heat Resistant Coatings	87
Heavy Duty Coatings (Technical Coatings)	62, 75, 103
Maintenance Coatings	87
Paints—Alphabetically Indexed	
Paint Spray Booth Coatings	79, 84
Paper Coatings See Paper and Paper Products	
Pipeline Coatings— Alphabetically Indexed	
Railroad Bridge Coatings (Maintenance Coatings)	87
Roof Coatings (Waterproofing and Roofing Materials)	62, 75, 104
Thermoplastic Coatings	64, 76, 104
<b>Coatings, Food</b>	
Chocolate Coatings	107
Confectioner's Coatings	107
Ice Cream Coatings	107
Cocoa Butter	107
Cocoa Powder	93, 107
Cocoyl Sarcosine Acid (Surfactants)	70
Coffee	107
Cold Storage Insulation	68, 69
Collapsible Tube Coatings (Thermoplastic Coatings)	64, 76, 104
Colorants	61, 74, 98
COLORUNDUM® Colorant, Concrete	61, 74
COMBAT® Heavy Duty Dishmachine Compound	83
Combustion Catalysts and Fuel Oil Additives (Miscellaneous Products)	87
Composite Can Products	
Barrier Coatings	63
Cements, Composite Can	63
DARACAN Inner Barrier System	63
Flange Coatings and Coating Machinery	63
Label Coatings, Composite Can	63
Sealing Compounds, Composite Can	63
Compound Application and Drying Equipment	63, 75, 98
Compound, Flexible Printing Plate	67
Compounds, Container Sealing	63, 75
Concentrated COLORGLAZE® Wax— Tinted Masonry Wax	62, 74, 99
Concrete Aggregate (Perlite)	68
(Vermiculite)	69
<b>Concrete and Cement Chemicals</b>	
Additives, Cement, Air Entraining	62, 75
Additives, Cement, Retarder	62, 75

	PAGE
<b>Concrete and Cement Chemicals (cont'd)</b>	
Admixtures, Accelerating and Retarding, Concrete	61, 74, 96
Admixtures, Air Entraining, Concrete and Mortar	61, 74
Admixtures, Water Reducing, Concrete	61, 74, 96
Admixture, Water Repellent	61, 74
Colorants	61, 74
Curing Compound, Concrete (Specialty Products)	62, 74
Curing Compound, Hardener and Sealer, Concrete (Specialty Products)	62, 74
Densifiers and Water Repellents	61, 74
Floor Cleaners	62, 79, 83 84, 85, 87, 88
Grinding Aid and Pack Set Inhibitor, Cement	62, 74, 94
Grinding Aid, Raw Materials	62, 74
Hardener, Concrete Floor (Silicofluorides)	40
HORNSTONE Materials (Floor Materials) (Specialty Products)	62, 74, 99 62, 74
Plasticizer, Concrete	62, 74, 96
Retarder, Cement Set	62, 74, 96
Retarder, Concrete Surface (Specialty Products)	62, 74
Confectioner's Coating	107
Confectionery Products, Chocolate and Non-Chocolate	107
<b>Construction Materials</b>	
Compound, Bituminous Mastic and Semi-Mastic (Waterproofing and Roofing Materials)	62, 75, 104
Curing Compounds, Base	62, 74, 96
Dampproofing (Waterproofing and Roofing Materials)	62, 75, 104
Glazing Compounds (Caulks and Sealants)	62, 74, 98
Grouting Materials (Floor Materials)	62, 74, 99
Insulation, Loose-Fill	69
Joint Fillers, Premolded	62, 75
Masonry Products (Specialty Products)	62, 74, 103
Patching Compounds (Floor Materials)	62, 74, 99
Plastic Supports, Concrete, Reinforcement, Steel (Specialty Products)	62, 74, 103
Plywood Form Coating (Specialty Products)	62, 74, 103
Portland Cement	102
Sealants—See Caulks and Sealants	
Surfacing Material, Bridge and Deck (Bridge Products)	62, 75
Topping Compounds, Floor (Floor Materials)	62, 74, 99
Waterproofing and Roofing Materials	62, 75, 104
Vinyl Film and Sheeting, Rigid	52, 102

	PAGE
<b>Container Products</b>	
Aerosol Valve Cup Gasketing Compounds	62, 75
Can Sealing Compounds	62, 75
Cap and Lid Gasketing Compounds	64, 76, 97
Composite Can Cements	63
Composite Can Label Coatings	63
Composite Can Sealing Compounds	63
Compound Application and Drying Equipment	63, 75, 98
Crown Sealing Compounds	63, 75, 98
DARACAN Inner Barrier System	63
Dispersing Solvents	63
Drawing Emulsions and Drawing Lubricants	63, 99
Flange Coating Machinery	63
Flange Coatings	63
Galvanizing Blanket Crystals	63
Industrial Gasketing Compounds	63, 76
Jar Cap and Lid Gasketing Compounds	64, 76, 97
Lacquers	76
Liquid Fluxes	64
Non-Web Compounds	64
Organic Solders	64, 76
Pail and Drum Sealing Compounds	64, 76
Seam Dopes	64, 103
Side Seam Cements	64, 103
Soldering Crystals	64, 76, 103
Thermoplastic Coatings	64, 76, 104
Wetting Agents	64, 104
CONTROL* Sanitizer, Hospitals and Restaurants	83
Convenience Foods	109
Conversion Coatings (Production Coatings)	87
Conveyor Lubricants, Chain (Beverage and Brewing Industries)	79, 83
Cookie Drops	107
Cookies	93
Cooling Water Treatments	79, 87
Copolymer Resins	66, 78, 98
Copper	94
CORDURO® Rib Coated Vinyl Binders	50
CORNELOWAX® Wax	52
CORNOX® Wax—For Polish Industry	52
CORNOX® Insecticides, Fungicides, Herbicides (Pesticides)	39
Corrosion and Acid Resistant Coatings (Floor Materials)	62, 74
(Maintenance Coatings)	79, 87
(Technical Coatings)	62, 75, 103
Corrosion Inhibitors (Boiler Water Treatments)	79, 87
(Chelating Agents)	70, 78

	PAGE
Corrosion Inhibitors (cont'd)	
(Cooling Water Treatments)	79, 87
(Return Line Treatments)	79, 87
Corrugated Cartons	95
Corrugated Rigid Vinyl Sheet	76
Cotton Defoliant	38
Cotton Seed (Seeds)	39
Coumarone—Indene Resins	98
Couverture, Chocolate Coating	107
Cover Compounds, Drum and Pail	64, 76, 101
CP—Dicyclohexyl Phthalate (Plasticizers, Phthalates)	51, 101
Cracking Catalysts	
See Catalysts, Petroleum	
Cream, Dairy	109
Creosotes	98
CRETE-FIX® Floor Patching and Resurfacing Material	62, 74
Crossbottom Bags	95
Crown Sealing Compounds	63, 75, 98
Crude Oil	112
Cryogenic Insulation	68, 69
CRYOVAC® Flexible Packaging	
Polyvinyl Chloride V and VPM Films	77
Shrinking L Bags	42, 77, 103
Shrinking S Bags	42, 77, 103
Shrinking Polyethylene D Film	42
Shrinking Polyethylene L Film	42, 77
Shrinking Polyethylene XL Film	77
Shrinking Polypropylene J Film	42
Shrinking Polypropylene Y Film	42, 77
Shrinking Polypropylene YH Film	42
Shrinking Polyvinylidene Chloride S Film	42, 77
CRYSTAL BASE® Hand Soap	84
Crystals	
Galvanizing Blanket	63
Roll Salts, Can Soldering (Soldering Crystals)	64, 76, 103
Cups, Drinking, Disposable	89
Curing Compounds	
Concrete Curing Compounds (Specialty Products)	62, 74, 103
Concrete Hardener and Sealer (Floor Materials)	62, 74, 99
Curing Agents—Polyester Resin	48
Custom Catalysts (Industrial Catalysts)	54, 78
Custom Flexible Packaging Lines (Equipment)	42, 77, 99
Cutting Bits	94
Cutting Fluids	79, 84
CYCLE* Tumbling Compound	83
Cyclic Ketone Resins	48
Cyclohexane	48
Cyclohexyl Alcohol	48

## D

	PAGE
DAIR* Dairy Cleaner	79, 63
Dairy Cattle Feeds	37, 92
Dairy Cleaners	79, 63
Dairy Products	109
Dairy Semen	39
Dampproofing Materials (Waterproofing and Roofing Materials)	62, 75, 104
DARACAN®	
High Barrier Label Stock (Composite Can Label Coating)	63
Inner Barrier System	63
DARACEL* Rubber Plate Battery Separators	97
DARACONE® Silicone Dampproofing Compound (Waterproofing and Roofing Materials)	62, 75, 104
DARAFLOW® Industrial Gasketing Compound for Automobile and Industrial Parts	63, 76
DARAK® Battery Separators	61, 74, 97
DARAK® HURRICANE Battery Dry Charge Process Equipment	61, 74, 97
DARAKOTE® Asphalt Antistripping Additive (Specialty Products)	62, 74
DARALITE® Air Entraining Additive for Lightweight Concrete	62
DARAMID* Polyamide Resin	102
DARAN® Paper Coating Latices	65
DARASEAL® Cap and Crown Sealing Compounds	63, 75, 98
DARATAK* Adhesive Emulsions	65, 96
DARATARD® Admixture, Concrete Set Retarder	61, 74
DARAVAIR® Air Entraining Admixture for Mass Concrete	61, 74
DARAWELD-C® Masonry Bonding Agent	61, 74, 96
DARAWELD®-PBA Plaster Bonding Agent	61, 74, 96
DAREX AEA® Air Entraining Admixture for Concrete	61, 74, 96
DAREX CM® Air Entraining Cement Mill Additive	61, 74, 96
DAREX®	
Can Sealing Compounds	62, 75, 97
Cap Gasketing Compounds	63, 76, 97
Carpet and Textile Latices	66
Coating Bases	65
Coating Emulsions	66
Composite Can Cements	63
Compound Application Machines	63, 75, 98
Copolymer Resins	66, 78, 98
Crown Gasketing Compounds	63, 75

	PAGE
DAREX® (cont'd)	
Dibutyl Fumarate (Plasticizers)	66
Dispersing Solvents	63
Drawing Emulsions	63, 99
Drum Gasketing Compounds	63, 76, 101
Flange Coatings	63
Galvanizing Blanket Crystals	63
Home Canning Lid Gasketing Compound	63, 76, 97
Industrial Gasketing Compounds	63, 76
Liquid Flux	64
Meteorological Balloons	64, 80, 97
ORBITAL FIBERFLEXOR (Textile Finishing Equipment)	67, 79, 103
Pail Gasketing Compound	63, 76, 101
Paint Emulsions	66, 101
Pigment Binder	66
Plasticizers	66
Seam Dopes	64, 103
Side Seam Cements	64, 103
Soldering Crystals	64, 103
Textile Printing Blankets	67, 79, 103
Textile Washers (Textile Finishing Equipment)	67, 79, 103
Thermoplastic Coatings	64, 76, 104
DAVCO® Granulated Fertilizers (Mixed Fertilizers)	38
DAV-GRO® Water Soluble Fertilizer	37
DAWBAC® Polypropylene Fabric Rug Backing	43
DAXAD® Dispersing Agents	66, 78
DAXENE* Industrial Gasketing Compound	63, 76
Printing Plate Compound	67
DAYTON* Orchard Grass Seed	39
DBF* Dibutyl Fumarate	66
DBM* Dibutyl Maleate	66
DBP Dibutyl Phthalate (Plasticizers, Phthalates)	51, 101
DBS Dibutyl Sebacate (Plasticizers, Sebacates)	51
D-CARB* Carbon Remover	79, 84
DCHP Dicyclohexyl Phthalate (Plasticizers, Phthalates)	51, 101
DCP Dicapryl Phthalate (Plasticizers, Phthalates)	51, 101
Deadeners, Sound	74
DEARBOLINE® Cleaning Fluid	87
DEARBORN® Boiler Water and Cooling Water Treatments	87
DEARCIDE® Algicides (Biocides)	87
DEARCLAD® Polymerized Protective Coating (Pipeline Coatings)	87
DEARSOL® Industrial Cleaners (Miscellaneous Products)	87
Decyl Tridecyl Phthalates (Plasticizers, Phthalates)	51, 101
Defoliant, Cotton	38

	PAGE		PAGE		PAGE
Degassing Agents (SYLOID Micron-Sized Silicas)	55, 78	Diammonium Phosphate	38	Di-methoxyethyl Phthalate (Plasticizers, Phthalates)	51, 101
DEHYDRATINE® Dampproofing Compound	62, 74	DIBA Di-isobutyl Adipate (Plasticizers, Adipates)	50	Dimethyl Adipate (Plasticizers, Adipates)	50
DEHYDRATINE® 80 Concrete and Mortar Accelerating Admixture	61, 74, 104	DIBP Di-isobutyl Phthalate (Plasticizers, Phthalates)	51, 101	Dimethyl Phthalate (Plasticizers, Phthalates)	51, 101
Dehydrating Agents—See Desiccants		Dibutoxyethyl Adipate (Plasticizers, Adipates)	50	Di-methylcyclohexyl Phthalate (Plasticizers, Phthalates)	51, 101
Dehydration Catalysts (Industrial Catalysts)	54, 78	Dibutoxyethyl Phthalate (Plasticizers, Phthalates)	51, 101	Dimethyl Sebacate (Plasticizers, Sebacates)	51
Dehydrogenation Catalysts (Industrial Catalysts)	54, 78	Dibutyl Fumarate (Plasticizers, Fumarates) (DAREX Plasticizers)	50, 66	Dinonyl Adipate (Plasticizers, Adipates)	50
DEKOTE® Masonry Floor Curing Agent (Specialty Products)	62, 74, 103	Dibutyl Maleate (Plasticizers, Maleates) (DAREX Plasticizers)	50, 66	DIOA Di-isooctyl Adipate (Plasticizers, Adipates)	50
DEM Diethyl Maleate (Plasticizers, Maleates)	50	Dibutyl Phthalate (Plasticizers, Phthalates)	51, 101	Di-n-octyl-n-decyl Adipate (Plasticizers, Adipates)	50
Densifiers and Water Repellents, Concrete	61, 74, 98	Dibutyl Phthalate (Plasticizers, Phthalates)	51, 101	Di-n-octyl-n-decyl Phthalate (Plasticizers, Phthalates)	51, 101
Dental Alloys	94	Dibutyl Sebacate (Plasticizers, Sebacates)	50	Di-octyl Adipate (Plasticizers, Adipates)	50
Dental Supplies	89	DICA® Acid Cleaning Compound	79, 84	Di-octyl Fumarate (Plasticizers, Fumarates)	50
DEP Diethyl Phthalate (Plasticizers, Phthalates)	51, 101	Dicapryl Phthalate (Plasticizers, Phthalates)	51, 101	Di-octyl Iso-Phthalate (Plasticizers, Iso-Phthalates)	50
Deposit Inhibitors (Water Treatments)	79, 87	Dicyclohexyl Phthalate (Plasticizers, Phthalates)	51, 101	Di-octyl Maleate (Plasticizers, Maleates)	50
<b>Desiccants and Adsorbents</b>		Diesel Engine Sludge Remover (Cleaners)	79, 85, 87	Di-octyl Phthalate (Plasticizers, Phthalates)	51, 101
Body Powder	54	Diesel Exhaust Catalysts (Industrial Catalysts)	54, 78	Di-octyl Sebacate (Plasticizers, Sebacates)	51
Molecular Sieve Desiccants	54, 78	Diethanoglycine Sodium Salt (Chelating Agents)	70, 78	DIOF Di-isooctyl Fumarate (Plasticizers, Fumarates)	50
Packaging Desiccants	54, 78	Diethylenetriaminepentaacetic Acid, Pentasodium Salt (Chelating Agents)	70, 78	DIOIP Di-isooctyl Iso-Phthalate (Plasticizers, Iso-Phthalates)	50
Silica Gel	54, 78	Diethyl Maleate (Plasticizers, Maleates)	50	DIOM Di-isooctyl Maleate (Plasticizers, Maleates)	50
STABIFIX Beer Stabilizer	55	Diethyl Phthalate (Plasticizers, Phthalates)	51, 101	DIOP Di-isooctyl Phthalate (Plasticizers, Phthalates)	51, 101
SYLOID Micron-Sized Silicas	55, 78	Di-isobutyl Adipate (Plasticizers, Adipates)	50	DIOS Di-isooctyl Sebacate (Plasticizers, Sebacates)	51
TEL-TALE Indicating Desiccants (Packaging Desiccants)	54, 78	Di-isobutyl Phthalate (Plasticizers, Phthalates)	51, 101	Dips, Chip	109
Desserts—See Food Products and Beverages		Di-isodecyl Adipate (Plasticizers, Adipates)	50	Dips, Slab and Sheet (Rubber Processing)	79, 84
Detergent Manufacturing		Di-isodecyl Phthalate (Plasticizers, Phthalates)	51, 101	Dishwashing and Kitchen Sanitation Products	79, 83, 98
Water Softening Agents (Chelating Agents)	70, 78	Di-isohexyl Phthalate (Plasticizers, Phthalates)	51, 101	Disinfectants	
Detergents (Food Manufacturing-Processing) (Dishwashing and Kitchen Sanitation)	79, 83, 98	Di-isooctyl Adipate (Plasticizers, Adipates)	50	Biocides	79, 87
DEWAXER® Floor Wax and Finish Stripper	88	Di-isooctyl Fumarate (Plasticizers, Fumarates)	50	Germicides	79, 83, 88
DHP Di-isohexyl Phthalate (Plasticizers, Phthalates)	51, 101	Di-isooctyl Maleate (Plasticizers, Maleates)	50	Hydrofluosilicic Acid Soaps, Surgical	38, 79, 88
Di-2-ethylhexyl Adipate (Plasticizers, Adipates)	50	Di-isooctyl Phthalate (Plasticizers, Phthalates)	51, 101	Dispensing Equipment for Soaps, Cleaners and Maintenance Products	79, 83, 88
Di-2-ethylhexyl Fumarate (Plasticizers, Fumarates)	50	Di-isooctyl Sebacate (Plasticizers, Sebacates)	51	Dispersants (Water Treatments)	79, 87
Di-2-ethylhexyl Iso-Phthalate (Plasticizers, Iso-Phthalates)	50	DI 610® Phthalate (Plasticizers, Phthalates)	51, 101	Dispersing Agents	66, 78, 98
Di-2-ethylhexyl Maleate (Plasticizers, Maleates)	50	DI 810® Phthalate (Plasticizers, Phthalates)	51, 101	Dispersing Solvents, Sealing Compound	63
Di-2-ethylhexyl Phthalate (Plasticizers, Phthalates)	51, 101			Disposable Professional Products	89
Di-2-ethylhexyl Sebacate (Plasticizers, Sebacates)	51			Di-tridecyl Maleate (Plasticizers, Maleates)	50

	PAGE
Di-tridecyl Phthalate (Plasticizers, Phthalates)	51, 101
D-LITE® Hand Dishwashing Compound	79, 83
DLP® Ribbon Monofilaments and Multifilaments	43
DMA Dimethyl Adipate (Plasticizers, Adipates)	50
DMCHP Di-methylcyclohexyl Phthalate (Plasticizers, Phthalates)	51, 101
DMP Dimethyl Phthalate (Plasticizers, Phthalates)	51, 101
DMS Dimethyl Sebacate (Plasticizers, Sebacates)	51
DNA Dinonyl Adipate (Plasticizers, Adipates)	50
DNODA Di-n-octyl n-decyl Adipate (Plasticizers, Adipates)	50
DNODP Di-n-octyl n-decyl Phthalate (Plasticizers, Phthalates)	51, 101
DOA Di-2-ethylhexyl Adipate (Plasticizers, Adipates)	50
DOA Di-octyl Adipate (Plasticizers, Adipates)	50
DOF Di-2-ethylhexyl Fumarate (Plasticizers, Fumarates)	50
DOF Di-octyl Fumarate (Plasticizers, Fumarates)	50
DOM Di-2-ethylhexyl Maleate (Plasticizers, Maleates)	50
DOM Di-octyl Maleate (Plasticizers, Maleates)	50
DONUTS® Reinforcing Bar Spacers (Specialty Products)	62, 74, 103
DOP Di-2-ethylhexyl Phthalate (Plasticizers, Phthalates)	51, 101
DOP Di-octyl Phthalate (Plasticizers, Phthalates)	51, 101
Dopes, Seam, Metal Container	64, 103
DOS Di-2-ethylhexyl Sebacate (Plasticizers, Sebacates)	51
DOS Di-octyl Sebacate (Plasticizers, Sebacates)	51
Drain Cleaner—See Cleaners	
Drawing Emulsions and Drawing Lubricants	63, 99
Dressings and Sauces	94, 110
DRI-DIE® Insecticides (Pesticides)	39
DRI-IT® Rinse Additive	79, 83
Drinking Cups, Disposable	89
DRI-N-TITE® Roof Coatings (Waterproofing and Roofing Materials)	62, 75, 104
DRI-PAX® Packaging Desiccants	54, 78
Drum Cover Gasketing Compounds	64, 76, 101
Drum Sealing Compounds	64, 76, 101

	PAGE
Dry Charge Equipment, Battery Process	61, 74, 97
Dryers, Sealing Compound (Compound Application and Drying Equipment)	63, 75, 98
Dryers, Textile Print Blanket (Textile Finishing Equipment)	67, 79, 103
Drying and Dehydrating Agents – See Desiccants and Adsorbents	
D-SMUT® Acid Aluminum Brightener	79, 84
DTDM Di-tridecyl Maleate (Plasticizers, Maleates)	50
DTDP Di-tridecyl Phthalate (Plasticizers, Phthalates)	51, 101
DTP Decyl Tridecyl Phthalate (Plasticizers, Phthalates)	51, 101
DuBOISE Carpet Shampoo*	83
DuBOISE Grease & Oils	85
DuBOISE 666* Liquid Boiler Water Treatment	85
DuBRITE® Aluminum Brightener	79, 84
DuDRI® Rinse Additive	79, 83
DuFOME® Dishwasher, Hand, Liquid	79, 83
DuKLOR® Food Plant Bactericide	79, 83
DUOCREX® Wood and Concrete Sealer (Floor Materials)	62, 74, 99
DURAFAX® Concrete Floor Hardener (Floor Materials)	62, 74, 99
DURAFLO® Epoxy Floor Coatings (Floor Materials)	62, 74, 99
DURA-GUARD® Metal Cleaner and Phosphatizer	79, 84
DURA-LOOB® Conveyor Lubricant	79, 84
DURA-TECH® Polystyrene Molded Foam Board and Manufacturing Equipment	68
DURATOP® Concrete Floor Hardener (Floor Materials)	62, 74, 99
DURAWAX® Synthetic Wax	52
DUROC® Printing Rollers	66
DUROC® Terrazzo Seal	87
DUROGRAVURE® Printing Rollers	66
DX® Printing Rollers	66
DYFOAM® Polystyrene Molded Foam Board	68
Cold Storage Insulation	68
Farm Building Insulation	68
Flotation Billets	68
MBI*—Metal Building Insulation	68
NOISE GUARD® Sound Conditioning for Walls, Floors and Ceilings	68
Perimeter Insulation	68
Polystyrene Molded Foam Board	68
SUPER-BOARD® Polystyrene Molded Foam Board	68
DYNACREX® Polyurethane Floor Coatings (Floor Materials)	62, 74, 99
DYNA-SPREX® Immersion Tank Cleaner (Steam Cleaner)	79, 85
Dysprosium Oxide (Rare Earths)	54

## E

	PAGE
ECONO-BASE® Conveyor Lubricant	79, 84
ECONO-FILL® Loosefill Attic Insulation (Vermiculite)	69
Edible Oils	93, 109
EDTA (Chelating Agents)	70, 78
Eggs (Dairy Products)	109
ELECT® Electrolytic Cleaner	79, 84
Electrical Parts Cleaners (Metal-Working)	79, 84
Electric Appliances	99
Electrolytic Cleaners (Cleaning Prior to Electroplating)	79, 84
ELEPHANT TRUNKS® Plastic, Concrete Handling Accessory (Specialty Products)	62, 74, 103
Emulsifiers, Agricultural	92
Emulsion Breakers, Oil	87
EMULSOWAX® Synthetic Wax	52
Emulsions	
Adhesive	65, 96
Coating—See Paint Chemicals	
Drawing	63, 99
Paint	66, 101
Enamel, Concrete Floor (Floor Materials)	62, 74, 99
Enamels, General Purpose	99
ENDCOR®	
Cooling Water Corrosion Inhibitor	87
Maintenance Coatings	87
ENDURA® Specialty Papers Bases for Sandpaper, Clothing Tags, Book Papers	67
ENDURA® Tape Backings Bases for Pressure Sensitive and Gummed Tapes	67, 80, 96
ENDURE® Floor Polish	83
Entraining Agents, Air— See Concrete and Cement Chemicals	
ENVIRON® Disinfectant for Animal Quarters	89
Epoxidized Oils	48, 50
E-POXTITE® Binder or Weld Masonry Adhesive (Specialty Products)	62, 74, 103
E-POXTITE® Filled Grouting Compound (Specialty Products)	62, 74, 103
Epoxy Coatings	
(Floor Materials)	62, 74, 99
(Technical Coatings)	62, 75, 103
(Pipeline Coatings)	87
Epoxy Plasticizers	50
Equipment	
Animal Insemination, Dairy and Beef	38
Battery Dry Charge Process Equipment	61, 74, 97

	PAGE
Equipment (cont'd)	
Car Wash Dispensing Equipment	85
Dispensing Equipment, Soaps and Cleaners	79, 83, 87
See also Specific Cleaner	
Flange Coating Machinery	63
Flexible Packaging Equipment and Systems	42, 77, 99
Floor Cleaning Machines and Accessories	88
Polystyrene Molded Foam Board Manufacturing Equipment	68
Rug Cleaning	88
Sealing Compound Application and Drying Equipment	63, 75, 98
Seed Treating Equipment	39
Textile Finishing Equipment	67, 79, 103
Erbium Oxide (Rare Earths)	54
Esters, Acetate	96
Esters, Aliphatic (Plasticizers)	50, 101
Esters, Dimerginates	99
Etchants, Aluminum (Metal-Working)	79, 84
Ethandiglycine Disodium Salt	70
Ethyl Acetate (Acetate Esters)	96
Ethyl Alcohol	48, 99
Ethylenediaminetetraacetic Acids and Salts	70
Europium Oxide (Rare Earths)	54
EVERFLEX® Paint Emulsions	66, 101
Examination Room Products— See Medical Supplies	
EXFOAM® Antifoam and Defoaming Formulations	79, 87
Exhaust Catalysts, Automotive (Industrial Catalysts)	54
Exhaust Catalysts, Diesel (Industrial Catalysts)	54
Expanded Polystyrene Molded Foam Board	68
Expansion Joint, Cement, Sidewalk and Building Joint Sealer (Caulks and Sealants)	62, 74, 98
Expansion Joint Fillers	62, 75
Exterior/Interior Paints	99
Extruded Plastic Products See also Fabricated Plastics	88
Extrusion Coatings	45

## F

<b>Fabricated Plastic Articles</b>	
Bags—See Flexible Packaging	
Boxes (Blow Molded Packaging)	42, 77
Polyvinyl Chloride Molded and Blown	102
Fibers, Monofilament and Multifilament	43

	PAGE
<b>Fabricated Plastic Articles (cont'd)</b>	
Film and Sheet, Vinyl, Supported and Unsupported	52, 76, 102
Films, Shrinking— See Flexible Packaging	
Foams—Alphabetically Indexed	
Industrial Films	77
Laminates, Industrial and Decorative	42, 44, 77, 100
Monofilament and Multifilament	43
Office Supplies	50
Ribbon Yarns, Polyethylene and Polypropylene	43
Rigid Containers	42, 77, 102
Rope and Cordage	43
Shrinking Bags, Films and Pouches for Packaging	42, 77, 103
Table Covers	76, 102
Tapes, Electrical Wire Identification	43
Toys, Plastic	104
Trays, Plastic	42, 77, 101
Yarns, Shrinker, M.O.	43
Fabric, Floor Repair (Floor Materials)	62, 74, 99
Fabric, Polypropylene Ribbon, Woven	43
Fabrics, Vinyl	52, 76, 102
FABRILON® Plastic Examination Gowns	89
Face Mask, Disposable	89
Farm Building Insulation	68, 69
FARRO-LAC® Sow Feed	40
Fatty Acids	49
Feeds—See Animal Feeds and Supplements	
Felt Cleaning System, Paper Mill	79, 84
FERRO-FAX® Metallic Floor Hardener (Floor Materials)	62
FERROSO "G"® Non-shrink Grout (Specialty Products)	62, 74, 103
FERROSO "W"® Metallic Waterproofing Compound (Specialty Products)	62, 74, 103
FERRO-TERJ® Metal Washing	79, 84
Fertilizer Carrier (Vermiculite)	69
<b>Fertilizers and Fertilizer Materials</b>	
Ammonium Nitrate	37
Ammonium Nitrate Limestone	37
Ammonium Sulfate	37
Anhydrous Ammonia	37
Diammonium Phosphate	38
Granulated Fertilizers (Mixed Fertilizers)	38
LAWN-SPRAY Fertilizer	38
Liquid Fertilizers	38
MAG AMP Fertilizer	38
Mixed Fertilizers	38
Nitrogen Solutions	39
SLURRY-MIX Fertilizers	40
Superphosphates	
Single	40
Triple	40
Water Soluble Fertilizers	37
Urea, Solid	40
Urea Solutions	40

	PAGE
FERTILLO® Alfalfa Seed	39
Fiber Can Sealants and Coatings	63
FIBERFLEXOR®, ORBITAL, DAREX—Textile Finishing Equipment	67, 79, 103
Fibers, Knitted Synthetic	100
Fibers, Polyethylene and Polypropylene	43, 100
Fibrous Glass Products—See Glass Fiber	
Field Seed—All Varieties	39
Film Coatings (DARAN Paper Coating Latices)	65
Film, Polyethylene	42, 44, 77, 102
Film, Shrinking and Laminates—See Flexible Packaging	
Film, Vinyl, Supported and Unsupported	52, 76, 102
FILMEEN® Corrosion Inhibitors	79, 87
FILMITE® Paint Spray Booth Coat, Clear and Pigmented	76, 84
FILMITE® Peel Paint Spray Booth Protector	79, 84
Finished Rope and Cordage	43
<b>Finishes</b>	
See: Building Maintenance Products	
Flattening Agents	
Floor Materials	
Lacquers	
Leather Chemicals	
Paints	
Primers	
Protective Coatings	
Varnishes	
Fireproofing, Steel Column and Beam (Vermiculite)	69
Fireproof Plaster Aggregate (Vermiculite)	69
FIRST BASE® Floor Sealer	83
Fish	110
Fish Meal	93
Fish Oil	99
Flange Coating Machinery (Compound Application and Drying Equipment)	63
Flange Coatings	63
Flat Leather Lacquer—See Leather Chemicals	
Flattening Agents for Finishes (SYLOID Micron-Sized Silicas)	55, 78
Flattening Base—See Leather Finishes	
<b>Flexible Packaging</b>	
Bags, Net	77
Bags, Shrinking	42, 77, 103
Casings, Food Products	77, 97
Equipment, Clip Applicators	42, 77, 99
Equipment, Customized Packaging Lines	42, 77, 99
Equipment, Form and Seal	42, 77, 99
Equipment, Shrink Tunnels	42, 77

	PAGE		PAGE		PAGE
<b>Flexible Packaging (cont'd)</b>		<b>Foam Products (cont'd)</b>		<b>Food Products and Beverages (cont'd)</b>	
Equipment, Vacuum Sealing	42, 77	Polyurethane Foam	52, 102	Soft Drinks	107
Film, Non-shrinking, PVC	77	Polyvinyl Chloride Foam (Latex Foam)	99	Sugar, Raw and Refined	94
Film, Shrinking		Rubber Foam (Latex Foam)	99	Syrups	110
Polyethylene	42, 77, 103	<b>FOAMALL*—Foam Detergent Applicator</b>		Vodka	94
Film, Shrinking		(Transportation)	85	<b>Food Processing, Maintenance and</b>	
Polypropylene	42, 77, 103	Foil, Paper	44	Cleaning Products	79, 83
Film, Shrinking Polyvinylidene		Foil, Tissue	44	Formaldehyde	99
Chloride	42, 77, 103	Foil, Unsupported	44	<b>Form and Seal Equipment (Flexible</b>	
Laminates	42, 44, 77	Folding Boxes	95	Packaging Equipment)	42, 77, 99
Pouches	42, 44, 77, 102	<b>Food Additives (Syloid Micron-Sized</b>		<b>Form Coatings, Plywood</b>	
Trays, Plastic	42, 77, 101	Silicas)	55, 78	(Specialty Products)	62, 74, 103
<b>Flexible Printing Plate Compound</b>	67	<b>Food Manufacturing—Processing</b>		<b>FORMFILM* Concrete Form Coating</b>	
<b>FLEXOCRAFT® Printing Rollers</b>	67	Cleaners	79, 83	(Specialty Products)	62, 74, 103
<b>FLEXWELD* Organic Solder—Thermoplastic</b>		<b>Food Packaging—See Flexible Packaging</b>		<b>FORMSHIELD* Concrete Form Coating</b>	
Cement (Organic Solders)	64, 76	<b>Food Products and Beverages</b>		(Specialty Products)	62, 74, 103
<b>FLIP-FILE* Photo Albums</b>	50	Baby Food	93	<b>FORM OIL CONCENTRATE* Concrete</b>	
<b>FLO-BRITE* Floor Polish</b>	83	Beer	110	Form Coating(Specialty Products)	62, 74
<b>Floor Materials and Products</b>		Biscuits	93	<b>FORMULA T-K* Cleaning Compound</b>	83
Adhesives	61, 65, 67, 74, 75, 96	Candies	93	<b>Frozen Foods</b>	110
Bonding Agents—		Canned Foods	93, 109	<b>Fruit Concentrates and Nectars</b>	94
Alphabetically Indexed		Cereals	93	<b>FUEL MATE® Fuel Additive</b>	
Cleaner, Floor (Floor		Chip Dips	109	(Miscellaneous Products)	79, 87
Materials)	62, 74, 83, 88, 99	Chips	110	<b>Fuel Oil Additives</b>	
Coating, Polyurethane Floor		Chocolate Products	93, 107	(Miscellaneous Products)	79, 87
(Floor Materials)	62, 74	Coatings	107	<b>Fuels, Nuclear</b>	
Colorants, Cement		Cocoa Butter	107	See Nuclear Fuel Materials	81
(Floor Materials)	62, 74, 98	Cocoa Powder	93, 107	Nuclear Fuel Scrap Recovery	81
Enamel, Concrete Floor	62, 74, 99	Coffee and Tea	107	Reprocessing and Transportation of	
Fabric, Repair, Floor	62, 74, 99	Confectionery, Non Chocolate	107	Spent Fuels	81
Finish, Floor	62, 79, 87	Confectioner's Coating	107	<b>Fumarates, Plasticizers</b>	50
Grease and Stain Remover	53	Convenience Foods	109	<b>Fumaric Acid</b>	49
Grouts (Floor Materials)	62, 74, 99	Cookie Drops	107	<b>Fungicides (Pesticides)</b>	39, 93
Hardeners (Floor Materials)	62, 74, 99	Cookies	93		
<b>HORNSTONE Materials</b>		Couverture	107		
(Floor Materials)	62, 74	Dairy Products	109		
Insulation, Floor (Vermiculite)	69	Desserts	94, 107		
Masonry Materials	62, 74, 99	Fish	110		
(A. C. HORN PRODUCTS)	61, 74	Flour, Wheat	89		
Masonry Surface Materials		Frozen Foods	110		
(Floor Materials)	62, 74, 99	Fruit Concentrates and Nectars	94		
Patch, Floor (Floor Materials)	62, 74, 99	Gin	93		
Patching and Resurfacing Materials	62	Horseradish Sauces	109		
Sealers	62, 74, 83, 88, 103	Herrings	109		
Tile, Floor	99	Jams and Marmalades	94, 109		
Tile Reinforcing Resins		Margarine	94		
(DAREX Copolymer Resins)	66, 78, 98	Meat Products	94, 109		
Waxes (Floor Materials)	79, 83, 88	Molasses	94, 109		
Wax Stripping Compounds	79, 88	Nuts, Salted	107		
<b>Flotation Billets (Polystyrene Molded</b>		Oils, Edible	93, 109		
Foam Board)	68	Olives and Cocktail Varieties	109		
<b>Flour, Wheat</b>	93	Pickle Products	109		
<b>FLOW*—All Purpose Cleaner</b>	83	Popcorn (Seeds)	39		
<b>FLUAT*—Liquid Floor Hardener</b>	62, 74	Pudding Powders	94, 107		
<b>Fluid Petroleum Cracking Catalysts—</b>		Rum	94		
See Catalysts, Petroleum		Salad Products	109		
<b>Fluosilicic Acid (Hydrofluosilicic Acid)</b>	38	Sauces and Dressings	94, 110		
<b>Fluxes, Crystal (Soldering Crystals)</b>	64, 103	Seafood	110		
<b>Fluxes, Liquid</b>	64, 103	Shortening	94, 109		
<b>Foam Products</b>		Shrimp and Shellfish	110		
Polystyrene Molded Foam Board	68	Snacks	109		

## G

<b>Gadolinium Oxide (Rare Earths)</b>	54
<b>GALVANIDE® Metal Primer</b>	
(Technical Coatings)	62, 75, 103
<b>Galvanizing Blanket Crystals</b>	63
<b>Gas Absorbents</b>	65, 78, 99
<b>Gases, Industrial</b>	38
Carbon Dioxide	
Hydrogen	
Nitrogen	
<b>Gasketing Compounds for</b>	
Metal, Glass and Fiber Containers and	
Industrial Parts	62, 63, 64, 75, 98
<b>Gel-Coats, Specialty Polyester Resins</b>	49
<b>Germicidal Detergents</b>	79, 83, 88
<b>Germicides</b>	79, 83, 88
<b>Gin</b>	93
<b>GLASFLEX Membrane Fabrics</b>	
(Floor Materials)	62, 74, 99
<b>Glass Container Products</b>	
See Container Products	

	PAGE
Glass Fiber Insulation	68
Glass Fiber Mats	61, 74
Glass Fiber Reinforcing Materials for Plastics	49
Glazing Compound (Caulks and Sealants)	62, 74, 98
Gloves, Disposable	89
Glyceryl Triacetate (Plasticizers, Specialty)	51
GRACE GREENTOWN* Agricultural Products	38
GRACON® Vinyl Compounds	52
Grain, Seed	39
Graphic Arts Products—See Printing and Graphic Arts Products	
Grass Seed	39
Grease Absorber (Vermiculite)	69
Grease and Stain Remover (Specialty Products) (Solvents)	62, 74, 103 52
GRAYTONE® Printing Rollers	66
GREEN STREAK* Concrete Corner Former (Specialty Products)	62, 74
Grinding Aids, Cement	62, 74, 94
Grinding Fluids	79, 84
GRIP-STRIP* Plastic Binding Strip	50
Grocery Kraft Bags	95
Grouting Materials (Floor Materials)	62, 74, 99
Gum, Chewing	107
Gum, Rubber Plate	67

## H

HAMP-ENE® Chelating Agents EDTA—Ethylenediaminetetraacetic Acid and Salts	70
HAMP-EX® Chelating Agents DTPA—Diethylenetriaminepentaacetic Acid and Salts	70
HAMP-OL® Chelating Agents HEDTA—Hydroxyethylethylenediaminetriacetic Acid and Salts	70
HAMP-ONATE* Chelating Agents—Sodium Glucoheptonate	70
HAMPOSYL* Surfactants N-Acyl Sarcosine Surfactants	70
HAMPSHIRE* Chelating Agents DEG—Diethanolglycine Sodium Salt	70
EDG—Ethanolglycine Disodium Salt	70
NTA—Nitrilotriacetic Acid and Salt	70
Hand Towels, Disposable	89
Hardeners for Masonry Floors (Floor Materials) (Specialty Products)	62, 74, 99 62, 74, 103

	PAGE
Hard Facing Materials	95
HATCOL® 16 Epoxidized Soybean Oil	48
HATCOL® 18 Octyl Epoxy Tallate (Epoxidized Oils)	48
HATCOL® 82, 88 (Plasticizers, Low Temperature)	51
HATCOL® 228, 29, 230, 237, 247 (Plasticizers, Semi-Polymeric)	51
HATCOL® 324, 327, 328, 329 (Plasticizers, Secondary)	51
HATCOL® 332, 334 (Plasticizers, Specialty)	51
HATCOL® 340—Rigid PVC Lubricant	52
HATCOL® 630, 640, 652, 654, 660, 684 (Plasticizers Polymeric)	51
HATCOL® 1606—Anti-Static Agent	47
HATCOL® D-FMA—Acids, Fatty	49
HATCOL® MC—Myristyl-Cetyl Alcohol Blend	50
HATCOL® P-70—Triethylene Glycol Caprylate-Caprate (Plasticizers, Esters, Aliphatic)	50
HATCOL® P-72—Triethylene Glycol Dicaprate (Plasticizers, Esters, Aliphatic)	50
HATCOL® R-FA—Polymerized Fatty Acids	49
HEA 2*—Cement Grinding Aid	62, 74
Health Industries Products	
Antiseptic Liquid Soaps	79, 88
Detergents	79, 88
Disposable Professional Office Products Gloves, Masks, Gowns, Sheets	89
Equipment—Alphabetically Indexed	
Floor Maintenance Materials—Alphabetically Indexed	
Gas Absorbents, Soda Lime Hospital Anesthesia Systems (Gas Absorbents)	65, 78, 99
Germicidal Detergents	79, 83, 88
Germicides	79, 83, 88
Surgical Soap and Detergents, Liquid	79, 88
Heat-Resistant Paints and Coatings See also Technical Coatings	87
Heat Sealable Coatings, Paper Wrapper (Thermoplastic Coatings)	64, 76
HERBA-LIZER® Liquid Fertilizer	38
Herbicides (Pesticides)	39, 93
Herrings	109
HI-ALK* Bottle Washing Compound	53, 79
HI-FLO® GRAN-U-LATED Triple Superphosphate	40
RUN-O-PILE, Triple Superphosphate	40
High Alkaline Cleaner (Metal Working)	79, 84
High Alumina Catalysts (Catalysts, Petroleum)	54

	PAGE
High Barrier Paper Coatings (DARAN Paper Coating Latices)	65
High Concentrate Cleaner (Specialty Products)	62, 74
High Temperature Insulation (Vermiculite)	69
HI-RAM® Textile Blankets Lapping Blankets for Textile Finishing Equipment	67, 79
Holmium Oxide (Rare Earths)	54
HOLZON® Swimming Pool Coating (Technical Coatings)	62, 75, 103
Home Canning Lid Gasketing Compounds	64
Homopolymer Emulsions (DARATAK Adhesive Emulsions)	65, 96
HORN CLEAR SEAL* Floor Sealer (Floor Materials)	62, 74, 99
HORN® Construction Products	61
HORNCURE® Concrete Curing Compound (Specialty Products)	62, 74, 103
HORNIFLEX® Polysulfide Construction Sealant (Caulks and Sealants)	62, 74, 98
HORN LUME* Roof Coating (Waterproofing and Roofing Materials)	62, 75, 104
HORN LUX* Masonry Sealer (Floor Materials)	62, 74
HORN LITH® Concrete Hardener (Floor Materials)	62, 74, 99
HORN POLYURETHANE FLOOR COATING* Masonry and Wood Finish Coat (Floor Materials)	62, 74, 99
HORN SEAL® Caulking Compound (Caulks and Sealants)	62, 74, 98
HORNSTONE® Concrete Hardener (Floor Materials)	62, 74, 99
HORN TRAZ* Concrete Sealer (Floor Materials)	62, 74, 99
HORN VINYL* Masonry Coating (Specialty Products)	62, 74, 103
Horseradish Sauces	109
Hospital Products—See Health Industrial Products; Medical Products	
Hot-Drink Cups	89
Hot-Melt Cements, Composite Can	63
HOT Poured PARA-PLASTIC® Joint Sealer	62, 74
House Insulation—See Insulation, Construction	
HOW FLEX* Plasticizers	50
HOWSORB* Sorbitol (Humectants)	49
Humectants	49
Hybrid Seed	39
Hydrates—Alphabetically Indexed	

	PAGE
HYDRATITE® Masonry Waterproofing	62, 74, 104
Hydrocarbon Combustion Catalyst (Industrial Catalysts)	54
Hydrochloric Acid	99
Hydrofluosilicic Acid	38
Hydrogen (Industrial Gases)	38
Hydrogenation Catalyst (Industrial Catalysts)	54
Hydroxyethylethylenediaminetriacetic Acid and Salts	70
HY-POWRD® Dishwashing Compound	83
<b>I</b>	
Ice Cream (Dairy Products)	109
Ice Cream Coatings	107
Immersion Tank Cleaner (Transportation)	79, 85, 87
Impregnated Papers (Specialty Papers) (Tape and Specialty Backings)	67, 80, 96
Indicator Absorbent (Gas Absorbents)	65, 78, 99
Industrial Adhesives	75, 100
See also Adhesives and Bonding Agents	
Industrial Belts	100
Industrial Catalysts—See Catalysts, Industrial	
Industrial Cleaners (Metal-Working)	79, 84
Industrial Gases	38
Industrial Gasketing Compounds	62, 63, 64, 75, 98
Industrial Housekeeping Products (Metal-Working)	79, 84
Industrial Soaps—See Cleaners and Disinfectants	
Industrial Solvents—See Solvents	
Industrial Tapes (Tape & Specialty Backings)	67, 80, 96
Industrial Towels and Wipes	89
Industrial Water Treatments—See Water Treatments	
Inhibitors, Corrosion—See Corrosion Inhibitors	
INKOWAX® Synthetic Wax	52
Inks, Lithographic	100
Insecticide Base Oils	49
Insecticide Carrier (Vermiculite)	69
Insecticides (Pesticides)	39, 93
Insecticide Solvent (Agricultural Solvent)	92
Insemination Equipment (Animal)	38

	PAGE
Insole Material	67
INSTA-MAGIC® Photographic Albums	50
Insulation, Construction	
Glass Fiber Blanket, Insulating	68
Perlite	68
Polystyrene Foam Board	68
Polystyrene Board Making Equipment	68
Vermiculite Loose Fill Insulation	69
Vermiculite Spray Insulation	69
Insulators, Automotive Battery (Battery Separators)	61, 74, 97
INSULPAVE® Vermiculite Asphalt-Roof Insulation	69
IODET® Sanitizer, Glass Washing	79, 83
IODP Iso-octyl iso-decyl Phthalate (Plasticizers, Phthalates)	51, 101
Iso-octyl iso-decyl Adipate (Plasticizers, Adipates)	50
Iso-Phthalates, Plasticizers	50
Isopropyl Alcohol	49
<b>J</b>	
Jams and Marmalades	94, 109
Japan Wax	49
Jar Cap and Lid Gasketing Compounds	64, 76, 97
Jet Engine Lubricants and Base Stocks	49
Joint Coatings (Pipeline Coatings)	87
Joint Fillers, Premolded	62, 75
Joint Sealing Compounds	62, 75
Joint Wrappers (Pipeline Coatings)	87
<b>K</b>	
Kentucky Blue Grass Seed	39
Ketones	
Acetone	47
Methyl Ethyl Ketone	49
Methyl Isobutyl Ketone	49
Kitchen Housekeeping Products (Dishwashing & Kitchen Sanitation)	79, 83
KLARIFIANT® Water Wash, Paint Booth Compound	79, 83
KLORO-KOL® Chlorinated Dish Machine Compound	79, 83
Knitted Fibers, Synthetic	100
K-O-KOTE® Cellophane	44
K-O-L SUPREME® Dish-Washing Machine Compound	79, 83
KORALITH® Printing Rollers	67
KORALTONE® Printing Rollers	67
KORK-PAK® Joint Filler	37, 73

	PAGE
Kraft Bags, Grocery	95
Kraft Paper	95
KUPRO® Electrolytic Cleaner	79, 84
KWIK ROC® Floor Patching Compound	62, 74, 99
KYTOON® Kite Balloons for Advertising and Scientific Uses	64, 80
<b>L</b>	
Label Coatings, Composite Can	63
Lacquers	
Automotive Lacquers	97
Container and Closure Lacquers	76
Fillers for Wood Surfaces	100
Primers—Alphabetically Indexed	
Varnishes	104
Wood Lacquers	104
See also Paints and Paint Chemicals	
Laminates, Films (Flexible Packaging)	42, 77
Laminates, Industrial and Decorative	44, 100
Laminates, Vinyl (Vinyl Film and Sheet)	44, 52, 76, 102
Lanthanum Oxide (Rare Earths)	54
Latex Foam	102
LATEX-LUBE® Rubber Anti-Adhesive	79, 84
Latex Paints	100
Latices and Emulsions	
Adhesive Emulsions	65, 96
Carpet and Textile Latices	66
Paint Emulsions	66, 101
Paper Coating Latices	65
Pigment Binder	66
Polyvinylidene Chloride Latices (DARAM Paper Coating Latices)	65
Styrene-Butadiene Latices (DAREX Carpet and Textile Latices)	66
Lauroyl Sarcosine Acid (Surfactants)	70
Lawn Grass Seed	39
LAWN SPRAY® Fertilizer	38
Leather Chemicals	
Adhesives	65, 75, 100
Emulsions, Finishing (DAREX Coating Emulsions)	64
Leather Oils	100
Polishes and Stains	75
Tanning Agent (Leather Oils)	100
Legume Seeds	39
Letterpress Packing Blankets	66, 79
LEV-L-LINE® Textile Print Blankets	66, 79, 103
LIFT-AWAY® Industrial Cleaner	79, 83
Lightweight Aggregates, Concrete and Plaster	69
Liners and Corrugating Medium	96

	PAGE
Liquid Fertilizers	38
Liquid Fluxes	64
Liquid Soaps, Antiseptic	79, 83, 88
Liquid Solvents and Drawing Compounds	
Drawing Emulsions	63, 99
Drawing Lubricants	63, 99
Liquid Tin Soldering	64
Wetting Agents	39, 70, 95
LIQUE-LUBE® Rubber Stock Lubricant	84
LITHOCRAFT® Printing Rollers	66
Lithographic Inks	100
Lithographic Printing Blankets	66, 79
LITTLE BUSTER® Popcorn (Seeds)	39
Livestock	
Dairy and Beef Cattle Insemination	39
Livestock Feeds and Supplements— See Animal Feeds and Supplements	
LONDON® Soft Drinks	107
LOOB® Chain Conveyor Lubricants	79, 84
LOOBASE® Chain Conveyor Lubricants	79, 84
Loose Fill Insulation (Vermiculite)	69
LUBARS® Chain Conveyor Lubricants	79, 84
Lubricants	
Conveyor Lubricants (Beverage and Brewing Industries)	79, 83
Drawing Lubricants	63, 99
Grease and Oils	84, 85
Jet Engine Lubricants	49
Lubricating Soap (Rubber Processing)	79, 84
Mold Release Agents	49
Rigid PVC Lubricants	52
Rubber Anti-Adhesive Agents (Rubber Processing)	79, 84
LUSTRE-LITE® Polypropylene Monofilament	43
Lutetium Oxide (Rare Earths)	54

## M

Machine Dishwashing Compounds (Dishwashing and Kitchen Sanitation)	79, 84
Machinery, Application—See Equipment	
(MAG AMP)®—Magnesium Ammonium Phosphate and Magnesium Ammonium Potassium Phosphate (MAG AMP)	38
Magnesium Silicofluoride (Silicofluorides)	40
Magnetic Equipment and Materials (Magnetic Materials)	95
Maintenance Coatings	79, 87
Maintenance Paints	79, 87, 100
Maintenance Products—See Building Maintenance Products	

	PAGE
MAINTENEX® Floor Cleaner	62, 74, 99
Maleates (Plasticizers)	50
Maleic Anhydride	49
MARCO® Polyester Resins	51
MARCO-COTE® Polyester Resins	51
MARCOLITA® Polyester Resins	51
MARCOTHIX® Polyester Resins	51
Margarine	94
Marine Paints	87, 100
Masks, Disposable, Face	89
Masonry Coatings (A. C. HORN PRODUCTS)	62, 74
Masonry Fill Insulation	68, 69
Masonry Wall Insulation	68, 69
Mastic Compounds (Waterproofing and Roofing Materials)	62, 75, 104
MAXIPRINT® Textile Print Blankets	66, 79, 103
MAXWELL® Insecticides, Fungicides, Herbicides (Pesticides)	39, 93
MC-1® Polyester Resin Catalyst	51
MCP Di-methoxyethyl Phthalate (Plasticizers, Phthalates)	51, 101
Meat Processing Industry Cleaners (Food Manufacturing-Processing)	79, 83
Meat Products	94, 109
Medical Products	
Examination Draping Sheets and Gowns, Disposable	89
Examination Table Paper Rolls	89
Gloves, Disposable	89
Masks, Face, Disposable	89
Soda Lime Gas Absorbent	65, 78, 99
Towels, Disposable, Professional	89
See also Health Industries Products	
Melamine Formaldehyde Resins	100
Membrane Fabrics (Waterproofing and Roofing Materials)	62, 75, 104
Mercury, Dental	89, 94
MESH BOLSTERS® Reinforcing Bar Supports (Specialty Products)	62, 74, 103
Metal Brighteners	79, 84
Metal Building Insulation	68, 69
Metal Chelating Agents	70, 78
Metal Cleaners	79, 84, 87
Metal Container Sealing Compounds— See Container Products	
Metal Degreasing Solvents (Transportation)	79, 85
Metal Galvanide Primers	100
(Technical Coatings)	62, 75, 103
(Waterproofing and Roofing Materials)	62, 75, 104
Metallurgical Specialties Cutting Bits	94

	PAGE
Metallurgical Specialties (cont'd)	
Dental Alloys	94
Hard Facing Materials	95
Magnetic Devices and Materials	95
Resistance Wire	95
Metal Parts Coatings	87
Metal Primers (Technical Coatings)	62, 75, 103
(Waterproofing and Roofing Materials)	62, 75, 100, 104
Metal Stamping Emulsions, Sheet (Drawing Emulsions)	63, 99
METALON® Metallic Waterproofer	62, 75
Meteorological Balloons	39, 70, 85
Methyl Alcohol	49
Methylaminoacetic Acid (Chelating Agents)	70
Methylcyclohexyl Alcohol	49
Methyl Ethyl Ketone	49
Methyl Ethyl Ketone Peroxide (Curing Agents)	48
Methyl Isobutyl Ketone	49
Microbiological Treatments (Biocides)	79, 87
Milk (Dairy Products)	109
Milk Chocolate Crumb	107
Mill Felt Cleaner, Paper (Paper Mill Products)	79, 84
MILLER HIGH LIFE® Beer	110
Minerals, Animal Feed	37
Minerals—See also Ores and Minerals	
Mineral Spirits	49
MIR-A-KOL® Dish Machine Compound	79, 83
MIR-A-KLOR-X® Dish Machine Compound	79, 83
Mixed Fertilizers See also Fertilizers and Fertilizer Materials	38
Moisture Removal Products— See Desiccants and Adsorbents	
Molasses	94, 109
MOLDED PARA-PLASTIC® Premolded Joint Sealing Strip (Joint Sealers)	62, 75
Molded Products	66
Mold Release Agents	49
Molecular Sieves	54, 78
MONASTITE® Cementitious Masonry Coating	62
Monofilaments, Polyethylene and Polypropylene	43
MONO-KOTE® Fireproof Plaster Aggregate	69
Montan Wax	50
MOREA® Cattle Feed	92
Mortar Admixtures—See Concrete and Cement Chemicals	

	PAGE
Mortar Boards and Pans, Plastic Mason's Equipment	62
MOR-TIM® Timothy (Seed)	39
MR® Polyester Resin	51
MRDA® Cement Retarder (Retarding Additives)	62, 102
MS® Microspherical Silica-Alumina Catalyst (Industrial Catalysts)	54
Mulch (Vermiculite)	69
Mullite Pellets	54, 78
Multifilament, Polyethylene and Polypropylene	43
Multiwall Paper Bags	96
Mylar	44
Myristyl-cetyl Alcohol	50
 <b>N</b>	
NACO®	
Fertilizer, Granulated (Mixed Fertilizers)	38
Fertilizer, Pulverized (Mixed Fertilizers)	38
Fungicides, Herbicides, and Insecticides (Pesticides)	39, 93
Naphthalene	101
NAPIER® Orchard Grass (Seeds)	39
Native Grass Seed (Seeds)	39
Nematocides (Pesticides)	39, 93
Neodymium Oxide (Rare Earths)	54
Neoprene Latex Meteorological Balloons	64, 80, 97
Neoprene Pads (Bridge Products)	64, 80
Net Bags	77
Net Bags, Cotton (PERMAC)	77
NEUTRA-GLOSS® Floor Wax	79, 83
NEUTRALAVE® Floor Cleaner	79, 83
Nickel Catalyst (Industrial Catalysts)	54, 78
NIPOCERA® Synthetic Wax	52
NI SOL® Urea Solutions	40
NITREX®	
Ammonium Nitrate	37
Calcium Ammonium Nitrate	37
Nitrogen Solutions	39
Nitrioltriacetic Acid—NTA (Chelating Agents)	70, 78
Nitrogen (Industrial Gases)	38
Nitrogen Solutions	39
NODA Di-n-octyl n-decyl Adipate (Plasticizers, Adipates)	50
NODOGEN® Nitrogen Fixing Bacteria Inoculation	38
NODP Di-n-octyl n-decyl Phthalate (Plasticizers, Phthalates)	51, 101

	PAGE
NODTM Tri-n-octyl n-decyl Trimellitate (Plasticizers, Trimellitates)	51
Noise Control Insulation (Polystyrene Molded Foam Board)	68
NOISE-GUARD® Sound Conditioning Insulation	68
Noise Reducing Compounds, Automotive (Sound Deadeners)	74
Non-Web Wetting Agents (Non-Web Compounds)	64
NO-OX-ID®	
Maintenance Coatings	87
Pipeline Coatings	87
Production Coatings	87
NO-OXID-IZED® Pipeline Wrappers	87
NO-TRAK® Sidewalk and Floor Sealer	62, 74
NTA Chelating Agents	70, 78
Nuclear Fuel Materials	
Plutonium	
Pu Carbide	81
Pu Metallic Alloys	81
Pu Nitrate	81
PuO <sub>2</sub> -UO <sub>2</sub>	81
PuO <sub>2</sub> -UO <sub>2</sub> Ceramics	81
Thorium	
Thorium Alloy, Ingots and Rods	81
Thorium Carbide	81
Thorium Fluoride	81
Thorium Hydroxide	81
Thorium Metal Pellets, Ingots and Rods	81
Thorium Metal Powder	81
Thorium Nitrate	81
Thorium Oxalate	81
Thorium Oxide	81
Thorium Oxide Ceramics	81
Thorium Sulfate	81
U <sup>233</sup> Metal	81
U <sup>233</sup> O <sub>2</sub> , Th O <sub>2</sub> —Pellets	81
U <sup>233</sup> O <sub>3</sub> —Powder, Pellets	81
Unirradiated Scrap Recovery	
PU Compounds	81
PU Metal	81
PU Metallic Alloys	81
PU Mixed Oxides	81
U-Al Alloys	81
U Carbides	81
U <sup>233</sup> Compounds	81
U <sup>233</sup> Metal	81
U <sup>233</sup> Metallic Alloys	81
U <sup>233</sup> Mixed Oxides	81
U-Oxides	81
U-Nb Alloys	81
U-Mo Alloys	81
Uranium Metal	81
U-Zr Alloys	81
UO <sub>2</sub> -Be O	81
UO <sub>2</sub> -SS Cermet	81
UO <sub>2</sub> -Th O <sub>2</sub>	81
UO <sub>2</sub> -Zr O <sub>2</sub>	81
UC <sub>2</sub> -Th C <sub>2</sub>	81
Uranium	
Ammonium Diuranate	81

	PAGE
Nuclear Fuel Materials (cont'd)	
Sodium Diuranate	
Sphere Coatings—Nb, W, Graphite and other Metals	
Triuranium Octoxide (U <sub>3</sub> O <sub>8</sub> )	
U Carbide Spheres	
UO <sub>2</sub> Spheres	
UO <sub>2</sub> -Th O <sub>2</sub> Spheres	
UO <sub>2</sub> -Zr O <sub>2</sub> Spheres	
Urania-Thoria Ceramics	
Urania-Zirconia Ceramics	
Uranium Alloy Castings	
Uranium Alloy Ingots and Rods	
Uranium Castings	
Uranium Dicarbide	
Uranium Dioxide (UO <sub>2</sub> )	
Uranium Dioxide Ceramics	
Uranium Hydride	
Uranium Metal Ingots and Rods	
Uranium Metal Melt Stock	
Uranium Metal Powder	
Uranium Metal Sawdust	
Uranium Monocarbide	
Uranium Nitride	
Uranium Tetrafluoride	
Uranium Trioxide (UO <sub>3</sub> )	
Uranyl Nitrate	
Uranyl Sulfate	
Nuclear Fuel Reprocessing and Transportation Services	
81	
NURISH® Water Soluble Fertilizer	37
Nutrient Carrier, Animal Feed (Verxite)	69
Nutritional Products, Animal— See Animal Feeds and Supplements	
 <b>O</b>	
ODA Iso-octyl iso-decyl Adipate (Plasticizers, Adipates)	50
ODP iso-octyl iso-decyl Phthalate (Plasticizers, Phthalates)	51, 101
Office Supplies	50
Offset-Printing Blankets	67, 79
Oil, Crude	112
Oil, Edible	94, 109
Oil, Emulsion Breakers	87
Oleoyl Sarcosine Acid (Surfactants)	70, 78
Olives and Cocktail Varieties	109
ONE-KOTE® Silicate Floor Hardener (Floor Materials)	62, 74, 99
Optical Polishing Powders (Rare Earths)	54
ORBITAL FIBERFLEXOR® (Textile Finishing Equipment)	67, 79, 103
Ores and Minerals	
Copper	94
Perlite	68
Petroleum	112
Tin	95
Tungsten	95

	PAGE
<b>Ores and Minerals (cont'd)</b>	
Vermiculite	69
Verxite	69
Wolfram (Tungsten)	95
<b>Organic Chemicals</b>	
Adhesive Emulsions	65, 75, 96
Carpet and Textile Latices	66
Coating Emulsions	66
Copolymer Resins	66, 78, 98
Dispersing Agents	66, 78, 98
Paint Emulsions	66, 101
Paper Coating Latices, High Barrier	65
Pigment Binder, Paper Coating	66
Plasticizers	50, 51, 66, 101
See also other types of Organic Chemicals Alphabetically Indexed (e.g. Acids, Esters, etc.)	
<b>Organic Salt of Carboxylated Polyelectrolyte (Dispersing Agents)</b>	66, 78, 98
<b>Organic Solders</b>	64, 76
<b>Organic Synthesis Catalysts (Gas Absorbents)</b>	65, 78, 99
<b>Ouricury Wax</b>	50
<b>Ovens, Sealing Compound Drying (Compound Application and Drying Equipment)</b>	63, 75, 98
<b>O-X® Printing Rollers</b>	67
<b>Oxidation Catalysts (Industrial Catalysts)</b>	54, 78
<b>Oxygenated Solvents</b>	52
<b>Oxygen Scavengers (Boiler Water Treatments)</b>	79, 87
<b>Ozokerite Wax</b>	50

## P

<b>PA Phthalic Anhydride</b>	50, 101
<b>Packaging Materials and Equipment</b>	
Bags, Shrinking	42, 44, 77, 103
Blow Molded Packaging	42, 77, 102
Boxes and Cartons—Alphabetically Indexed	
Casings	42, 77, 97
Coatings—Alphabetically Indexed	
Composite Can Products— Alphabetically Indexed	
Compound Application and Drying Equipment	63, 75, 98
Container Sealing Compounds— Alphabetically Indexed	
Containers, Plastic	42, 77
Custom Flexible Packaging Lines (Equipment)	42, 77, 99
Desiccants, Packaging	54, 78
Equipment, Flexible Packaging	42, 77, 99
Films, Shrinking	42, 44, 77, 103

	PAGE
<b>Packaging Materials and Equipment (cont'd)</b>	
Flexible Packaging—Alphabetically Indexed	
Laminates, Film (Converted Plastics)	76
(Flexible Packaging)	42, 44, 77
Paper and Paper Products— Alphabetically Indexed	
Paper Coatings, High Barrier	65
Plastics—See Plastic Packaging Materials	
Pouches	42, 44, 77, 102
<b>Pail and Drum Sealing Compounds</b>	64, 76, 101
<b>Paint Chemicals and Ingredients</b>	
Acrylic Copolymer Emulsions (DAREX Coating Emulsions)	66
Butadiene Styrene Copolymer Emulsion (DAREX Coating Emulsions)	66
Degassing Agents (SYLOID Micron-Sized Silicas)	55, 78
Dispersing Agents for Paint Formulations	66, 78, 98
Flattening Agents	55, 78
(SYLOID Micron-Sized Silicas)	55, 78
Solvents and Thinners	104
(Paint Chemicals)	50
(Solvents)	52
Vinyl Acetate Copolymer Emulsions (Paint Emulsions)	61, 101
Vinyl Acetate Homopolymer Emulsions (Adhesive Emulsions)	65, 75, 96
<b>Paints</b>	
Aluminum Heat-Resistant Paint (Technical Coatings)	62, 75, 103
Aluminum Paint (Technical Coatings)	62, 75, 103
Architectural Paints	97
Enamels	99
Exterior/Interior Paints	99
Latex Paints	100
Maintenance Paints	79, 87, 100
Marine Paints	100
Paint Spray Booth Coat and Protection	79, 84
Primers—Alphabetically Indexed	
Rubber Paint, Anti-Corrosive	79, 84
Silicone High-Temperature Paints	87
Swimming Pool Paint (Technical Coatings)	62, 75, 103
Traffic and Zone Paint (Technical Coatings)	62, 75, 103
<b>Paint Spray Booth Maintenance Products (Metal Working)</b>	79, 84, 101
(Transportation)	79, 85, 101
<b>Paint Stripping Compounds</b>	79, 84
<b>Pan Washing Compounds (Dishwashing and Kitchen Sanitation)</b>	79, 83
<b>Paper and Paper Products</b>	
Backings (Tape and Specialty Backings)	67, 80, 96
Bags (Multiwall Paper Bags)	96
Bond Paper	95

	PAGE
<b>Paper and Paper Products (cont'd)</b>	
Boxes and Cartons—Alphabetically Indexed	
Bristol Board	95
Clay-Coated Base Stock (Specialty Papers)	61
Coated Paper (Specialty Papers)	61
Coatings for Paper, High Barrier	65
Finish Coatings (SYLOID Micron-Sized Silicas)	55, 78
Kraft Paper	95
Linen Embossed Paper	44
Liners and Corrugating Media	96
Paper Board	95
Pigment Binder, Paper Coating	66
Release Papers, Base Stock (Tape and Specialty Backings)	67, 80, 96
Sandpaper, Base Stock (Tape and Specialty Backings)	67, 80, 96
Saturating Papers (Specialty Papers)	61
Sulfite Paper	96
Tape and Specialty Backings	67, 80, 96
Tissue Papers	96
Vinyl Coated Paper	96
Wrapping Papers	95
<b>Paper Mill Maintenance Products</b>	79, 84
<b>Paraformaldehyde</b>	101
<b>PARA-LATERAL STRIP® Vertical Joint Sealer</b>	62
<b>PARA-PLASTIC® Joint Sealer</b>	62
<b>Parting Agents, Mold Release</b>	49
<b>Pasture Seeds</b>	39
<b>Patching Compounds for Concrete and Masonry (Floor Materials)</b>	62, 74, 99
<b>Peanuts, Salted</b>	107
<b>PEEL FILMITE® Flame-Proof Masking Compound</b>	87
<b>PEP-POP® Popcorn (Seeds)</b>	39
<b>PERJ® Paint Booth Purgent</b>	79, 84
<b>PERL-AG® Perlite Plaster Aggregate</b>	68
<b>PERL-CRETE® Perlite Concrete Aggregate</b>	68
<b>Perlite</b>	68
<b>PERL-TILE® Roof Deck Materials</b>	68
<b>PERL-TROWL® Perlite Concrete Finish</b>	68
<b>PERMAC® Cotton Net Bags</b>	77
<b>PERMADECK® Roof Deck Materials</b>	68
<b>Pesticide Base Oils (Insecticide Base Oils)</b>	49
<b>Pesticide Carrier (Vermiculite)</b>	69
<b>Pesticides</b>	39, 93
Fungicides, Herbicides, Insecticides and Nematocides	
<b>Petrochemical Plant Cleaners (Metal-Working)</b>	79, 84

	PAGE		PAGE		PAGE
Petrochemicals—See Specific Product (e.g. Anhydrous Ammonia, Pesticides, etc.)		Plasticizers (cont'd)		Polymerized Organic Salts of Naphthalene Sulfonic Acid (Dispersing Agents)	66, 78, 98
Petroleum (Crude Oil)	112	Plasticizers, Polymeric	51	Polymerization Initiators	
Petroleum Catalysts—See Catalysts, Petroleum		Plasticizers, Secondary	51	Polymer-Fiber Products (POLYFIBRON)	66, 79
Petroleum Refinery Cleaners (Metal Working)	79, 84	Plasticizers, Semi-Polymeric	51	Polymers—See: Fabricated Plastic Products Plastics Resins	
Phenol-Formaldehyde Molding Powders	101	Plasticizers, Specialty	51		
Phenol-Formaldehyde Resins	101	Sebacates	51		
Phosphates and Superphosphates		Triacetin	101		
Phosphate Rock	39	Trimellitates	51		
Diammonium Phosphate	38	Plasticizers, Concrete			
Single Superphosphate	40	(Accelerating and Retarding Admixtures)	61, 74, 96	Polyolefin Catalysts (Industrial Catalysts)	54, 78
Triple Superphosphate	40	(Water-Reducing Admixtures)	61, 74, 104	Polypropylene	
Phosphatizers (Metal-Working)	79, 84	Plastic Packaging Materials		Films	42, 77, 103
Phosphoric Acid 52-54%, 75%, 80% and 85%	39	AIRMOULD Blow Molded		Monofilament and Multifilament	43
Phthalates (Plasticizers)	51, 101	Polystyrene Boxes	42	Ribbons	43
Phthalic Anhydride	50, 101	Flexible Packaging— Alphabetically Indexed		Yarns	43
Pickle Products	109	Foam Materials—Alphabetically Indexed		Polystyrene	
Pigment Binder	66	Plastic Trays	42, 77, 101	Containers and Trays	42, 77, 101
Pigments and Additives, Chemical Coating (SYLOID Micron-Sized Silicas)	55, 78	Rigid Plastic Containers	42, 77	Molded Foam Board and Manufacturing Equipment	68
Pilot Balloons	64, 80	Polyvinyl Chloride, Molded and Blown	97, 102	Polyurethane Floor Coating (Caulks and Sealants)	62, 74, 98
Pipeline Coatings	87	Plastics and Resins		Polyurethane Foam	52, 102
Casing Filler		Blow Molded Packaging	42, 77, 97, 102	Polyurethane Sealant for Construction Joints (Specialty Products)	62, 74, 103
Internal Pipe Linings		Coumarone-Indene Resins	98	Polyvinyl Acetate Emulsions (Adhesive Emulsions)	65, 96
Joint Coatings		Fabricated Plastic Articles		(Coating Emulsions)	66
Joint Coatings—Wax Type		Film, Sheet, Molded Articles— Alphabetically Indexed		(Paint Emulsions)	41, 76, 91
Joint Wrappers		Foam Products—Alphabetically Indexed		Polyvinyl Chloride Film	102
Pipeline Wrapper—Felt Laminate		Phenol-Formaldehyde Resins	101	Polyvinyl Chloride Foam (Latex Foam)	90
Undercoat Shield		Resins—Alphabetically Indexed		Polyvinyl Chloride Molded and Blown	102
Pipe, Polyvinylchloride	102	PLAST-O-DAMP® Printing Rollers	66	Polyvinyl Chloride Pipe	102
Pitch	101	Plutonium Compounds—See Nuclear Fuel Materials		Polyvinyl Chloride Products (Toys)	104
Plant Propagation Materials	69	Plywood Form Coatings (Specialty Products)	62, 74, 103	Polyvinyl Chloride Resin	102
Plaster Bonding Agent	61, 74, 96	Polish, Floor—See Floor Materials		Polyvinylidene Chloride Products Bags (Shrinking Bags)	42, 77, 103
Plaster, Construction		Polishing Compounds and Products (Rare Earths)	54	Films (Shrinking Films)	42, 77, 103
Acoustical Plaster Aggregate	69	Polyamides	102	Latices (DARAN Paper Coating Latices)	65
Fireproof Plaster Aggregate	69	POLYCHROME® Corrosion Inhibitor (Cooling Water Treatments)	79, 87	Polyvinyl Waterstop (Waterstops)	62, 75
Plaster Texture Material	69	Polyester Resins	51, 102	Popcorn (Seeds)	39
Plastic Adhesives and Cements— See Container Products		Polyesters, Fire Retardant	51	POREX® Roof Deck Materials	68
Plastic Articles—See Fabricated Plastic Articles, and Plastics and Resins		Polyethylene		Pot and Pan Washing Compounds (Dishwashing and Kitchen Sanitation)	79, 83
Plastic Cleaner (Pre-Soaking)	83	Bottles	97	Potato Chip Industry Cleaners (Food Manufacturing-Processing)	79, 83
Plastic Foam Joint Filler—Premolded	62, 75	Bags	103	Potato Chips	110
Plasticizers		Film	42, 44, 77, 102	Pouches, Flexible Packaging	42, 77, 102
Adipates	50	Monofilaments	43	Poultry Industry Products	
Epoxies	50	Pouches	102	Poultry Feeds	39
Esters, Aliphatic	50, 101	Yarns, Shrinker M.O.	77	Poultry House Cleaners and Disinfectants	88
Fumarates	50, 66	POLYFIBRON® Printing Blankets for Offset Letterpress and Duplicator Printing Presses	66, 79	Poultry House Floor Litter (Verxite)	69
Iso-Phthalates	50	Polyglycols	51	Poultry Packaging (Flexible Packaging)	42, 77
Maleates	50, 66	Polymerized Fatty Acids	52	(Shrinking Bags)	42, 77, 102
Phthalates	51, 101				
Plasticizers, Low Temperature	51				

	PAGE
Poultry Industry Products (cont'd)	
Poultry Processing Industry	
Cleaners	
(Food Manufacturing-Processing)	79, 84
Praseodymium Oxide (Rare Earths)	54
Premixes, Animal Feed	
(Beef Feeds)	37
(Dairy Feeds)	37
(Poultry Feeds)	39
(Sheep Feeds)	39
(Swine Feeds)	40
Premolded Joint Fillers	62, 75
Premolded Mastic Lath—Parapet	
Moisture Barrier	
(Specialty Products)	62, 74
Preservatives	
See—Coatings	
Lacquers	
Paints	
Pipeline Coatings	
PRESTIGE* Floor Finish	88
PRIME* Floor Cleaner and	
All-Purpose Detergent	79, 83
Primers	
Metal Galvanide Primers	100
Metal Primers	87, 100
Wash Primers	79, 84, 87
Printing and Graphic Arts Products	
Adhesives, Printing Plate	67
Dryers, Textile Print Blankets	
(Textile Finishing Equipment)	67, 79, 103
Duplicator Press Blankets	
(Offset Printing Blankets)	67, 79
Gum, Rubber Plate	67
Inks, Lithographic	100
Lapping Blankets (Textile Printing Blankets)	67, 79, 103
Letterpress Packing Blankets	66
Offset Printing Blankets	67, 79
Printing Plate Compound	67
Roller Printing Blankets (Textile Printing Blankets)	67, 79, 103
Rollers, Mechanical	66
Rollers, Printing and Lithographic	67
Screen Printing Blankets (Textile Printing Blankets)	67, 79, 103
Textile Finishing Equipment	67, 79, 103
Textile Printing Blankets	67, 79, 103
Washers, Textile Print Blanket	
(Textile Finishing Equipment)	67, 79, 103
Production Coatings	87
Protective Coatings	
See—Coatings	
Lacquers	
Maintenance Coatings	
Paints	
See—Pipeline Coating and Wrappers	
Production Coatings	
Protective Skin Creams	79, 87

	PAGE
PROTEK-PLUG®	
Packaging Desiccants	54, 78
PROTEK-SORB® 88	
Packaging Desiccants	54, 78
PROTEK-SORB® 121	
Packaging Desiccants	54, 78
Pudding Powders and Desserts	94, 107
Pulverized Fertilizers (Mixed Fertilizers)	38
PVA Polyvinyl Acetate Emulsion	
(DARATAK Adhesive Emulsions)	65, 96
(DAREX Coating Emulsions)	66
(DAREX 66L Pigment Binder)	66
(EVERFLEX Paint Emulsions)	66, 101
PVC—Polyvinyl Chloride Products—	
See Vinyl Products	
PVdC Latex—Polyvinylidene Chloride Latex	
(DARAN Paper Coating Latices)	65
PYRA-COTE® Floor Finish	88
PYRA-SEAL® Floor Seal	88

## Q

Q/M #1 Alkaline Rust Stripper	84
QUICK STRIPPING FORM COATINGS*	
Concrete Form Coatings	
(Specialty Products)	62, 74, 103

## R

RAAK* Soft Drinks	107
RACE* Acid Paint Stripper	79, 84
Radar Reflective Balloons	65, 80, 97
RADIOR* Radiator Cleaner	
(Transportation)	79, 85
Railroad Bridge Protective Coatings	
(Maintenance Coatings)	79, 87
Railroad Cleaners (Cleaners)	87
(Transportation)	85
RANEY® Nickel Catalysts	54, 78
Rare Earths	54
Cerium Hydrate	
Cerium Oxide	
Cerium Sulfate	
Dysprosium Oxide	
Erbium Oxide	
Europium Oxide	
Gadolinium Oxide	
Holmium Oxide	
Lanthanum Oxide	
Lutetium Oxide	
Neodymium Oxide	
Polishing Compounds	
Polishing Extender and Defoamer	
Polishing Pads	
Praseodymium Oxide	
Rare Earth Chlorides	

	PAGE
Rare Earths (cont'd)	
Rare Earth Fluorides	
Rare Earth Hydrates	
Rare Earth Oxides	
Samarium Oxide	
Terbium Oxide	
Thorium-Magnesium Hardener	
Thorium Nitrate	
Thorium Oxide	
Thulium Oxide	
Ytterbium Oxide	
Yttrium Oxide	
RAREOX® Glass Polishing Compounds	
(Rare Earths)	54
Raw and Refined Sugar	94
RDA® Cement Grinding Aid	62, 74, 94
Refrigeration Dryers	
(Molecular Sieves)	54, 78
RELEASE® Dishwashing Machine	
Compound	84
Release Papers, Base Stock (Tape	
and Specialty Backings)	67, 80, 96
Reprocessing of Spent Nuclear Fuels	81
RESICHEM® Polyester Resin	51
Resins	
Alkyd Resins	97
Butadiene-Styrene Copolymer Resins	
(DAREX Copolymer Resins)	66, 78, 98
Coating Resins—See	
Coatings and Plastics	
Copolymer Resins	66, 78, 98
Coumarone-Indene Resins	98
Fabricated Plastic Articles—	
Alphabetically Indexed	
Foams—Alphabetically Indexed	
Melamine-Formaldehyde Resins	100
Phenol-Formaldehyde Resins and	
Molding Powders	101
Polyamides, Epoxy Resin	
Curing Agents	102
Polyester Resins	51, 102
Polyvinyl Acetate Resin	65, 102
Polyvinyl Chloride Resin	102
Polyvinylidene Chloride Latices	
(DARAN Paper Coating Latices)	65
Urea-Formaldehyde Resins	94
Resistance Wire	95
RESISTOWAX* Synthetic Wax	52
REST-I-FILM*	
Matte Finish Sheet Protectors	50
Retarding Additives, Cement	62, 102
Retarding Admixtures, Concrete	
(Accelerating and Retarding	
Admixtures)	61, 74, 96
Return Line Treatments	79, 87
Ribbon Yarn	
(Polyethylene, High Density)	43
(Polypropylene)	43
Rigid Foam Board Insulation	68
Rigid Plastic Containers	42, 77, 101

	PAGE		PAGE		PAGE
Rigid PVC Lubricant	52	Rug Cleaners	89	Sealing Compound Dispersing Solvents	63
Rigid Vinyl Films	52, 76, 102	Rug Cleaning Equipment	89	Sealing Compounds, Container— See Container Products	
RINS-A-TROL* Rinse Injection Device	79, 84	Rum	94	Sealing Strips (Joint Sealing Compounds)	62, 75
Rinse Agents (Dishwashing and Sanitation)	79, 83	RUN-O-PILE* Superphosphate, Single	40	Seafood Products	110
RIP* Paint Stripper	79, 84	RUSTBAAR* Primer (Technical Coatings)	62, 75, 103	Sea Marker Balloons	64, 80, 97
Rock Products Chemicals	62, 74	Rust Inhibitors (Metal-Working)	79, 84	Seam Dopes, Metal Container	64, 103
Rollers, Mechanical	66	(Protective Coatings)	87	Sebacates—Plasticizers	51
Rollers, Printing and Lithographic	67	(Technical Coatings)	62, 75, 103	Sebacic Acid—CP and Regular Grade	52
Roil Salts, Can Soldering (Soldering Crystals)	64	Rust Removers	79, 87	Seed Carrier (Vermiculite)	69
Roof Coatings, Asphalt (Waterproofing and Roofing Materials)	62, 75, 104			Seeds	39
Roofing Materials (Waterproofing and Roofing Materials)	62, 75, 104	<b>S</b>		Alfalfa	
Roof Insulation (Vermiculite)	69	SAFEGARD® Wax Emulsion (Production Coatings)	87	Clover	
Rope and Cordage, Plastic	43	Salad Products	109	Cotton	
Rose Mulch (Vermiculite)	69	Salt, Industrial	100	Field Grasses, All Varieties	
RP 30F, 40F* Hybrid Forage Sorghum (Seeds)	39	Samarium Oxide (Rare Earths)	54	Hybrid Corn	
RP 110, 200, 220, 288, 330* Hybrid Grain Sorghum (Seeds)	39	Sandpaper, Base Stock (Tape and Specialty Backings)	67, 80, 96	Hybrid Forage Sorghum	
RP-MOR-SU, SU-1* Hybrid Sorghum Sudan grass (Seeds)	39	SANI-FLOR® Poultry House Floor Litter (Verxite)	69	Hybrid Grain Sorghum	
RUBARS* Rubber Anti-Adhesive Agent (Rubber Processing)	79, 84	Sanitizer, Glass Washing (Dish- washing and Kitchen Sanitation)	79, 83	Hybrid Sudan Grass	
Rubber and Rubber Products		Sanitizers, Hospital and Restaurant (Dishwashing and Kitchen Sanitation)	79, 83	Kentucky Blue Grass	
Anti-Adhesive Agents (Rubber Processing)	79, 84	See also Cleaners and Disinfectants		Lawn Grasses	
Dips, Slab and Sheet (Rubber Processing)	79, 84	Saran Products—See Polyvinylidene Chloride		Native Grasses	
Foam (Latex Foam)	99	Sarcosinates (Surfactants)	70	Vegetable	
Mold Release Agents	49	Saturating Papers (Specialty Papers)	61	Seed Starter (Vermiculite)	69
Paints, Anti-Corrosive	87	Sauces and Dressings	94, 110	Seed Treating Equipment and Chemicals	39
Reinforcing Agents (DAREX Copolymer Resins)	66, 78, 98	SBR Latices (DAREX Carpet and Textile Latices)	66	Selective Separation (Molecular Sieves)	54, 78
Separants (Rubber Processing)	79, 84	(DAREX Coating Emulsions)	66	Self-Expanding Cork Joint Filler, Compressed Joint Filler	62, 75
Stock Lubricant, Rubber Anti- Adhesive (Rubber Processing)	79, 84	SCALE-CLEEN® Scale and Deposit Remover (Miscellaneous Products)	79, 87	Semen	
Synthetic Rubber Container Sealing Compounds	62, 77, 97	Scale Inhibitors (Chelating Agents)	70, 78	Dairy and Beef	39
Rubber Mold Cleaners (Rubber Processing)	79, 84	Scale Removers (Miscellaneous Products)	79, 87	Semi-Synthetic Cracking Catalysts (Petroleum Catalysts)	54
Rubber Plate Gum	67	SCANDIA® Alfalfa Seeds	39	Separants (Rubber Processing)	79, 84
Rubber Waterstop, Formed Joint Sealer	62, 75	SCAP* Soft Drinks	107	Separators, Automotive Battery	61, 74, 97
RUFFUPP* Exposed Aggregate Retarder (Specialty Products)	62, 74, 103	SCAPPY* Soft Drinks	107	SEPOL® Oil Emulsion Breakers	87
Rug Backing Products		Scientific Balloons	64, 80, 97	SEPTISOL® Antiseptic Surgical Soap	88
Butadiene-Styrene Latices (DAREX Carpet and Textile Latices)	66	SDA*—Cement Grinding Aid	62, 94	Sequestering Agents (Chelating Agents)	70, 78
Butadiene-Styrene Rubber Reinforcing Resins (DAREX Copolymer Resins)	66, 78, 98	Sealants—See Caulks and Sealants		Service Products, Agricultural	37
DAWBAC Polypropylene Woven Fabric Backing	43	Sealers and Sealants, Automotive and Construction	74	SERVICISED® Construction Products	62, 74
		Sealers, Floor	62, 74, 83, 89, 99, 103	Set Retarding Additives	62
		Sealers, Wall	62, 103	SEXTOL* Methylcyclohexyl Alcohol	49
		Sealing Compound Application Machinery— See Container Products		Sheep Feeds	39

	PAGE
Shrimp and Shellfish	110
Shrinking Bags, Films and Pouches (Flexible Packaging)	42, 44, 77, 103
Shrink Tunnels, Flexible Packaging (Equipment)	42, 77, 99
Side Seam Cements, Containers	64, 103
Silica Products	
Alumina Silica Cracking Catalysts (Petroleum Catalysts)	54
Magnesia Silica Cracking Catalysts (Petroleum Catalysts)	54
Micron-Sized Silicas (SYLOID)	55, 78
Packaging Desiccants	54, 78
Silica Gel	54, 78
See also Desiccants and Adsorbents	
Silicofluorides	40
Ammonium Silicofluoride	
Magnesium Silicofluoride	
Zinc Silicofluoride	
Silicone High-Temperature Paints	87
Skin Creams, Protective, Antiseptic	78, 83, 88
SKLEEN® General Purpose Detergent	88
SLIDE-SHO® Vinyl Photographic Storage File Sheets	50
SLIDE-STORE® Vinyl Photographic Storage File Sheets	50
Slip-Resistant Surfacers (Floor Materials)	62, 74, 99
Sludge Conditioners (Boiler Water Treatments)	79, 87
Sludge Remover, Diesel Engine (Cleaners)	87
Slurry Fertilizers	40
SLURRY-MIX® Semi-Liquid Fertilizers	40
SM-30® Silica-Magnesia Fluid Cracking Catalyst (Petroleum Catalysts)	54
Smog Control Catalysts (Industrial Catalysts)	54, 78
Snacks	109, 110
SNOWFLAKE® Wax	52
Soap Manufacturing Water Softening Agents (Chelating Agents)	70, 78
Soaps	
Antiseptic Surgical	79, 83, 88
Industrial—See Cleaners	
Liquid Surgical	79, 88
Lubricating (Rubber Processing)	79, 84
SODASORB® Absorbent and Catalyst (Gas Absorbents)	65, 78, 99
Carbon Dioxide Absorbent (Gas Absorbents)	65, 78, 99
Soda Lime (Gas Absorbents)	65, 78, 99
Sodium Diuranate (Nuclear Materials)	81
Sodium Glucoheptonate (Chelating Agents)	70, 78
Soft Drinks	107

	PAGE
SOF-TISSUE® Draping Sheets	89
Soil Conditioner (Vermiculite)	69
SOKE® Electrolytic Cleaner	79, 83
Soldering Crystals	64, 76
Soldering Fluxes—See Liquid Fluxes, Solvents and Drawing Compounds	
Solders, Organic	64, 76
Sole Reinforcing Resins (DAREX Copolymer Resins)	66, 78, 98
SOLVAWAX® Wax	52
Solvent Cleaners (Transportation)	79, 85
Solvents	
Acetone	47
Agricultural Solvents	92
Alcohols—Alphabetically Indexed	
Aliphatic Solvents (Solvents)	52
Aromatic Solvents (Solvents)	52, 97
Chlorinated Solvents	52
Industrial Solvents (Ethyl Alcohol)	48, 99
Metal Degreasing Solvents (Transportation)	79, 85
Mineral Spirits	49
Oxygenated Solvents	52
Paint and Lacquer Thinners— See Paint Chemicals and Ingredients	
Sealing Compound Dispersing Solvents—See Container Products	
Transportation Equipment Cleaners	79, 85, 87
Sorbitol, Non-Crystallizing (Polyglycols)	51
Sorghum Seed	39
Sound Deadening Insulation and Materials (Automotive Products)	68 74
Sounding Balloons	65, 80, 97
Soybean Oil, Epoxidized (Epoxidized Oils)	48
SPANEX® Polystyrene Molded Foam Board Insulation	68
Specialty Papers	61
Specialty Plastic Products	50
SPEL BINDERS® Presentation Binders	50
Sphere Coatings, NB, W, Graphite and Other Metals (Nuclear Materials)	81
Sponge Rubber Joint Filler, Premolded	62, 75
SPRA-INSULATION® Spray Insulation for Metal Building Interiors (Vermiculite)	69
SPRA-JEL® Cleaner	85
Spray Booth Coatings (Metal-Working)	79, 84
SPRAY-TEX® Wall and Ceiling Texturing Material (Vermiculite)	69
SPREX® Food Plant and Industrial Cleaners	79, 83
SPREX A. C.® Food Plant and Industrial Cleaners	79, 83

	PAGE
Sprinkles, Chocolate (Vermiculite)	107
SRDA® Cement Grinding Aid	62, 94
S-S® Semi-Synthetic Fluid Cracking Catalyst (Petroleum Catalyst)	54
STABIFIX® Beer Stabilizer	55
STAINGUARD® Tinted Silicone Dampproofers (Waterproofing and Roofing Materials)	62, 75, 104
STAPHENE® Detergent Germicide	79, 88
START-RITE® Fertilizer, Water Soluble	40
STAYBRITE® Integral Masonry Colorant	62
S-TDA® Cement Grinding Aid	62, 94
Steam Cleaners (Metal-Working)	79, 84
(Transportation)	79, 85
Stearic Acid	103
STICKTITE® Printing Plate Adhesives	67
Stock Lubricant, Rubber Anti-Adhesive (Rubber Processing)	79, 84
STOP-PIT® Corrosion Inhibitor (Boiler Water Treatment)	87
STRETCH-EZE® Plastic Examination Gloves	89
STIK-EESE® Photographic Mounting Corners	50
STRYP® Paint Remover	79, 84
STRYP-AWAY® Paint Remover	79, 84
STYLE® Floor Finish	88
Styrene-Butadiene Copolymer Emulsions (DAREX Coating Emulsions)	66
Styrene-Butadiene Copolymer Latices (DAREX Carpet and Textile Latices)	66
Styrene-Butadiene Rubber Reinforcing Resin (DAREX Copolymer Resins)	66, 78, 98
SUDS® Washing Compound	79, 83
Sugar, Raw and Refined	94
Sulfates	
Aluminum Sulfate	37
Ammonium Sulfate	37
Cerium Sulfate (Rare Earths)	54
Nickel Sulfate	54
Thorium Sulfate (Nuclear Materials)	81
Uranyl Sulfate (Nuclear Materials)	81
Sulfite Paper	96
Sulfur, Dusting	40
Sulfuric Acids, Various Grades	40
SUPER-BONDSIT® Masonry Bonding Agent (Adhesives and Bonding Agents)	62, 74, 96
SUPER DI-CO® Lime Desealing Compound	84
SUPER FAST® Polishing Compound (Rare Earths)	54

	PAGE		PAGE		PAGE
SUPER-FILMEEN® Return Line		Synthetic Rubber Sealing Compounds—		Thermal Insulation Materials	68, 69
Corrosion Inhibitors	79, 87	See Container Sealing Compounds		Thermoplastic Cement, Can Side	
SUPER-KLOR® Food Plant Detergent	79, 83	Synthetic Waxes	52	Seam (Organic Solders)	64, 76
SUPER-MUL® Emulsion Cleaner	83	SYNTHOX® Printing Rollers	67	Thermoplastic Coatings	64, 76, 104
Superphosphate, Run of Pile (or		Syrups	110	Thickener, Thixotropic	54
Powdered) and Granulated	40			Thinner, Paint and Lacquer	104
Superphosphate, Single and Triple	40	<b>T</b>		THIOPOXY® Deck Tread System	
SUPER-S-A-F® Baker Pan Cleaner				Epoxy Surfacing System	
(Food Manufacturing-Processing)	79, 83	T-743 FLT® Paper Mill Felt Cleaner	79, 84	(Floor Materials)	62, 74, 99
SUPER-STRYPP® Paint Stripper	79, 84	Table Covers, Vinyl	52, 102	THIOPOXY® 60 Modified Epoxy	
Supplements, Animal Feed	37, 39, 40	Tags, Clothing, Base Stock		Topping for Concrete	
Supports, Catalyst (Mullite Pellets)	54	(Tape and Specialty Backings)	62, 75, 103	(Floor Materials)	62, 74, 99
Supports, Concrete,		TANTONE® Printing Rollers	67	THIOPOXY® 61 Corrosion-Resistant Coating	
Reinforcement Steel		Tape and Specialty Backings	62, 75, 96, 103	(Technical Coatings)	62, 75
(Specialty Products)	62, 74, 103	Backings, Pressure Sensitive Tape,		THIOPOXY® 62 Masonry Adhesive	
SUPRA-MIX® Cocoa Powder	107	Backings, Waterproof Sandpaper,		(Adhesives and Bonding Agents)	62, 74, 96
SUR-DET® Antiseptic Surgical		Tags, Clothing, Base Stock		THIOPOXY® 63 Epoxy Polysulfide Grout	
Detergent	88	Tape, Electrical Wire Identification		(Floor Materials)	62, 74, 99
Surface Active Agents—See Surfactants		(Polyethylene—High Density)	43	Thorium Compounds—See Nuclear Fuel	
Surface Coating Emulsions		Tape, Industrial	80, 96	Materials and Rare Earths	
(DAREX Coating Emulsions)	66	TART® Acid Cleaning Compound	84	THOROUGHNBRED® Fertilizer,	
Surface Preparation Aids		TDA® Cement Grinding Aid	62	Granulated (Mixed Fertilizers)	38
Cleaners—Alphabetically Indexed		Tea	107	Thorium Oxide (Rare Earths)	54
Coatings—Alphabetically Indexed		Technical Coatings	62, 75, 103	THUR-MA-LOX® Maintenance Coatings	87
Primers—Alphabetically Indexed		TEL-TALE® Indicating Desiccants		Tile, Floor	99
Solvents—Alphabetically Indexed		(Packaging Desiccants)	54, 78	Tile Reinforcing Resins, Floor	
Waterproofing Materials—		TEMP® Cream Abrasive Cleaner	83	(DAREX Copolymer Resins)	66, 78, 98
Alphabetically Indexed		Terbium Oxide (Rare Earths)	54	Tin	95
Surfacing Materials, Bridge and Deck		TERJ® Industrial Cleaner	84	Tin Soldering Flux (Liquid Fluxes)	64
(Bridge Products)	62, 75	TERRA® Peanuts, Salted	107	TIOTM Tri-iso-octyl Trimellitate	
Surfactants		TERRA-GRO® Vermiculite		(Plasticizers, Trimellitates)	51
Agricultural Surfactant	37	Soil Conditioner	69	Tissue Papers	96
Cleaners and Detergents	79, 83, 84, 85	TERRA-LAWN® Top Dressing for		Titanium Dioxide	52
Cocyl Sarcosine Acid and Salt	70	Golf Greens	69	T-KAL® Additive for Bottle Washing	79, 84
Lauroyl Sarcosine Acid and Salt	70	TERRA-LITE® Products		TNODTM Tri-n-octyl n-decyl Trimellitate	
Oleoyl Sarcosine Acid	70	Lawn and Garden Soil (Vermiculite)	69	(Plasticizers, Trimellitates)	51
Sarcosinates	70	Plant Aid (Vermiculite)	69	Tomato Products	94
Sarcosine	70	Potting Soil (Vermiculite)	69	Tongue and Groove Joint,	
Surgical Soap, Antiseptic	79, 83, 88	Seed Starter (Vermiculite)	69	Concrete Joint Former	62, 75
Surgical Soap, Liquid	79, 83, 88	Soil Conditioner (Vermiculite)	69	Tool Coatings, Thermoplastic—	
SWFDROP® Cotton Defoliant	38	Textile Auxiliaries	103	See Construction Materials	
SWFDRY® Cotton Defoliant	38	Textile Backing Latices (DAREX		Topping Compounds	
SWFGOLD® Insecticide Blend Additive	39	Carpet and Textile Latices)	66	(Floor Materials)	62, 74, 99
SWFKILL® Insecticides (Pesticides)	39	Textile Finishing Emulsions		TOTM Tri-2-ethylhexyl Trimellitate	
SWFSPREAD® Agricultural Surfactant	37	(DAREX Coating Emulsions)	66	(Plasticizers, Trimellitates)	51
Swimming Pool Paint		Textile Finishing Equipment	67, 79, 103	TOTM Tri-octyl Trimellitates	
(Technical Coatings)	62, 75, 103	Textile Print Blanket Washers and Dryers		(Plasticizers, Trimellitates)	51
Swine Feeds	40	(Textile Finishing Equipment)	67, 79, 103	Towels, Industrial	89
SYLOID® Micron-Sized Silicas	55, 78	Textile Printing Blankets	67, 79, 103	Toys, Plastic	104
SYLOX® Medicinal Body Powder	54, 78	Textile Processing Water Softening		TRAFFIX® Traffic and Zone Paint	
SYMENTREX® Masonry Color		Agents (Chelating Agents)	70, 78	(Technical Coatings)	62, 75, 103
Coating	62, 74, 103	Textiles, Cotton	104	TRANS-IRON® Feed Grade	
Synthetic Jet Engine Lubricants	49	Canvas	104	Ferrous Fumarates	37
Synthetic Petroleum Cracking Catalysts	54	Texture Finishes, Wall and Ceiling	69	TRANSIT-KLEEN® Industrial and	
				Automotive Cleaner	85

	PAGE
Transportation Equipment Cleaners	47, 85, 87
Trays, Plastic	42, 77, 101
TREASURE® Slip-Resistant Coatings (Floor Materials)	62, 74
TREAMIES® Concrete Handling Accessory (Specialty Products)	62, 74, 99
TRETOCONE CLEAR® Silicone Water Repellent (Specialty Products)	62, 75
TRETOP® Concrete Hardener (Specialty Products)	62, 74, 99
TRETOSCREED® Topping Adhesive	62, 75
TRETOSKALE® Exposed Aggregate Retarder (Specialty Products)	62, 74, 99
TRETOSURF® Concrete Colorant and Hardeners	62, 75
TREX® Acid Cleaner	84
Triacetin Plasticizer	101
Triethylene Glycol Caprylate-Caprate (Plasticizers, Esters, Aliphatic)	50
Triethylene Glycol Dicaprate (Plasticizers, Esters, Aliphatic)	50
Tri-2-ethylhexyl Trimellitate (Plasticizers, Trimellitantes)	51
Tri-iso-octyl Trimellitate (Plasticizers, Trimellitantes)	51
Trimellitantes, Plasticizers	51
Tri-n-octyl n-decyl Trimellitate (Plasticizers, Trimellitantes)	51
Tri-octyl Trimellitate (Plasticizers, Trimellitantes)	51
TRIPLEFLEX® Membrane Fabric (Waterproofing and Roofing Materials)	62, 75, 104
Triple Superphosphate	40
Triuranium Octoxide-U <sub>3</sub> O <sub>8</sub> (Nuclear Materials)	81
Tube Coatings, Collapsible (Thermoplastic Coatings)	64, 76, 104
Tubes, Collapsible Plastic	101
TUFFLEX® Sewer Joint Sealer	62, 75
Tuftings, Rug and Carpet	43
Tungsten	95
Turf Seeds	39
TYPOCRAFT® Printing Rollers	67

## U

Underbody Coatings	74, 104
Undercoat Shield	87
Underlay, Wood Floor (Floor Materials)	62, 74, 99
Unirradiated Scrap Recovery (Nuclear Fuel Materials)	81

	PAGE
Uranium Compounds (Nuclear Materials)	81
Urea	40
Urea-Formaldehyde Resin	104
Urea Solutions	40

## V

"V" Film—PVC Box Overwrapping	77
VPD® Visible-Protected Displays	50
VAC-EZE® Floor Cleaner	83
Vacuum Sealing Equipment (Flexible Packaging Equipment)	42, 77, 99
VANTA® Cocoa Powder	107
Varnishes	104
Vegetable Seeds	39
Vehicle Washing Products (Transportation)	79, 85
VERA-SMOOTH®, VERA-SOFT®, Examination Table Paper Rolls	89
VERATEX® Professional Disposable Products	89
Vermicelli	107
Vermiculite Ore	69
Vermiculite Products and Insulating Materials	69
VERSAPRINT® Textile Blankets For Roller Printing Equipment	67
VERTISEAL® Construction Sealants (Joint Sealing Compounds)	62, 75
Verxite Exfoliated Hydrobiotite	69
VESCO SEAL® Wood Floor Seal	88
VES-COTE® Floor Finish	88
VESPHENE® Germicidal Detergent	88
VESTA-GLOSS® Floor Finish	88
VESTAL® Laboratories Products	88
VESTA-SOL® Liquid Surgical Soap	88
VH #36—Cocoa/Chocolate Combinations	107
VH #300—Cocoa/Chocolate Combinations	107
VIBRIN® Molding Compounds	49
VIBRIN-MAT® Molding Compounds	49
VIBRIN-MIX® Molding Compounds	49
VIBRO FOIL® Non-Shrink Grout (Floor Materials)	62, 74, 99

### Vinyl Products

VINALON® Vinyl Fabric	52
Vinyl Acetate Copolymer Emulsions (DAREX Coating Emulsions)	66
(EVERFLEX Paint Emulsions)	66, 101
Vinyl Acetate Homopolymer Emulsions (DARATAK Adhesive Emulsions)	65, 96
Vinyl Coated Paper	96

	PAGE
Vinyl Products (cont'd)	
Vinyl Compounds	52
Vinyl Fabrics (Vinyl Film, Supported)	52, 76, 102
Vinyl Film and Sheet, Supported and Unsupported	52, 76, 102
Vinyl Film, Rigid	52, 76, 102
Vinyl Floor Tile	99
Vinyl Foam (Latex Foam)	99
VIRGOSAN® Cotton Seed	39
VISI-BELLE® Transparent Report Covers	50
VITAL® Fertilizer	38
VITRIFLEX® Sewer Joint Sealer	62, 75
VITROX-C® Polishing Compound (Rare Earths)	54
Vodka	94
"VPM" Polyvinyl Chloride Film Produce Packaging	77
VULCAFLEX® Masonry Coating (Technical Coatings)	62, 75, 103
VULCATEX® Caulking Compound	62, 74
VYLENE® By Elm, Calendered Polyvinyl Chloride Film (Vinyl Film, Unsupported)	52

## W

Wall and Ceiling Texture Finish (Vermiculite)	69
Wallboard Fireproofing Additive (Perlite) (Vermiculite)	68, 69
Wall Coverings, Vinyl	52, 76, 102
Wall Insulation	
Glass Fiber Insulation	68
Polystyrene Molded Foam Board	68
Vermiculite	69
Washers, Textile Print Blanket (Textile Finishing Equipment)	67, 79, 103
Wash Primer	104
Washroom Supplies (Hand Towels, Drinking Cups)	89
Water Fluoridation (Hydrofluosilicic Acid)	38
WATERFOIL® Masonry Coating (Waterproofing and Roofing Materials)	62, 75
Waterproof Canvas	104
Waterproofing and Roofing Materials	62, 75, 104
Water Reducing Admixtures, Concrete and Mortar	61, 74, 104
Water Removal Products— See Desiccants and Adsorbents	
Water Repellent, Concrete (Densifiers and Water Repellents)	61, 74, 98

	PAGE
Water Repellent Insulation	68
Water Soluble Fertilizers	37
Waterstops	62, 75
<b>Water Treatments</b>	
Algicides (Biocides)	79, 87
Alum (Aluminum Sulfate)	37
Anti-Foam Treatments (Boiler Water Treatments)	79, 87
Anti-Foulants (Cooling Water Treatments)	79, 87
Biocide/Bactericides	79, 87
Boiler Water Treatments	79, 84, 87
Chelating Agents	70, 78
Cooling Water Treatments	79, 84, 87
Corrosion Inhibitors (Boiler Water Treatments)	79, 87
(Cooling Water Treatments)	79, 87
(Return Line Treatments)	79, 87
Deposit Inhibitors (Boiler Water Treatments)	79, 87
(Cooling Water Treatments)	79, 87
(Return Line Treatments)	79, 87
Dispersants (Boiler Water Treatments)	79, 87
(Cooling Water Treatments)	79, 87
(Hydrofluosilicic Acid)	38
Oxygen Scavengers (Boiler Water Treatments)	79, 87
Return Line Treatments	79, 87
Scale Inhibitors	70, 79, 87
Silicofluorides	40
Sludge Conditioners (Boiler Water Treatments)	79, 87
WAX-AWAY® Floor Wax Remover	83
Wax-Coated Boxes (Folding Boxes)	95
Wax Emulsion—See Leather Chemicals	
<b>Waxes, Natural and Synthetic</b>	
Beeswax	48
Candelilla	48
Carnauba	48
Ceresine	48
EMULSOWAX	48
Japan Wax	49
Montan Wax	50
Ouricury	50
Ozokerite	50
Synthetic Waxes	52
Wax Removers (Floor Treatment Materials)	79, 83, 88
Weather Balloons	64, 80, 97
Weed Killers (Pesticides)	39, 93

	PAGE
Wetting Agents, Container	64, 104
Wetting Agents, Battery Separator	61
WGA-2* Cement Grinding Aid	62
WHITNEY* Lawn Seeds	39
WILSON® Soda Lime Carbon Dioxide Absorbent (Gas Absorbents)	65, 78, 99
Wire, Resistance	95
Wolfram (Tungsten)	95
WONDER-GRO® Granulated Fertilizer	38
Wood Fillers and Finishers—See Lacquers	
Wood Lacquers	104
Woven Fabric, Polypropylene (DAWBAC)	43
WRAP KOTE* Packaging	44
Wrapping Paper (Kraft Paper)	90
WRDA® Water-Reducing Admixture for Concrete	61, 74

## X

X-1591® (Packaging Desiccants)	54
X-CAT® Automotive Exhaust Catalysts (Industrial Catalysts)	54
X-OX® Polishing Compound (Rare Earths)	54
X-PAL® Polishing Compound (Rare Earths)	54
XZ-15* Zeolite Fluid Cracking Catalyst (Petroleum Catalysts)	54
XZ-25* Zeolite Fluid Cracking Catalyst (Petroleum Catalysts)	54
XZ-25 PLUS* Zeolite Fluid Cracking Catalyst (Petroleum Catalysts)	54
XZ-36* Zeolite Fluid Cracking Catalyst (Petroleum Cracking Catalysts)	54

## Y

YARN 71*, Polypropylene Ribbons (DAWBAC)	43
Yarns, Polypropylene (Polypropylene)	43
Yarns, Shrinker M.O. (Polyethylene— Low and Medium Density)	43
YIELD-MOR* Examination Table Paper Rolls	89
Ytterbium Oxide (Rare Earths)	54
Yttrium Oxide (Rare Earths)	54

## Z

	PAGE
Zeolite Containing Catalysts (Petroleum Catalysts)	54
ZEPHYROID® Floor Cleaner	83
Zinc Silicofluoride (Silicofluorides)	40
ZINK-ON* Zinc Phosphating Compound	83
ZIP-IT* Spray Booth Masking Compound	84
ZOLV® Safety Solvent	84
ZONATILE® Vermiculite Concrete Precast Roof Slabs	69
ZONOLITE® Products	69
Acoustical Plaster	
Acoustical Plastic Coating	
Attic Fill—For Insulation Between Attic Joint Spaces	
Cold Storage Insulation	
Concrete Aggregate	
Farm Building Insulation	
Flotation Billets	
High Temperature Insulation	
Industrial Insulation	
Laminates	
Loose Fill Insulation	
Masonry Fill Insulation	
MBI Metal Building Insulation	
MONASTITE Cementitious Masonry Coating	62
MONO-KOTE Fireproofing	
NOISE-GUARD Sound Conditioning for Walls, Floors and Ceilings	
Perimeter Insulation	
Plaster Aggregate	
SPRA-INSULATION Insulating and Acoustical Material for Spray Application	
SPRAY-TEX Wall and Ceiling Texturing Material	
SUPER-BOARD Polystyrene Molded Foam Board Insulation	
<b>Numerical Entries</b>	
"4x4"® Animal and Poultry Feeds	39
610 Phthalate	51
610 Adipate	50
788® Alfalfa (Seeds)	39
810 Adipate	50
810 Phthalate	51
988® Red Clover (Seeds)	39
45-11* Floor Cleaning Compound (Floor Materials)	62, 74, 99

**GRACE**

**Operating Units**

*Manufactures and markets five major product lines — fertilizers, pesticides, feed, seed and animal insemination products. Fertilizers include NPK, mixed fertilizers chemically combined or bulk blended in granular, liquid or slurry form; phosphate products — diammonium and monammonium phosphate, single and triple superphosphate, sulfuric acid, phosphoric acid and phosphate rock; nitrogen products — anhydrous ammonia, prilled urea, nitrogen solutions, ammonium sulfate, calcium ammonium nitrate, aqua ammonia and urea solutions. Related products include specialty fertilizers, agricultural chemicals, feed supplements, premixes, animal health products, seed corn, pasture, turf and vegetable seeds and progeny proved semen for dairy and beef cattle.*

#### Headquarters Office

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New York, New York 10005  
(212) 344-1200

#### ● Plants

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| <b>2</b> Cresco Fertilizers Ltd.<br>2-6 Railway Parade<br>Bayswater (Perth) W. A.<br>Tel. 791-661             | <b>10</b> COLORADO, Lucerne (80646)<br>Farr Better Feeds<br>P. O. Box 52<br>(303) 352-3260  | <b>22</b> ILLINOIS, Dimmick (61301)<br>Rt. 2, LaSalle<br>(815) 224-1520  |
| <b>3</b> Cresco Fertilizers Ltd.<br>Cortio Quay<br>North Geelong, Victoria<br>Tel. 7-2901                     | <b>11</b> FLORIDA, Bartow (33830)<br>P. O. Box 471<br>(813) 533-2171  | <b>23</b> ILLINOIS, Henry (61537)<br>P. O. Box 167<br>(309) 364-2361   |
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| <b>FRANCE</b>   | <b>14</b> GEORGIA, Perry (31069)<br>P-A-G<br>P. O. Box 284<br>(912) 987-1473  | <b>27</b> ILLINOIS, Mount Vernon<br>(62864)<br>Rudy Patrick<br>10th & Casey Streets<br>P. O. Box 783<br>(618) 244-0127 |
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| <b>8</b> Ochoa Fertilizer Co., Inc.<br>Guanica  |   |  |

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- 32 ILLINOIS, Rock Falls (61071)  
De Kalb  
105 Dixon Avenue  
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- 33 ILLINOIS, Walnut (61376)  
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(47108)  
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- 43 INDIANA, Fritchton (47591)  
Blue River Feeds  
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- 44 INDIANA, Hillsboro (47949)  
Blue River Feeds  
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(317) 798-3792
- 45 INDIANA, Logansport (40947)  
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- 46 INDIANA, New Albany (47150)  
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- 47 IOWA, Ames (50010)  
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- 48 IOWA, Atlantic (50022)  
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201 Linn Street  
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- 49 IOWA, Cherokee (51012)  
Walnut Grove Products  
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- 50 IOWA, Exira (50076)  
Walnut Grove Products  
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- 51 IOWA, Fonda (50540)  
Walnut Grove Products  
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- 52 IOWA, Grinnell (50112)  
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- 53 IOWA, Independence (50644)  
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- 64 KENTUCKY, Hopkinsville  
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- 78 NEBRASKA, Fremont (68025)**  
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- 79 NEBRASKA, Osceola (68651)**  
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- 80 NEBRASKA, Norfolk (68701)**  
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Carolina Nitrogen Corp.  
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105 S. 11th St., P.O. Box 538  
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- 111 WASHINGTON, Touchet (99360)**  
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(509) 394-2321

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- 113 Cresco Fertilizers Ltd.**  
110 North Terrace  
Adelaide, S.A.  
Tel. 51-3061
- 114 Cresco Fertilizers Ltd.**  
38 Fenwick Street  
Geelong, Victoria  
Tel. 9-81-51

**AGRICULTURAL CHEMICALS GROUP**

**▲ Sales Offices (continued)**

- 115** Cresco Fertilizers Ltd.  
Berran Terrace  
Box 352  
Port Lincoln, S. A.  
Tel. 965
- 116** Cresco Fertilizers Ltd.  
Box 37  
Wallaroo, S A.  
Tel. 120
- BERMUDA**
- 117** Federation Chemicals Limited  
P.O. Box 314  
Hamilton
- FRANCE**
- 118** Societe Atlantique d'Engrais  
Chimiques  
38 Rue de Bassano  
Paris 8e  
Tel. 359-05-89
- PUERTO RICO**
- 119** Caribe Nitrogen Corporation  
P.O. Box 3128  
G. P. O. San Juan  
Tel. San Juan 776-8020
- 120** Ochoa Fertilizer Co., Inc.  
Avenida Munoz Rivera, Stop 27  
Hato Rey  
Tel. San Juan 767-3205
- TRINIDAD**
- 121** Federation Chemicals Limited  
Independence Square  
P.O. Box 952  
Port-of-Spain  
Tel. Pos 36252
- UNITED STATES**
- 122** ALABAMA, Guntersville  
(35976)  
Rudy Patrick  
P.O. Box 581  
(205) 582-5181
- 123** ARKANSAS, North Little Rock  
(72115)  
Rudy Patrick  
1120 Main St.  
(501) 374-0301
- 124** ARKANSAS, Springdale  
(72764)  
Rudy Patrick  
120 Graham Street  
(501) 751-4437
- 125** COLORADO, Lucerne (80646)  
Farr Better Feeds  
P.O. Box 52  
(303) 352-3260
- 126** FLORIDA, Bartow (33830)  
P.O. Box 471  
(813) 533-5171
- 127** FLORIDA, Fort Pierce (33451)  
P. O. Box 36  
(305) 461-7020
- 128** FLORIDA, Tampa (83601)  
34th St. & 3rd Ave.  
(813) 248-3101
- 129** GEORGIA, Atlanta (30310)  
Rudy Patrick  
609 Murphy Ave. S.W.  
P. O. Box 10737, Station A  
(404) 755-1645
- 130** GEORGIA, Pelham (30331)  
Rudy Patrick  
P. O. Box 188  
(912) 294-4953
- 131** IDAHO, Caldwell (83605)  
Rudy Patrick  
Paynter & Aven Streets  
(208) 459-9041
- 132** IDAHO, Fruitland (83619)  
Miller Products  
P. O. Box 38  
(208) 452-1263
- 133** IDAHO, Nampa (83651)  
Rudy Patrick  
908 Front Street  
(208) 466-9218
- 134** IDAHO, Twin Falls (83301)  
Rudy Patrick  
202 Fourth Avenue South  
(208) 733-8055
- 135** ILLINOIS, Chicago (60601)  
75 E. Wacker Drive  
(812) 372-6424
- 136** ILLINOIS, DeKalb (60115)  
DeKalb  
220 North Seventh St.  
(815) 756-6317
- 137** ILLINOIS, Decatur (62526)  
P. O. Box 2208  
(217) 877-7451
- 138** ILLINOIS, Galesburg (61401)  
P. O. Box 1072  
(309) 342-1148
- 139** ILLINOIS, Grand Ridge (61325)  
P-A-G  
(815) 249-6820
- 140** ILLINOIS, Henry (61537)  
P. O. Box 167  
(309) 364-2361
- 141** ILLINOIS, Mount Vernon  
(62864)  
Rudy Patrick  
10th & Casey Sta., P. O. Box 783  
(618) 244-0127
- 142** ILLINOIS, Princeton (61356)  
Rudy Patrick  
R. R. 1, P. O. Box 404  
(815) 872-1612
- 143** ILLINOIS, Rock Falls (61071)  
DeKalb  
105 Dixon Avenue  
(815) 625-4546
- 144** INDIANA, Carmel (46032)  
Rudy Patrick  
Box 368  
(317) 846-2527
- 145** INDIANA, Edinburg (46124)  
Blue River Feeds  
Shelby & Center Cross Sta.  
(812) 526-5507
- 146** INDIANA, Fritchton (47591)  
Blue River Feeds  
P. O. Box 183, Vincennes  
(812) 726-2482
- 147** INDIANA, Hillsboro (47949)  
Blue River Feeds  
P. O. Box 74  
(317) 798-3792
- 148** INDIANA, Logansport (40947)  
Blue River Feeds  
State Rd. 35 South  
(219) 753-6279
- 149** INDIANA, New Albany (47150)  
Grant Line Rd., P. O. Box 350  
(812) 945-6671
- 150** INDIANA, Campbellsburg  
(47108)  
P. O. Box 22  
(812) 679-2801
- 151** INDIANA, Armstrong (47712)  
R. R. #7, Evansville  
(812) 963-3428
- 152** INDIANA, Chandler (47610)  
R. R. #2—State Rd. 62W  
(812) 925-6413
- 153** INDIANA, Ft. Branch (47533)  
400 S. McCreary St.  
(812) 753-4291
- 154** INDIANA, Scottsburg (47170)  
R. R. #3  
(812) 752-4951
- 155** INDIANA, Fillmore (46128)  
(317) 246-6126
- 156** IOWA, Atlantic (50022)  
Walnut Grove Products  
201 Linn Street  
(712) 243-1030

- 157 IOWA, Cherokee (51012)**  
Walnut Grove Products  
P. O. Box 543  
(712) 255-5173
- 158 IOWA, Grinnell (50112)**  
Rudy Patrick  
829 Spring St., P. O. Box 148  
(515) 238-5379
- 159 IOWA, Iowa City (52240)**  
Walnut Grove Products  
P. O. Box 6308  
Coralville Branch  
(319) 351-2550
- 160 IOWA, Monroe (50170)**  
P-A-G  
(515) 259-2131
- 161 IOWA, Perry (50220)**  
P. O. Box 308  
(515) HO 5-3516
- 162 IOWA, Sioux City (51102)**  
Rudy Patrick  
21st & Clark, P. O. Box 844  
(712) 255-4270
- 163 IOWA, Waverly (50677)**  
Walnut Grove Products  
P. O. Box 615  
(319) 352-2515
- 164 IOWA, Waverly (50677)**  
P-A-G  
Box 665  
(319) 352-1020
- 165 KANSAS, Garden City (67846)**  
Farr Better Feeds  
P. O. Box 954  
(316) 276-8236
- 166 KANSAS, Hutchinson (67501)**  
Rudy Patrick  
Jefferson & D Sta.  
P. O. Box 568  
(316) 663-4469
- 167 KANSAS, Wichita (67218)**  
P. O. Box 4045  
(316) 838-4239
- 168 KENTUCKY, Franklin (42134)**  
P-A-G  
Route 3  
(502) 586-4401
- 169 KENTUCKY, Irvington (40146)**  
P. O. Box 362  
(502) 547-4171
- 170 KENTUCKY, Owensboro (42301)**  
1425 E. 12th St.  
P. O. Box 1503  
(502) 683-6938
- 171 MAINE, Searsport (04974)**  
Rt. 1, Kidders Point Road  
(207) 548-2525
- 172 MARYLAND, Baltimore (21203)**  
(21226)  
Hill Plant  
(301) 355-6161
- 173 MARYLAND, Baltimore**  
101 North Charles Street  
(301) 727-3900
- 174 MICHIGAN, Lansing (48904)**  
2401 North High Street  
(517) 482-0826
- 175 MINNESOTA, Marshall (56258)**  
Walnut Grove Products  
P. O. Box 636  
(507) 532-2249
- 176 MISSOURI, Cameron (64429)**  
P. O. Box 13  
(816) 632-7261
- 177 MISSOURI, Carrollton (64633)**  
19th and Sommers  
(816) 542-0540
- 178 MISSISSIPPI, Columbus (39701)**  
Rudy Patrick (Sawan)  
920 Fourth St. South  
(601) 328-5010
- 179 MISSOURI, Corder (64021)**  
(816) 394-4931
- 180 MISSOURI, Houstonia (65333)**  
(816) 568-3431
- 181 MISSOURI, Jefferson City (65101)**  
Rudy Patrick  
1011 West Miller Street  
(314) 636-3309
- 182 MISSOURI, Joplin (64802)**  
P. O. Box 1406  
(417) MA 4-6900
- 183 MISSOURI, Kansas City (64101)**  
Rudy Patrick  
1212 West 8th Street  
(816) 842-6830
- 184 MISSOURI, Malta Bend (65339)**  
(816) 595-2280
- 185 MISSOURI, Maryville (64468)**  
P. O. Box 36  
(816) 582-3854
- 186 MISSOURI, St. Joseph (64501)**  
Rudy Patrick  
320 South Third St.  
(816) 233-0296
- 187 MISSOURI, St. Louis (63105)**  
7701 Forsythe Boulevard  
(314) 863-9500
- 188 MISSOURI, Trenton (64683)**  
P. O. Box 220  
(816) 359-3316
- 189 MISSOURI, Triplett (65286)**  
(816) 634-2731
- 190 MISSOURI, Waverly (64096)**  
P. O. Box 132  
(816) 493-2500
- 191 NEBRASKA, Fremont (68025)**  
P-A-G  
19th & Somers  
(402) 721-3260
- 192 NEBRASKA, Norfolk (68701)**  
Walnut Grove Products  
P. O. Box 976  
(402) 371-5582
- 193 NEBRASKA, York (68467)**  
Walnut Grove Products  
118 West 8th Street  
(402) 362-4466
- 194 NEW YORK, Buffalo (14210)**  
Rudy Patrick  
(Craver Dickinson)  
567 Exchange Street  
(716) 852-4356
- 195 NEW YORK, Buffalo (14211)**  
Rudy Patrick (Whitney)  
52 Leslie Street  
(716) 896-1111
- 196 NORTH CAROLINA, Cary (27511)**  
P. O. Box 357  
(919) 467-2371
- 197 NORTH CAROLINA, Charlotte (28201)**  
Rudy Patrick  
P. O. Box 10603  
(704) 333-0196
- 198 NORTH CAROLINA, Raleigh (27602)**  
P. O. Box 68  
(919) 834-3131

**AGRICULTURAL CHEMICALS GROUP**

- ▲ Sales Offices (continued)**
- 199 NORTH CAROLINA,**  
Statesville (28677)  
P. O. Box 1163  
(704) 872-6361
- 200 NORTH CAROLINA,**  
Wilmington (28401)  
Carolina Nitrogen Corp.  
Wachovia Bank & Trust Bldg.  
(919) 763-0171
- 201 NORTH CAROLINA,**  
Wilmington (28402)  
P. O. Box 368  
(919) 762-5258
- 202 OHIO, Bowling Green (43402)**  
P-A-G  
P. O. Box 176  
241 North Main Street  
(419) 362-5208
- 203 OHIO, Columbus (43216)**  
1465 East 17th Avenue  
(614) 294-4413
- 204 OKLAHOMA, Chickasha**  
(73018)  
102 N. First St.  
(405) 224-4273
- 205 OKLAHOMA, Muskogee**  
(74401)  
P. O. Box 456  
(918) 683-1022
- 206 OKLAHOMA, Tulsa (74107)**  
P. O. Box 9416  
(918) 446-9254
- 207 OREGON, Corvallis (97330)**  
Rudy Patrick  
5225 Hoyt Street  
(503) 752-7804
- 208 OREGON, Halsey (97348)**  
Rudy Patrick  
820 First Street  
(503) 369-2251
- 209 OREGON, Harrisburg (97446)**  
Rudy Patrick  
5450 Bowers Road  
(503) 995-6334
- 210 OREGON, Hopedale (97305)**  
Rudy Patrick  
Route 1, Box 8R  
(503) 363-4938
- 211 OREGON, Independence**  
(97351)  
Rudy Patrick  
225 E Street  
(503) 838-1861
- 212 OREGON, Medford (97501)**  
Miller Products  
P. O. Box 253  
(503) 779-1735
- 213 OREGON, Monroe (97456)**  
Rudy Patrick  
(503) 847-3231
- 214 OREGON, Plainview (97377)**  
Rudy Patrick  
R. 1, Shedd  
(503) 258-5820
- 215 OREGON, Portland (97218)**  
Miller Products  
7737 N.E. Killingsworth  
(503) 252-3491
- 216 OREGON, Roseburg (97470)**  
Rudy Patrick  
P. O. Box 1082  
(503) 672-4961
- 217 OREGON, Shaw (97325)**  
Rudy Patrick  
R. 1, P. O. Box 468, Aumsville  
(503) 364-8951
- 218 SOUTH CAROLINA,**  
Charleston (29402)  
P. O. Box 858  
(803) 722-3321
- 219 TENNESSEE, Knoxville**  
(37919)  
Rudy Patrick  
P. O. Box 10062  
(615) 588-2489
- 220 TENNESSEE, Memphis**  
(38103)  
147 Jefferson Avenue  
(901) 527-4541
- 221 TENNESSEE, Nashville**  
(37209)  
P. O. Box 7665  
(615) 269-4536
- 222 TEXAS, Amarillo (79109)**  
P. O. Box 7488  
(806) 355-6551
- 223 TEXAS, El Paso (79963)**  
Southwest Fertilizer  
P. O. Box 9218  
(915) 532-5604
- 224 TEXAS, Garland (75040)**  
Rudy Patrick  
414 Avenue A, P. O. Box 218  
(214) 276-6165
- 225 TEXAS, Hereford (79045)**  
Farr Better Feeds  
P. O. Box 566  
(806) 364-3690
- 226 TEXAS, Lubbock (79401)**  
Southwest Fertilizer  
Route 3, P. O. Box 191  
(806) 762-0691
- 227 UTAH, Delta (84624)**  
Rudy Patrick  
(801) 864-5391
- 228 VIRGINIA, Norfolk (23501)**  
P. O. Box 1321  
(703) 622-5752
- 229 VIRGINIA, South Hill (23970)**  
P. O. Box 277  
(703) 447-3314
- 230 WASHINGTON, Moses Lake**  
(98837)  
Rudy Patrick  
504 Commercial Street  
(509) 756-4581
- 231 WASHINGTON, Quincy (98848)**  
Rudy Patrick  
6th & East Division  
P. O. Box 60  
(509) 787-2212
- 232 WASHINGTON, Sunnyside**  
(98944)  
Rudy Patrick  
106 South 11 St., P. O. Box 538  
(509) 837-4221
- 233 WASHINGTON, Touchet**  
(99360)  
Rudy Patrick  
P. O. Box 106  
(509) 394-2321
- 234 WASHINGTON, Yakima**  
(98901)  
Miller Products  
P. O. Box 614  
(509) 248-5831
- 235 WISCONSIN, Dodgeville (53533)**  
Walnut Grove Products  
P. O. Box 121  
(608) 935-3318
- CANADA**
- 236 Ontario, Tecumseh**  
P-A-G  
Box 3006  
(519) 735-9753

**AMERICAN BREEDERS SERVICE, INC.**

Animal insemination service for dairy and beef cattle.

**Headquarters**

DeForest, Wisconsin 53532  
(608) 846-3721

● Plant

UNITED STATES

237 WISCONSIN, DeForest (53532)  
(608) 846-3721

▲ Sales Offices

COLOMBIA

238 Carrera 8 No. 13-42  
Bogota, D.E.  
Tel. 42-32-24

NICARAGUA

239 4a Ave. Sur. Oeste  
No. 401  
Managua, D.N.  
Tel.

SPAIN

240 Calle Calaf 48-1-2  
Barcelona  
Tel. 2278752

VENEZUELA

241 Edificio Yonekura, Apto. 71  
Av. 4 Bellavista  
Maracaibo, Edo. Zulia  
Tel. 81719

UNITED STATES

242 ALABAMA, Dothan (36301)  
Route 5, Box 288-A  
(205) 792-6019

243 ARKANSAS, Eudora (71640)  
(501) EL 5-4634

244 CALIFORNIA, Fresno (93705)  
3692 W. Shields Ave.  
(209) 284-8608

245 CALIFORNIA, Modesto (95352)  
573 Tully Rd.  
P. O. Box 3717  
(209) 529-3736

246 CALIFORNIA, Palo Alto  
(94303)  
2425 Pulgas Ave.  
(415) 322-6278

247 CALIFORNIA, San Jose  
(95127)  
361 Valley View Ave.  
(408) 258-7911

248 CALIFORNIA, Sebastopol  
(95472)  
6314 Lone Pine Rd.  
(707) 823-6066

249 COLORADO, Longmont (80501)  
814 Hillside Dr.  
(303) 776-4248

250 FLORIDA, Jacksonville (32207)  
4138 Piper Drive  
(904) 733-2882

251 FLORIDA, Winter Park (32789)  
1822 Maywood Road  
(306) 647-2007

252 GEORGIA, Athens (30604)  
316 Fortson Drive  
(404) 546-1191

253 HAWAII, Waianae, Oahu  
(96792)  
P. O. Box 257  
587-115

254 ILLINOIS, Freeport (61032)  
P. O. Box 578  
(815) 232-9980

255 ILLINOIS, Mt. Prospect (60056)  
401 E. Prospect  
(312) 259-0810

256 INDIANA, Lamar (47550)  
P. O. Box 166  
(812) 529-2555

257 INDIANA, South Whitley  
(46787)  
701 No. Calhoun St.  
(219) 723-4383

258 IOWA, Hampton (50441)  
134 Windsor Blvd.  
(515) 456-4624

259 KANSAS, Hiawatha (66434)  
Route 2  
(913) 742-3335

260 KANSAS, Hillsboro (67063)  
307 N. Madison  
(316) 947-3373

261 KANSAS, Overland Park  
(66204)  
6900 W. 80th St.  
(913) 649-3685

262 KANSAS, Wichita (67212)  
557 Red Barn Lane  
(316) 722-3171

263 KENTUCKY, Smithfield  
(40068)  
(502) 824-6271

264 MICHIGAN, Battle Creek  
(49017)  
Route 4, Box 622  
(616) 721-3265

265 MINNESOTA, Almelund  
(55002)  
(612) 583-2505

266 MINNESOTA, Chatfield  
(55923)  
228 Harwood Ave. N.E.  
(507) 867-3559

267 MINNESOTA, Forest Lake  
(55025)  
Box 189  
(612) 464-4208

268 MINNESOTA, Hutchinson  
(55350)  
86 McLeod Ave.  
(612) 896-4353

269 MISSISSIPPI, Tupelo  
(38801)  
401 Maynard Dr.  
Box 842  
(601) 842-0731

270 MISSOURI, Springfield (65804)  
1258 East Greenwood  
(417) TU 1-7623

271 MONTANA, Billings (59102)  
P. O. Box 20496  
(406) 259-9954

272 MONTANA, Miles City (59301)  
Professional Building  
P. O. Box 794  
(406) 232-4400

273 NEBRASKA, Gothenburg  
(69138)  
Route 1, Box 7-A  
(308) 537-2758

274 NEBRASKA, Omaha (68107)  
829 Livestock Exchange Blvd.  
(402) 734-1757

275 NEW HAMPSHIRE, Stratham  
(03885)  
Stratham Heights Road  
(603) 772-3970

276 NEW MEXICO, Albuquerque  
(87102)  
Rt. 1, P. O. Box 6416  
(505) 636-2771

277 NEW YORK, Honeoye Falls  
(14472)  
56 York Street  
(716) 624-3675

278 NEW YORK, Laurens (13796)  
R. D. 1  
(607) 263-5518

**AGRICULTURAL CHEMICALS GROUP**

- |  |  |   |
|--|--|---|
| <b>279</b> NEW YORK, Oneonta (13820)<br>105 Oneida St.<br>(607) 432-4382                         | <b>286</b> SOUTH CAROLINA, Rock Hill<br>(29730)<br>1191 India Hook Rd.<br>(803) 328-1785 | <b>293</b> WISCONSIN, Appleton (54911)<br>1107 Gillett Street<br>(414) 739-4577           |
| <b>280</b> NORTH CAROLINA,<br>Black Mountain (28711)<br>120 West State Street<br>(704) 669-8728  | <b>287</b> SOUTH DAKOTA, Armour<br>(57313)<br>R. R. 1<br>(605) 67R                       | <b>294</b> WISCONSIN, De Forest<br>(53532)<br>(608) 846-3721                              |
| <b>281</b> NORTH DAKOTA, Mandan<br>(58554)<br>909 1st Avenue N.W.<br>(701) 663-6433              | <b>288</b> TENNESSEE, Lebanon (37067)<br>801 Castle Heights Ave.<br>(615) 444-8722       | <b>295</b> WISCONSIN, Dodgeville<br>(53533)<br>614 West Fountain Street<br>(608) 935-5557 |
| <b>282</b> OKLAHOMA, Roeston (73855)<br>(405) LE 3-2920  | <b>289</b> TEXAS, Amarillo (79109)<br>2100 Polk Street<br>(806) 372-4363                 | <b>296</b> WISCONSIN, Fall Creek<br>(54742)<br>Route 1<br>(715) 877-4492                  |
| <b>283</b> OREGON, Portland (97266)<br>9139 S.E. Foster Rd.<br>P. O. Box 66008<br>(503) 771-6522 | <b>290</b> TEXAS, La Grange<br>Route No. 2<br>Box 250<br>(713) CH 9-2787                 | <b>297</b> WISCONSIN, Fort Atkinson<br>(53538)<br>202 Memorial Drive<br>(414) 563-3337    |
| <b>284</b> PENNSYLVANIA,<br>Mechanicsburg (17055)<br>411 Reservoir Rd.<br>(717) 766-2272         | <b>291</b> TEXAS, Weatherford (76086)<br>P. O. Box 232<br>(817) 594-7020                 | <b>298</b> WISCONSIN, Madison (53704)<br>P. O. Box 3143<br>(608) 249-2176                 |
| <b>285</b> PENNSYLVANIA,<br>Tunkhannock (18657)<br>P. O. Box 1<br>(717) 836-7791                 | <b>292</b> UTAH, Sandy (84070)<br>1407 E. 8730 South<br>(801) 255-7253                   | <b>299</b> WYOMING, Sheridan (82801)<br>380 Smith St.<br>(307) 674-6714                   |

**PRODUCTS**

**Agricultural Surfactant - SWFSPREAD**

A liquid, non-ionic wetting, penetrating and dispersing agent for use with agricultural and garden herbicides. Available in 1-, 5-, 30- and 55-gallon containers.

- 105
- ▲ 146 - 147 - 174 - 218 - 223 - 226

**Aluminum Sulfate (Alum)**

A colorless, odorless, crystalline, water-soluble solid used in sizing paper and for numerous other industrial applications.

- 67
- ▲ 171

**Ammonium Nitrate**

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 50-, 80- and 100-pound multiwall paper bags and in bulk. Also available in industrial grade.

- 85
- ▲ 127 - 128 - 135 - 137 - 140 - 149 - 150 - 151
- 152 - 153 - 154 - 155 - 156 - 157 - 159 - 163
- 167 - 169 - 170 - 172 - 173 - 174 - 175 - 182
- 185 - 187 - 188 - 198 - 199 - 200 - 201 - 203
- 204 - 205 - 206 - 218 - 220 - 221 - 222 - 223
- 226 - 229

**Ammonium Nitrate Limestone (Calcium Ammonium Nitrate)**

Solid, prilled fertilizer containing 20.5% nitrogen as well as secondary plant food elements of calcium and magnesium. Available in 100-pound multiwall paper bags and in bulk.

- 85
- ▲ 127 - 128 - 135 - 146 - 173 - 187 - 196 - 199
- 200 - 201 - 218 - 220 - 228 - 229

**Ammonium Sulfate**

Solid crystalline nitrogen fertilizer containing 21% nitrogen. Used as a direct fertilizer and in formulating mixed and blended fertilizers.

- 7 - 9 - 67 - 71
- ▲ 119 - 120 - 121 - 127 - 128 - 140 - 149
- 171 - 173 - 174 - 182 - 200 - 215 - 223

**Anhydrous Ammonia**

Liquefied gas, stored and shipped as a liquid at -28°F under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail. Available in truck, rail car and ship cargo lots. Refrigeration grade ammonia also available.

- 7 - 9 - 99 - 101
- ▲ 117 - 119 - 120 - 121 - 135 - 137 - 138 - 140
- 144 - 147 - 154 - 157 - 159 - 163 - 171 - 173
- 175 - 176 - 177 - 179 - 182 - 187 - 189 - 200
- 205 - 210 - 220 - 222 - 223

**Animal Health Products**

A complete line of products designed to prevent and arrest infections and disease in livestock. Special products complement the efficiency of livestock feeds and minerals. Available in various forms and sizes depending on type and use of product.

- ▲ 137 - 138 - 156 - 157 - 159 - 163 - 175
- 176 - 177 - 179 - 180 - 184 - 189 - 190
- 192 - 193 - 235

**Aqua Ammonia**

Water solution of ammonia for industrial use. Sold in tank wagon, tank truck or rail car lots.

- 8 - 85 - 98 - 104
- ▲ 120 - 200 - 222

**Beef Feeds**

Complete nutritional line of supplements and minerals for feed lot cattle and cow herds. Purposes of feed lot supplements are to produce optimum weight gain and best feed conversion at lowest cost. Line includes products which help control parasites and aid in the recovery of the animal from various diseases.

Products for cow herds are aimed at promoting a high percentage of conception and live calf births, a stronger calf at birth and a heavier calf at weaning.

Processed in meal and pelleted form and wafers, sold in 50-pound paper bags and in bulk.

- 10 - 21 - 24 - 28 - 32 - 41 - 42 - 43
- 45 - 48 - 49 - 53 - 61 - 77 - 79 - 103
- ▲ 125 - 136 - 137 - 138 - 143 - 145 - 146 - 147
- 148 - 156 - 157 - 159 - 163 - 165 - 175 - 176
- 177 - 179 - 184 - 189 - 190 - 192 - 193 - 225
- 235

**Dairy Feeds**

Full nutritional line of supplements, complete feeds and minerals for the entire life cycle of the dairy cow. Calf program is aimed at developing a strong, vigorous first-calf heifer at a minimum age. The cow program incorporates "lead feeding" to nutritionally stimulate the cow to produce milk to her maximum ability.

Processed in meal and pelleted form, sold in 50-pound paper bags.

- 21 - 32 - 40 - 42 - 43 - 45 - 48 - 49
- 53 - 60 - 77 - 79
- ▲ 136 - 137 - 138 - 143 - 145 - 146 - 147 - 148
- 156 - 157 - 159 - 163 - 177 - 179 - 180 - 184
- 189 - 190 - 192 - 193 - 235

**DAV-GRO Water-Soluble Fertilizer**

Concentrated water-soluble plant food containing the major plant elements plus lesser elements and minerals to provide a complete plant food. Provides instant feeding for vegetables, citrus trees, flowers, lawns, shrubs, vines and house plants.

- 89
- ▲ 149 - 150 - 151 - 152 - 153 - 154 - 155 - 169
- 170 - 172 - 174 - 182 - 198 - 199 - 201 - 203
- 218 - 221 - 228 - 229

**Defoliant, Cotton - SWFDROP**

A true cotton defoliant based on the leaf-dropping characteristics of sodium chlorate buffered against flame hazard by blending with ammonium phosphate. Available in bulk or 55-gallon drums.

- 105
- ▲ 223 - 226

**Defoliant, Cotton - SWFDRY**

A 42% concentrate of pentachlorophenol for use as desiccant on mature cotton or an herbicide base. Packaged in 5-, 30-, and 55-gallon drums.

- 105
- ▲ 223 - 226

**Diammonium Phosphate (DAP)**

Basic ingredient used in blended fertilizers as well as for direct application. Available in two grades, 13-52-0 and 18-46-0.

- 11 - 71
- ▲ 118 - 129 - 126 - 127 - 128 - 135 - 137 - 140
- 149 - 150 - 151 - 152 - 153 - 154 - 155 - 167
- 169 - 170 - 172 - 173 - 174 - 182 - 185 - 187
- 188 - 204 - 205 - 206 - 220 - 221 - 222 - 223

**Grace Greentown Products**

Family of agricultural products manufactured and marketed through retail service centers. Additional information on products and locations available on request.

**Grain Screenings**

Filler material for animal feeds.

- 86 - 87 - 88 - 97
- ▲ 159

**Grain Storage and Drying Equipment**

A complete selection of grain bins and grain conditioning and handling equipment for storage. Storage bins available in capacities from 6,600 to 35,300 bushels; drying bins available in capacities from 1,100 to 15,500 bushels.

- ▲ 138 - 145 - 146 - 147 - 148 - 156 - 157 - 159
- 163 - 192 - 193

**Hydrofluosilicic Acid (22-25%)**

Transparent, slightly fuming liquid. Used as a source of fluoride for fluoridation of municipal water supplies; as a disinfectant for copper, brass and wooden vessels; as a bath in the electrolytic refining of lead; and for service cleaning of aluminum.

- 11 - 65 - 68 - 71 - 90 - 100
- ▲ 126 - 173 - 174 - 221

**Industrial Gases**

Carbon dioxide, hydrogen and nitrogen, by-products of the ammonia synthesis process. Carbon dioxide is sold for use in the manufacture of dry ice.

- 99
- ▲ 220

**Insemination Equipment**

Liquid nitrogen refrigerators for the storage of semen ampules are available for purchase or rental in varying sizes. The refrigerators may be serviced at one of the ABS regularly scheduled route stops.

- 237
- ▲ 238 through 289

**Lawn and Garden Products**

A complete small package line of insecticides, fungicides, weed killers, fertilizers and specialty items including holly dip, rodent bait, tree white, and pet, poultry and livestock dust.

- 95
- ▲ 212 - 215

**LAWN SPRAY Fertilizer**

A complete liquid fertilizer containing pesticides for direct lawn application. Available as a service only from authorized Grace Lawn Spray Service Centers.

- 66
- ▲ 173

**Liquid Fertilizers**

Complete fertilizers of various analyses containing all three basic plant nutrients (nitrogen, phosphorus, potash) in liquid form.

- 6 - 7 - 17 - 27 - 30 - 34 - 35 - 37
- 81 - 92 - 104
- ▲ 127 - 128 - 137 - 147 - 150 - 154 - 222 - 223

**MAGAMP Fertilizer**

A non-burning solid fertilizer, only slightly soluble in water, for nursery stock and fruit trees. Available in one formulation, 7-40-6.

- 96
- ▲ 127 - 128 - 215 - 223 (also sold through distributors)

**Mixed Fertilizers**

Complete line of pulverized and granulated fertilizers containing all three basic plant nutrients in a variety of formulations. Mixed fertilizers are balanced, dry plant foods, either simple blends of individual nutrient materials (bulk blend fertilizers) or fertilizer materials permanently combined by chemical and physical processing (granular fertilizers).

- 1 - 2 - 3 - 4 - 5 - 6 - 8 - 12
- 13 - 23 - 36 - 37 - 38 - 40 - 46 - 55
- 66 - 68 - 71 - 83 - 84 - 89 - 90 - 91
- 92 - 93 - 94 - 96 - 100 - 107 - 109
- ▲ 118 - 120 - 127 - 128 - 137 - 138 - 140 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153
- 154 - 155 - 156 - 157 - 159 - 161 - 163 - 167
- 169 - 170 - 172 - 174 - 175 - 176 - 177 - 179
- 180 - 182 - 184 - 185 - 188 - 189 - 190 - 198
- 199 - 201 - 203 - 204 - 205 - 206 - 207 - 208
- 209 - 210 - 211 - 213 - 214 - 215 - 216 - 217
- 218 - 221 - 222 - 223 - 228 - 229 - 231

**Nitrogen Solutions**

Variety of compositions based on combinations of ammonia, ammonium nitrate and urea in solution for both direct soil application and for use in fertilizer manufacturing. Available in tank wagon, tank truck and rail car lots.

- 67 - 85
- ▲ 127 - 128 - 135 - 137 - 138 - 140 - 146 - 147
- 148 - 150 - 151 - 152 - 153 - 154 - 155 - 167
- 169 - 170 - 171 - 172 - 173 - 174 - 177 - 179
- 180 - 182 - 184 - 185 - 186 - 187 - 188 - 189
- 190 - 196 - 199 - 200 - 201 - 203 - 204 - 205
- 206 - 218 - 220 - 221 - 222 - 223 - 228 - 229

**Pesticides**

Insecticides, pesticides, fungicides and herbicides used for the control of animal or plant pests. Insecticides are available in complete formulations of liquids, dusts, wettable powders and granules.

- 12 - 46 - 55 - 66 - 68 - 82 - 95
- 96 - 105
- ▲ 120 - 122 - 127 - 128 - 129 - 130 - 131 - 132
- 133 - 134 - 137 - 138 - 140 - 141 - 144 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 167
- 172 - 174 - 176 - 177 - 179 - 180 - 184 - 185
- 188 - 189 - 190 - 196 - 198 - 199 - 201 - 203
- 204 - 205 - 206 - 207 - 208 - 209 - 210 - 211
- 212 - 213 - 214 - 215 - 216 - 217 - 218 - 221
- 222 - 223 - 226 - 227 - 228 - 229 - 230 - 231
- 232 - 233 - 234

**Phosphate Rock**

Used in phosphoric acid production and as a basic ingredient in mixed fertilizer materials. Available as screened material for electric furnaces.

- 11
- ▲ 126 - 127 - 128 - 135 - 171 - 173 - 187 - 220

**Phosphoric Acid (52-54%) Wet Process**

Inorganic acid used in the manufacture of high analysis dry fertilizer, slurry fertilizer and liquid fertilizer.

- 11 - 71
- ▲ 118 - 126 - 135 - 173 - 182 - 187 - 220 - 222

**Poultry Feeds**

A combination of complete feeds and supplements to develop a strong, vigorous pullet and later to promote top egg production at the best feed conversion rates. A combination of complete feeds and supplements for turkeys - both breeder and commercial slaughter flocks. Breeder feeds are aimed at maximum health, high egg production, fertility and hatchability. Feeds for growing turkeys are aimed at maximum health, fast growth, best feed conversion and economical gains. Processed in meal or crumbles and sold in 50-pound paper bags.

- 21 - 32 - 41 - 42 - 43 - 45 - 48 - 49
- 53 - 60 - 77 - 79
- ▲ 136 - 138 - 143 - 145 - 146 - 147 - 148 - 156
- 157 - 159 - 163 - 175 - 182 - 183 - 235

**Seeds**

Legumes, pasture and turf grass seeds; hybrid grain and forage sorghums; hybrid sorghum sudans; cotton, vegetable and soybean seeds. For farm, home and garden use to produce food and fibre, for lawn and turf beautification and soil erosion prevention. Popcorn also available as a consumer product.

- 15 - 16 - 17 - 27 - 30 - 34 - 52 - 58
- 62 - 69 - 72 - 73 - 76 - 81 - 82 - 98
- 102 - 106 - 109 - 110 - 111
- ▲ 122 - 123 - 124 - 127 - 128 - 129 - 130 - 131
- 133 - 134 - 137 - 138 - 141 - 142 - 144 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153
- 154 - 155 - 158 - 160 - 162 - 164 - 166 - 168
- 169 - 170 - 174 - 177 - 178 - 179 - 180 - 181
- 183 - 184 - 186 - 189 - 190 - 191 - 194 - 195
- 197 - 198 - 199 - 201 - 202 - 203 - 204 - 205
- 206 - 216 - 219 - 223 - 224 - 227 - 228 - 229
- 230 - 231 - 232 - 233 - 236

**Seed Corn**

Varieties of seed corn for every soil and climate.

- 14 - 18 - 19 - 20 - 29 - 31 - 33 - 34
- 54 - 56 - 63 - 70 - 78
- ▲ 122 - 123 - 124 - 129 - 130 - 131 - 133 - 134
- 144 - 145 - 146 - 147 - 148 - 149 - 150 - 151
- 152 - 153 - 154 - 155 - 158 - 164 - 168 - 169
- 170 - 172 - 174 - 178 - 191 - 194 - 195 - 197
- 198 - 199 - 201 - 218 - 219 - 221 - 224 - 228
- 229 - 230 - 231 - 236

**Seed Treating Inoculation, Chemicals and Equipment**

Nitrogen-fixing inoculation (Nodogen) both as a dry and a liquid culture applied to alfalfas, clovers, soybeans and other legumes prior to planting. Equipment for use in applying the inoculant and other chemicals to the seed prior to planting.

- 30
- ▲ 122 - 123 - 124 - 129 - 130 - 133 - 134 - 141
- 142 - 144 - 158 - 162 - 166 - 178 - 181 - 183
- 186 - 194 - 195 - 197 - 202 - 219 - 224 - 230
- 231 - 232 - 233

**Semen**

Genetically proven frozen bovine semen for the animal insemination of dairy and beef cows. Ampules are transported by semi-trailer at -320°F to ABS distributors, technicians and herdsmen throughout the country. Common carrier shipment is available to customers not serviced by the existing ABS distribution system in the U.S. and abroad.

- 237
- ▲ 238 through 299

**Sheep Feeds**

Complete nutritional line of supplements and minerals for feeder lambs. Improves the growth rate and feed efficiency while offering protection from several costly sheep diseases.

Processed in meal or pelleted form and sold in 50-pound paper bags.

**Sheep Feeds (continued)**

- 41 - 42 - 43 - 45 - 48 - 49 - 53 - 60  
77 - 79
- ▲ 138 - 145 - 148 - 147 - 148 - 156 - 157 - 159  
183 - 175 - 192 - 193 - 235

**Silicofluorides**

Ammonium, magnesium and zinc silicofluoride compounds are used in a variety of industrial applications, including laundry soaps, moth-proofing agents, concrete hardeners and disinfectants.

- 65
- ▲ 173

**Slurry Fertilizers**

Grace Slurry-Mix fertilizers are balanced plant foods in semi-liquid form that are custom-spray-applied to the soil. A number of compositions are available for specific soil and crop requirements. Slurry fertilizers are an innovation in commercial plant foods and show promise of delivering plant nutrients to the soil in a very economical manner.

- 22 - 24 - 25 - 26 - 28 - 42 - 43 - 44  
47 - 50 - 51 - 57 - 59 - 64 - 74 - 75  
78 - 106
- ▲ 137 - 138 - 140 - 145 - 146 - 147 - 148 - 156  
157 - 159 - 163 - 175 - 176 - 177 - 179 - 180  
184 - 189 - 190 - 222

**START-RITE Fertilizer**

A completely water-soluble, high-analysis plant food used as a starter solution in transplanting all types of plants. It dissolves instantly and is especially formulated to promote healthy, early growth.

- 89
- ▲ 127 - 128 - 149 - 150 - 151 - 152 - 153 - 154  
155 - 169 - 170 - 172 - 174 - 182 - 203 - 221

**Sulfur-SFWGOLD**

Available as finely ground dusting, flaked, coarse-ground, or wettable powder for blending with insecticides, for direct application to the soil, or for blending with liquid and dry fertilizers. Delivered in bulk or 50-pound bags.

- 105
- ▲ 223 - 226

**Sulfuric Acid (66-68 and 98%)**

Inorganic acid used in the manufacture of ammonium sulfate, superphosphate fertilizers and other organic acids, as well as many other industrial processes.

- 7 - 11 - 65 - 67 - 71 - 96 - 107
- ▲ 120 - 126 - 135 - 171 - 173 - 182 - 187 - 218  
220 - 223 - 228

**Superphosphate, Single (20% A. P. A.)\***

Basic ingredient used in mixed fertilizer formulations and in direct fertilizer application.

- 1 - 2 - 3 - 4 - 5 - 55 - 65 - 66  
67 - 71 - 90 - 96 - 100 - 107
- ▲ 112 - 113 - 114 - 115 - 116 - 127 - 128 - 135  
140 - 149 - 150 - 151 - 152 - 153 - 154 - 155  
156 - 157 - 158 - 161 - 163 - 167 - 170 - 172  
173 - 174 - 175 - 182 - 185 - 187 - 188 - 203  
204 - 205 - 206 - 215 - 218 - 220 - 221 - 223  
228

**Superphosphate, Triple (46% A. P. A.)\***

Basic ingredient for direct fertilizer application and for many mixed and blended fertilizer formulations. Available in granular or pulverized form.

- 8 - 11 - 71
- ▲ 113 - 114 - 115 - 116 - 126 - 127 - 128 - 135  
137 - 140 - 149 - 150 - 151 - 152 - 153 - 154  
155 - 156 - 157 - 159 - 163 - 167 - 169 - 170  
171 - 172 - 173 - 174 - 175 - 185 - 187 - 188  
203 - 204 - 205 - 206 - 215 - 220 - 221 - 222  
223

**Swine Feeds**

Complete nutritional line for each phase of the life cycle of swine, including supplements, complete feeds and minerals for all classes of swine. Products enable the farmer to incorporate modern swine nutrition practices into feeding programs to increase rate of gain, counteract problems from parasites and diseases, and help reduce the overall cost of production pork.

Processed in meal or pelleted form and sold in 50-pound paper bags or bulk.

- 21 - 32 - 41 - 42 - 43 - 45 - 48 - 49  
53 - 60 - 77 - 79
- ▲ 136 - 137 - 138 - 143 - 145 - 146 - 147 - 148  
156 - 159 - 163 - 175 - 176 - 192 - 193 - 235

**Urea**

White, solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds and in crystalline form for industrial use. Available in multiwall paper bags and in bulk.

- 8 - 99 - 101
- ▲ 121 - 127 - 128 - 135 - 137 - 140 - 145 - 146  
147 - 148 - 149 - 150 - 151 - 152 - 153 - 154  
155 - 156 - 157 - 159 - 163 - 167 - 169 - 170  
172 - 173 - 174 - 175 - 176 - 185 - 187 - 188  
200 - 203 - 204 - 205 - 206 - 215 - 218 - 220  
221 - 222 - 223

**Urea Solutions**

Urea-ammonium liquors of various compositions used in manufacture of mixed fertilizers. Available in tank cars and tank trucks.

- 24 - 85 - 99
- ▲ 200 - 220

\* Available Phosphoric Acid

*Manufactures plastic packaging materials. Flexible packaging products include bags, films, pouches and laminates as well as complete packaging systems for industry. Rigid container products include AIRMOLD blow molded boxes for consumer packaging and biaxially-oriented and rigid foam polystyrene containers.*

**Headquarters Office**

P. O. Box 464  
Duncan, South Carolina 29334  
(803) 439-4121

**● Plants****UNITED STATES**

- 1** IOWA, Cedar Rapids (52406)  
1125 Wilson Avenue, S.W.  
P. O. Box 1167  
(319) EM 4-0141
- 2** MASSACHUSETTS, Woburn  
(01801)  
369 Washington Street  
(617) WE 3-7500
- 3** SOUTH CAROLINA,  
Simpsonville (29681)  
P. O. Box 338  
(803) 963-4111
- 4** PENNSYLVANIA, Reading  
(19603)  
P.O. Box 295  
(215) 926-2171

**CANADA**

- 5** ONTARIO, Cooksville  
2365 Dixie Road, North  
(416) 277-2751

**▲ Sales Offices****UNITED STATES**

- 6** CALIFORNIA, Hayward  
(94578)  
91 Jackson Street  
(415) 582-0833
- 7** CALIFORNIA, Huntington Park  
(94544)  
5501 Pacific Boulevard, Rm. 203  
(213) 583-3251

- 8** COLORADO, Denver (80215)  
10396 W. Colfax, Rm. 250  
(303) BE 3-6558

- 9** ILLINOIS, Chicago (60625)  
Merchandise Mart Plaza  
Room 475  
(312) 527-5700

- 10** MINNESOTA, Minneapolis  
(55204)  
2508 Foshay Tower  
(612) FE 9-6219

- 11** NEBRASKA, Omaha (68102)  
1506 W.O.W. Building  
(402) 341-4669

- 12** NEW JERSEY, Chatham  
(07928)  
323 Main Street  
(201) 635-6300

- 13** NORTH CAROLINA, Charlotte  
(28210)  
1433 Emerywood Drive  
(704) 525-3324

- 14** OHIO, Medina (44256)  
P.O. Box 503  
(216) 725-4951

- 15** PENNSYLVANIA, Reading  
(19603)  
P.O. Box 295  
(215) 926-2171

- 16** PENNSYLVANIA, Upper  
Darby (19082)  
60 Garret Road  
(215) FL-2311

- 17** SOUTH CAROLINA, Duncan  
(29334)  
P. O. Box 464  
(803) 439-4121

**CANADA**

- 18** ALBERTA, Calgary  
415 Manitu Rd., S.E.  
(403) 264-1655

- 19** ALBERTA, Edmonton  
10117 111th Street  
(403) 482-3914

- 20** BRITISH COLUMBIA,  
Vancouver  
3450 Wellington Avenue  
(604) 437-1030

- 21** MANITOBA, Winnipeg  
830 King Edward Street  
(204) 774-2429

- 22** NOVA SCOTIA, Halifax  
3003 Olivet Street  
(902) 455-3128

- 23** ONTARIO, Cooksville  
2365 Dixie Road, North  
(416) 277-2751

- 24** ONTARIO, Downsview  
3500 Dufferin Street  
(416) 630-1292

- 25** ONTARIO, Kitchener  
Dunker Building, Room 601  
251 King Street, West  
(519) 742-8521

- 26** ONTARIO, Toronto  
4195 Dundas Street, West  
Suite 207  
(416) 239-4838

- 27** QUEBEC, Mount Royal  
785 Plymouth Avenue  
Suite 123  
(514) 781-8671

**PRODUCTS****PLASTIC CONTAINERS****AIRMOLD Blow Molding Packaging**

Custom blow molded double-wall boxes in varying sizes and interior configurations for specialty packaging of power tools, cameras and other industrial and consumer products.

- 1
- ▲ 17

**Rigid Containers**

Biaxially-oriented and rigid foam polystyrene containers and trays for packaging meats, poultry, fish, bakery and confectionery products. Non-food applications include records, toys, games, textiles and paper.

- 4
- ▲ 15

**SHRINKING BAGS AND CASINGS**

CRYOVAC "L" for packaging turkeys, whole chickens and ducks.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

CRYOVAC "S" for packaging smoked, cured and processed meats, beef, cheese and poultry.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

CRYOVAC "S" casings for packaged, smoked, cured and processed meats.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**SHRINKING FILMS****Polyethylene**

CRYOVAC "D" for packaging toys, phonograph albums, specialties, meats and bakery items.

CRYOVAC "L" for packaging whole and cut-up broilers, turkey parts and bakery items.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**Polyvinylidene Chloride**

CRYOVAC "S" for packaging meat and cheese.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**Polypropylene**

CRYOVAC "J" for packaging textiles, games and paper products.

CRYOVAC "Y" for packaging phonograph albums and toys. Also CRYOVAC "Y"-Perforated for produce, both shrink and non-shrink applications.

CRYOVAC "YH" for laminating with cellophane.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**LAMINATES**

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**POUCHES**

For packaging a variety of cured, smoked and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

**EQUIPMENT**

Customized packaging lines: automatic, semi-automatic and hand-operated equipment for edge sealing and vacuum sealing; shrink tunnels, clip applicators.

- 2
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

# DAWBARN

Extrudes and markets polyethylene and polypropylene monofilament, multifilament and ribbon fibers. Weaves, finishes and markets DAWBAC fabric, used as primary backing for tufted carpets.

## General Office

901 S. Delphine Avenue  
P. O. Box 460  
Waynesboro, Virginia 22980  
(703) 942-1101

## ● Plants

### UNITED STATES

- 1 VIRGINIA, Waynesboro  
(22980)  
901 S. Delphine Avenue  
P. O. Box 460  
(703) 942-1101

### CANADA

- 2 NOVA SCOTIA, Truro  
589 Prince Street  
(902) 895-5445
- 3 ONTARIO, Brantford  
Grace Fibres, Ltd.  
36 Morton Avenue, East  
P. O. Box 1028  
(519) 759-2200

## ▲ Sales Offices

### UNITED STATES

- 4 GEORGIA, Dalton (30720)  
P.O. Box 1023  
(404) 278-0114
- 5 NEW JERSEY, Chatham  
(07928)  
323 Main Street  
(201) 635-6300
- 6 NORTH CAROLINA, Charlotte  
(28209)  
1630 Mockingbird Lane  
(704) 523-9648
- 7 VIRGINIA, Waynesboro  
(22980)  
901 S. Delphine Avenue  
P.O. Box 460  
(703) 942-1101

### CANADA

- 8 BRITISH COLUMBIA,  
Richmond (Herzog)  
1078 Cambie Road  
P. O. Box 145  
(604) 278-9688
- 9 NOVA SCOTIA, Truro  
589 Prince Street  
(902) 895-5445
- 10 ONTARIO, Brantford  
Grace Fibres, Ltd.  
36 Morton Avenue, East  
P. O. Box 1028  
(519) 759-2200

## PRODUCTS

### DAWBAC Fabric

Woven of polypropylene ribbon in 12- and 15-foot widths. Used in primary carpet backing.

### DLP Monofilament and Multifilament

Single filament deniers from 50 to 1000. Limited deniers in flat cross sections.

### DLP Ribbon Monofilament

Available in deniers ranging from 250 to 1500.

- 1 - 3  
▲ 4 - 5 - 6 - 7 - 10

### Finished Rope and Cordage

- 2  
▲ 8 - 9 - 10

## TRANSPARENT PAPER PRODUCTS LIMITED

Prints (both gravure and flexographic), laminates, coats and fabricates a wide range of flexible packaging materials. Products are sold in roll stock, pouch and bag forms converted from cellophane, polyethylene, polypropylene, mylar, foil, paper and tissue.

### General Office

6440 Henri Bourassa Blvd., East  
Montreal North 39, Quebec, Canada  
(514) 322-9210

### ● Plant

#### CANADA

1 QUEBEC, Montreal North 39  
6440 Henri Bourassa Blvd. East  
(514) 322-9210

### ▲ Sales Offices

#### CANADA

2 ONTARIO, Downsview  
3500 Dufferin Street  
Suite 600  
(416) 630-1292

3 QUEBEC, Montreal 9  
785 Plymouth Avenue  
(514) 731-3671

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## PRODUCTS

### Cellophane

Roll stock, bags, pouches, sheets; used for confectionery, biscuits, potato chips.

### Cello Wax Laminata

Roll stock and bags, for packaging macaroni, biscuits and confectionery.

### Extrusion Coating

Cellophane, mylar or foil coated with polyethylene. Roll stock and pouches used for packaging drink mixes, soups, powdered foods, potato flakes, condiments and smoked meats.

### Polyethylene

Printed roll stock, bags and pouches for packaging blankets, bathroom tissue, shirts and sweaters, screws and nails.

### Foil Paper

Foil which is glue-laminated to paper inside a foil bag; used for packaging potato chips.

### Foil Unsupported

Printed roll stock used for automatic overlay and covers for TV dinners.

### Foil Tissue

Foil/wax/tissue and foil hot wax-laminated to tissue and used for cigarette package liners.

### K O Kote

Cellophane printed and coated with wax; sorbic supplied for processed cheese and plain cello waxed and starched for natural cheese.

### Wrap Kote

Paper coated with Elvax for powdered desserts.

### Wrap-Kote (2 Substrates)

Foil which is glue-laminated to sulphite, printed, then coated and slit; used for potato chips and margarine carton overwrap.

### Adhesive Laminates (2 Substrates)

Combination of mylar/poly, cello/poly and cello/foil; all laminated with a lacquer binder, to be used for luncheon meat, weiners and condiment packaging.

### Paper

Printing and slitting rolls of linen-embossed paper used for shopping bags and band-aid wraps.

● 1  
▲ 2 - 3

**GRACE****HATCO GROUP**

*Manufactures and markets phthalic anhydride, sebacic acid, plasticizers, synthetic jet lubricants and lubricant-base stocks, polyester resins, supported and unsupported vinyl sheet and film, synthetic and natural waxes, industrial solvents, specialty organic chemicals and plastic office supplies.*

**Headquarters Office**

King George Post Road  
Fords, New Jersey 08863  
(201) 826-6262

**HATCO CHEMICAL DIVISION**

Manufactures and markets phthalic anhydride, sebacic acid, plasticizers, synthetic jet lubricants and lubricant-base stocks and specialty organic chemicals.

**● Plant**

**1** NEW JERSEY, Fords (08863)  
King George Post Road  
(201) 826-6262

**▲ Sales Offices**

**2** INDIANA, Fort Wayne (46801)  
3805 Dalewood Drive  
(219) 748-2796

**4** NEW JERSEY, Fords (08863)  
King George Post Road  
(201) 826-6262

**3** MASSACHUSETTS, Topsfield  
(01983)  
Parsonage Lane  
(617) 887-5635

**5** OHIO, Cuyahoga Falls (44221)  
2916 Millboro Road  
(216) 929-3351

**ELLAY RUBBER DIVISION**

Produces and markets printed, laminated and embossed vinyl film and sheeting.

**General Office**

1200 South Central Avenue  
Los Angeles, California 90021  
(213) 747-6355

**● Plant**

**6** CALIFORNIA, Los Angeles  
(90021)  
1200 South Central Avenue  
(213) 747-6355

**▲ Sales Office**

**7** CALIFORNIA, Los Angeles  
(90021)  
1200 South Central Avenue  
(213) 747-6355

**ELM COATED FABRICS DIVISION**

Produces and supplies unsupported vinyl film and sheet for a number of consumer and industrial applications.

**General Office**

220 Stewart Avenue  
Brooklyn, New York 11237  
(212) HY 7-2230

**● Plant**

**8** NEW YORK, Brooklyn (11237)  
220 Stewart Avenue  
(212) HY 7-2230

**▲ Sales Office**

**9** NEW YORK, New York (10016)  
281 Fifth Avenue  
(212) MU 6-3311

## HOWARDS & SONS (CANADA) LTD.

Manufactures and markets phthalic anhydride, plasticizers, sorbitol and other chemical specialties.

### General Office

Wallrich Avenue  
Cornwall, Ontario  
(613) 933-5330

#### ● Plant

10 ONTARIO, Cornwall  
Wallrich Avenue  
(613) 933-5330

#### ▲ Sales Offices

11 ONTARIO, Cornwall  
Wallrich Avenue  
(613) 933-5330  
from Montreal call  
(514) 861-4622

12 ONTARIO, Toronto  
79 Ellesmere Road  
Suite 17  
Scarboro  
(416) 444-4477

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## MARCO CHEMICAL DIVISION

Manufactures polyester resins. Cornelius Wax Refining Corp., a subsidiary, refines and manufactures natural and synthetic waxes.

### General Office

1711 West Elizabeth Ave.  
Linden, New Jersey 07036  
(201) 925-6610

#### ● Plants

13 NEW JERSEY, Edison (08840)  
Edison Industrial Center  
(201) 549-2000

14 NEW JERSEY, Linden (07036)  
1711 W. Elizabeth Ave.  
(201) 925-6610

15 OHIO, Swanton (43558)  
413 E. Broadway  
(419) 826-3010

#### ▲ Sales Offices

16 GEORGIA, Atlanta (30040)  
3596 Oakcliff Road  
(404) 875-9258

17 NEW JERSEY, Linden (07036)  
1711 W. Elizabeth Ave.  
(201) 925-6610

18 NORTH CAROLINA,  
Charlotte (28214)  
2224 Toddville Road  
(704) 399-6274

19 OHIO, Swanton (43558)  
413 E. Broadway  
(419) 826-3010

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## JOSHUA MEIER DIVISION

Manufactures and markets plastic products for the office supply industry, including sheet protectors, report covers, presentation binders, portfolios, photo albums, desk sets and accessories.

### General Office

7400 West Side Avenue  
North Bergen, New Jersey 07047  
(201) 869-8200

#### ● Plant

20 NORTH BERGEN, New Jersey  
(07047)  
7400 West Side Avenue  
(201) 869-8200

#### ▲ Sales Office

21 NORTH BERGEN, New Jersey  
(07047)  
7400 West Side Avenue  
(201) 869-8200

**SOUTHBRIDGE PLASTICS DIVISION**

Produces printed, laminated and embossed vinyl sheeting.

**General Office**

1 Park Avenue  
New York, New York 10016  
(212) 889-5300

● **Plants**

- 22 MISSISSIPPI, Corinth (38834)  
Golding Drive  
(601) 287-1401
- 23 NEW JERSEY, Clifton (07012)  
310 Allwood Road  
(201) 773-1200

▲ **Sales Offices**

- 24 CALIFORNIA, Los Angeles (90015)  
1200 S. Central Avenue  
(213) 746-3500
- 25 ILLINOIS, Chicago (60611)  
666 Lakeshore Drive  
(312) 837-2047
- 26 ILLINOIS, Chicago (60620)  
9146 S. Green Street  
(312) 239-4300

27 NEW YORK, New York (10016)  
1 Park Avenue  
(212) 889-5300

28 NORTH CAROLINA, High Point (27261)  
1809 English Street  
(919) 882-2222

29 TEXAS, Dallas (75207)  
2430 Converse Street  
(214) ME 1-0304

30 ONTARIO, Toronto  
95 Wingold Avenue  
(416) 789-7237

**SOUTHERN RESIN & SOLVENTS DIVISION**

Markets polyester resins and other materials used in fabricating reinforced plastics.  
Distributes a variety of industrial solvents, chemicals and polyurethane foams.

**General Office**

8700 N.W. 36th Avenue  
Miami, Florida 33147  
(305) 691-4321

● **Plant**

31 FLORIDA, Miami (33147)  
8700 N.W. 36th Avenue  
(305) 691-4321

▲ **Sales Offices**

32 FLORIDA, Miami (33147)  
8700 N.W. 36th Avenue  
(305) 691-4321

33 GEORGIA, Atlanta (30040)  
3596 Oakcliff Road  
(404) 876-9256

**PRODUCTS**

**Acetone**

A widely used industrial solvent. Available in bulk, 55-gallon drums and smaller containers.

▲ 32 - 33

**Aircraft Cleaners**

A variety of industrial solvents used in cleaning and maintaining aircraft. Available in bulk, 55-gallon drums and smaller containers.

▲ 32

**Anti-Static Agent**

Hatcol 1606 is an anti-static agent specifically developed for use in PVC-impregnated conveyor belts.

● 1  
▲ 2 - 3 - 4 - 5

**Barium Carbonate**

For use in brick manufacturing and other industries. Available in 50 lb. bags.

▲ 11-12

**Barium Hydroxide**

For use in lubricating oil additives. Available in 100 lb. kegs.

▲ 11 - 12

**Beeswax**

Available as crude or refined, both natural and synthetic, for use in arts and crafts, cosmetics, pharmaceuticals, candle manufacturing, printing and carbon paper, polishes, leather finishing, crayons and lead pencils. The entire line is available as 10- to 12-pound slabs or one-pound cakes packaged in multiwall cartons of approximately 55 pounds net.

● 13  
▲ 16 through 19

**Benzyl Chloride**

A widely used chemical intermediate. Available in bulk and in 55-gallon drums.

● 1  
▲ 2 - 3 - 4 - 5

**Bleaching Agents**

Inorganic chemical bleaching agents, such as sodium perborate and sodium chlorite. Available in 100-lb. containers.

▲ 11 - 12

**Candelilla Wax**

Available as crude or refined natural wax for use in polishes, chewing gum, candles and in coating castings.

● 13  
▲ 16 through 19

**Capryl Alcohol**

Water-white liquid used as a solvent defoamer and chemical intermediate. Available in bulk or in drums.

● 1  
▲ 2 - 3 - 4 - 5

**Carnauba Wax**

Available as crude or refined natural wax for use in pharmaceuticals, cosmetics, crayons and pencils, dental compounds, carbon papers, inks and finishes, mold release agents, and automotive, floor and shoe polishes. Available in lump, flake or pulverized form.

● 13  
▲ 16 through 19

**Ceresine Wax**

A petroleum-based wax for chewing gum, cosmetics, crayons and pencils, dental compounds, lubricants and waterproofing applications.

● 13  
▲ 16 through 19

**Construction Materials**

Decorative, rigid, vinyl films used as laminates on wood, metal, acoustical tile, "Masonite", floor tile and other substrates. Provide excellent scuff-resistance, cleanability and permanence as a barrier to water vapor. Available in rolls up to 72 inches wide.

● 8  
▲ 9

**Curing Agents, Polyester Resin**

Methyl ethyl ketone peroxide, benzoyl peroxide and other polyester activators or hardeners.

▲ 16 - 30 - 31

**Cyclic Ketone Resins**

Organic chemical intermediates used in the manufacture of lacquers and adhesives. Available in 100-lb. containers.

▲ 11 - 12

**Cyclohexanone**

Colorless liquid used as a solvent and chemical intermediate. Available in 45 Imperial-gallon drums.

▲ 11-12

**Cyclohexyl Alcohol**

Water-white liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

● 10  
▲ 11 - 12

**EMULSOWAX Synthetic Waxes**

A series of waxes used as extenders or carnauba replacements in floor wax, leather finishes, shoe polishes and paper coatings.

● 13  
▲ 16 through 19

**Epoxidized Oils**

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in bulk tank truck and rail tank car lots and in 55-gallon drums.

● 1  
▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Ethyl Alcohol**

A denatured solvent for industrial use. Available in bulk, 55-gallon drums and other standard packages.

▲ 32

**Fatty Acids**

Distilled and crude vegetable fatty acids used for soaps, esters and detergents. Available in 400-pound drums and bulk tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5

**Fibrous Glass**

Fibrous glass reinforcements for polyester and other resins. Available as woven roving, mat, and woven fabrics in varying weights and dimensions.

- ▲ 16 - 32 - 33

**Fumaric Acid**

White crystalline material used in the preparation of polyesters, plasticizers, alkyd resins and ester gums. Available in 50-pound multiwall bags.

- ▲ 2 - 3 - 4 - 5

**Gel-Coats**

Specialty polyester resins used to impart surface properties of color, scuff, and chemical resistance. Used widely in manufacturing boats and other items where superior surface characteristics and appearance are desired. Available in 55-gallon drums and 5-gallon pails.

- 14 - 15 - 31
- ▲ 16 - 17 - 18 - 19 - 32 - 33

**Humectants**

Products, such as sorbitol, which maintain a desired moisture content despite broad humidity fluctuations. Sorbitol is used in toothpastes, in tobacco, and in jams, jellies and other confectionery products.

- 10
- ▲ 11 - 12

**Insecticide Base Oils**

Petroleum and other base stocks for use in the formulation of insecticides and pesticides. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

**Isopropyl Alcohol**

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

- ▲ 32

**Japan Wax**

A wax-like fat used in lead pencils, textiles, cosmetics, cordage and laundry finishes. Available as a crude or refined product.

- 13
- ▲ 16 through 19

**Jet Engine Lubricants**

Lubricant and lubricant-base stocks which meet military and commercial requirements for jet turbine engine lubricant; based on high purity organic esters.

- 1 - 10
- ▲ 4 - 11 - 12

**Maleic Anhydride**

A chemical intermediate used in the manufacture of alkyds, polyesters, plasticizers, ester gums and other materials. Available in molten form in bulk tank wagon or tank truck, or as white flaked solid in 50-pound multiwall bags.

- ▲ 2 - 3 - 4 - 5

**Methyl Alcohol**

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

- ▲ 32

**Methylcyclohexyl Alcohol**

Colorless organic liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

- 10
- ▲ 11 - 12

**Methyl Ethyl Ketone**

Solvent for lacquers and rubber and plastic coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

**Methyl Isobutyl Ketone**

Solvent for nitrocellulose and other surface coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

**Mineral Spirits**

Organic liquid solvents used widely in paint and varnishes. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

**Molding Compounds**

Polyester resin and fiber glass molding compounds for compression molding of industrial automotive and electrical components. Available in roll form, 125 lb. per roll.

- 14 - 15
- ▲ 16 - 17 - 18 - 19

**Mold Release Agents**

Industrial waxes and other parting agents used in polyester molding operations.

- ▲ 16 - 17 - 18 - 19 - 32 - 33

**Mountain Wax**

A mineral wax extracted from lignite, used in carbon paper, insulation, polishes and other applications. Available in natural state and bleached forms.

- 13
- ▲ 16 through 19

**Myristyl-cetyl Alcohol**

A blend of fatty alcohols, HATCOL MC finds use as an intermediate for quaternaries and tanning agents. Available in bulk and in 55-gallon drums.

- 1
- ▲ 2 - 3 - 4 - 5

**Ourocurary Wax**

Available as a crude or refined natural wax, used extensively in carbon paper manufacture, crayons and pencils, inks and printing, lubricants, leather finishes and polishes.

- 13
- ▲ 16 through 19

**Ozokerite**

A petroleum-based wax for carbon paper, cosmetics, crayons and pencils, insulating applications, paper coating, and automotive, floor and shoe polishes.

- 13
- ▲ 16 through 19

**Paint Chemicals**

Industrial solvents and chemicals used in manufacturing paints, lacquers and thinners. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32 - 11 - 12

**Phthalic Anhydride**

A widely used intermediate for plasticizers, polyesters, alkyds, dyestuffs and pharmaceuticals. Available as a molten liquid in bulk tank trucks and rail tank cars and as white flaked solid in 80-pound multiwall bags.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12

**Plastic Office Supplies**

Products for the office supply industry including sheet protectors, report covers, presentation binders, photo albums, desk sets and accessories.

- 20
- ▲ 21

**Plasticizers**

**Adipates**

The adipates are primary plasticizers used with a wide variety of resins. Excellent permanence and low temperature properties are imparted to adipate-plasticized polyvinyl chloride compounds. In addition, plastisols prepared with adipates give exceptionally low initial and stable long-term viscosities. Adipates have good heat and light stability and impart a soft drape to vinyl film. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Epoxyes**

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Esters, Aliphatic**

The caprylate-caprate and di-caprate esters are compatible with a wide range of resins. Used as plasticizers for natural and synthetic rubber, they impart excellent low temperature properties to these materials. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Fumarates**

The fumarates are monomeric in nature and are used for copolymerization with such monomers as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water-based paints, paper coatings, etc. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Isophthalates**

The isophthalate esters, used in vinyl compounds, lend outstanding durability to nitrocellulose-lacquered surfaces. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Maleates**

The maleates are monomeric in nature and are used for copolymerization with monomers such as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water-based paints and paper coatings. Available in 55-gallon drums and in bulk tank truck and rail tank car.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers (continued)****Phthalates**

A wide range of primary phthalate plasticizers are available. Dimethyl and diethyl phthalates are used in adhesives and in plasticizing cellulose acetate. Di-isobutyl, dibutyl and dicyclohexyl phthalates are used in adhesives, lacquers, emulsions, heat-sealing paper coatings and in cellophane. Di-isohexyl, butyl benzyl, butyl octyl and butyl decyl are fast fluxing and high solvating vinyl chloride plasticizers. The octyl and decyl phthalates are the general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. N-octyl-decyl, 610 and 810 phthalates as vinyl plasticizers provide good low-temperature flexibility. Isodecyl, tri-decyl and di-tri-decyl phthalates find wide acceptance in high temperature wire compounds. Specialty phthalate plasticizers are offered for specific end use requirements. Available in 55-gallon drums and in bulk tank car and tank wagon lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers, Low Temperature**

Functional plasticizers imparting a specific end result in vinyl and other resin formulations. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers, Polymeric**

The polymeric plasticizers are specialty products providing permanence and oil- and hexane-resistance in finished compounds.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers, Secondary**

Secondary plasticizers are used in vinyl formulations as low cost extenders of the primary type. Often they impart specially desired end use properties. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers, Semi-Polymeric**

These products provide a range of properties to various resin formulations between those obtained with the primaries and the higher priced true polymeric. Available in 55-gallon drums and in tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Plasticizers, Specialty**

Plasticizers, e.g. glyceryl triacetate, HATCOL 332, HATCOL 334, for specialized end use applications with natural, synthetic, and chlorinated rubbers and with cellulose and other natural and synthetic resins. Available in 55-gallon drums and in tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Sebacates**

The sebacates are primary plasticizers used with a variety of resins. The octyl sebacates are excellent low temperature vinyl plasticizers and synthetic lubricants. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Trimellitates**

Trimellitates find wide application in formulating high temperature vinyl wire compounds and are available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

**Polyester Resins**

With glass fiber reinforcement, the polyesters find wide application in the automotive, marine, construction and related industries. Application properties and resistance to impact and chemical attack can be varied to specific requirements. Available in 55-gallon drums, 5-gallon pails and in bulk tank truck lots.

- 14 - 15
- ▲ 16 - 17 - 18 - 19 - 32 - 33

**Polyesters, Fire Retardant**

Specialty polyester formulations which retard combustion when exposed to open flame. Available in 55-gallon drums, in 5-gallon pails and in bulk tank truck lots.

- 14 - 15
- ▲ 16 - 17 - 18 - 19 - 32 - 33

**Polyglycols**

Sorbitol for use in toothpaste, pharmaceuticals, cosmetics, confectioneries and other food products. Available in both crystallizing and non-crystallizing grades.

- 10
- ▲ 11 - 12

**Polymerization Initiators or Activators**

Organic and inorganic peroxide and persulfate salts used in reinforced plastics and synthetic resin manufacture. Available in 100 lb. drums and smaller containers.

A 11 - 12

**Polymerized Fatty Acids**

Polymerized vegetable fatty acids are used in demulsifiers and inhibitors. Available in 400-pound drums and in bulk tank truck and rail tank car lots.

• 1  
A 2 - 3 - 4 - 5

**Polyurethane Foam**

Equipment and materials for manufacturing polyurethane foam in place. Principally used in insulating and caulking new home construction, and marine application for flotation purposes.

A 32 - 33

**Rigid PVC Lubricant**

HATCOL 340 Rigid PVC Lubricant is used in the fabrication of rigid PVC products such as calendered sheet, extruded pipe, electrical conduit and molded fittings and housings.

• 1  
A 2 - 3 - 4 - 5

**Rigid Vinyl Films**

Decorative rigid and semi-rigid vinyl films used as laminates on a variety of substrates for construction materials\* and other applications.

• 8  
A 9

**Sebacic Acid, C-16 Dibasic Acid**

Solid, prilled sebacic acid is used in cosmetics, nylon 6-10 and in low temperature plasticizers. Both CP and purified grades are available in 50-pound multiwall bags.

• 1  
A 2 - 3 - 4 - 5 - 11 - 12

**Solvents**

A wide range of aromatic and aliphatic solvents. These find wide use in paint and lacquer thinners, as metal degreasers, and as dry-cleaning solvents. Available in 55-gallon drums, smaller containers and bulk tank truck lots.

A 32

\*See additional product listing under "Construction Materials", page 48.

**Synthetic Waxes**

A wide range of petroleum-based and other synthetic waxes. Specialty blends and natural wax substitutes for every purpose.

• 13  
A 16 through 19

**Titanium Dioxide**

Inorganic white pigment. Available in 50-lb. multiwall bags.

A 11 - 12

**Vinyl Compounds**

Series of proprietary products for use in rigid and flexible vinyl fabrications, such as wire and cable, footwear, building and construction materials, food and beverage packaging, medical and surgical supplies, household and molded products, automotive toys. Available as pellets or powder blend in 50-lb. multiwall bags and larger sized unitized containers.

• 8  
A 2 - 3 - 4 - 5 - 9

**Vinyl Film and Sheet**

Both supported and unsupported vinyl film and sheet are used as furniture covering, vinyl flooring, roofing, mattress covers, window shades, auto seat covers, shower curtains and outerwear. Materials are styled to consumer requirements and produced in rolls up to 72 inches wide.

• 8 - 9 - 22 - 23  
A 7 - 9 - 24 - 25 - 26 - 27 - 28 - 29 - 30

**Vinyl Film, Supported**

Rolls, up to 72 inches wide, of flexible vinyl film laminated to cotton, nylon and other materials to form a reinforced decorative vinyl fabric used in furniture covering, luggage, auto seat covers and juvenile products.

• 6 - 22 - 23  
A 7 - 24 - 25 - 26 - 27 - 28 - 29 - 30

**Vinyl Film, Unsupported**

Rolls, up to 72 inches wide, of flexible and rigid vinyl films, which are laminated to various substrates for use as construction material, window shade fabric, shower curtains and other consumer products. An excellent vehicle for styling through embossing and printing.

• 6 - 8  
A 7 - 9

# Industrial Chemicals Group

**GRACE****DAVISON CHEMICAL DIVISION**

*Manufactures and markets industrial chemical products including petroleum cracking catalysts, industrial and custom catalysts and catalyst supports, RANEY nickel catalysts, fine-sized silicas, industrial adsorbents including silica gel and molecular sieves, packaging desiccants and rare earths.*

**Headquarters Office**

101 North Charles Street  
Baltimore, Maryland 21203  
(301) 727-3900

**● Plants****UNITED STATES**

**1 LOUISIANA, Lake Charles**  
(70604)  
P. O. Box BB  
(318) 527-5228

**2 MARYLAND, Baltimore**  
(21226)  
Curtis Bay Plant  
(301) 355-4900

**3 NEW JERSEY, Pompton Plains**  
(07444)  
P. O. Box 188  
(201) 835-3060

**4 NEW MEXICO, Gallup (87301)**  
Route 666 North of Gallup  
P. O. Box 506  
(505) 863-6001

**5 OHIO, Cincinnati (45229)**  
4775 Paddock Road  
(513) 242-3312

**6 TENNESSEE, Chattanooga**  
(37406)  
4000 N. Hawthorne St.  
(615) 698-3461

**7 TENNESSEE, South Pittsburg**  
(37380)  
3rd St. and Railroad Ave.  
(615) 837-6778

**CANADA**

**8 QUEBEC, Valleyfield**  
42 Fabre St.  
(514) 373-4224

**▲ Sales Offices****UNITED STATES**

**9 CALIFORNIA, San Francisco**  
(94114)  
2 Pine St.  
(415) 781-7530

**10 MARYLAND, Baltimore**  
(21203)  
101 N. Charles St.  
(301) 727-3900

**11 NEW JERSEY, Pompton Plains**  
(07444)  
P. O. Box 188  
(201) 835-3060

**12 TENNESSEE, Chattanooga**  
(37406)  
4000 North Hawthorne St.  
(615) 698-3461

**13 TENNESSEE, Chattanooga**  
(37402)  
819 Hamilton National Bank  
Bldg.  
(615) 266-8616

**14 TEXAS, Houston (77004)**  
4101 San Jacinto  
(713) 528-1456

**CANADA**

**15 ALBERTA, Calgary**  
1011 17th Ave., S.W.  
(403) 244-8467

**16 ONTARIO, Toronto**  
347 Bay St.  
(416) 364-9272

## PRODUCTS

### Industrial and Specialty Catalysts

A broad range of catalysts for the chemical and petrochemical industries including those specifically manufactured for processes such as oxidation, hydrogenation, dehydration, alkylation and esterification, as well as custom and prescription catalysts which utilize as active agents all base- or precious-metal salts; catalyst supports including silica gel.

- 2 - 5 - 7
- ▲ 9 - 10 - 12 - 14 - 16

### Molecular Sieves

Crystalline forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties. Used for drying and purifying gases, drying liquids, the separation of hydrocarbons and in the manufacture of catalysts. Four basic types of molecular sieves manufactured by Davison are the 3 A, 4 A, 5 A and 13 X types. Each type is available in bead form with mesh sizes of 4-8, 8-12 and 20-50 mesh (U. S. Standard Sieves). Special grades of molecular sieves available include those for refrigeration, acid-resistant requirements, moisture-indicating types and an exceptionally high-capacity grade.

- 2
- ▲ 10 - 14 - 15 - 16

### Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for catalysts.

- ▲ 9 - 10 - 14 - 15 - 16

### Packaging Desiccants and Air Dryers

Packaging Desiccants include a number of adsorbents in small bag sizes for moisture protection of military gear, electrical and electronic devices, precision instruments and pharmaceutical products. PROTEK-SORB Packaging Desiccants are qualified under appropriate U. S. Government military specifications for use in providing dependable protection against moisture damage.

Air Dryers are used for protection of cameras, sporting goods, fishing tackle, and other moisture-sensitive objects in the laboratory, home, car and on board small boats. Available in two convenient sizes, Air Dryers can be reused indefinitely if regenerated according to directions on the package.

- 2 - 4
- ▲ 10 and by distributors located throughout the continental United States and Canada.

### Petroleum Catalysts

Fluid cracking catalysts, including High Alumina (25%) for high activity and selectivity and Low Alumina (13%) for medium-range operations; Semi-Synthetic, a lower activity, clay-included catalyst for low conversion operations; SM-30 (silica-magnesia), an extremely active catalyst for the production of maxi-

imum yields of gasoline and light cycle oil; Zeolite catalysts, new ultra-stable, high-activity catalysts more selective with regard to coke and gasoline than any other catalysts.

### Zeolite catalysts include:

XZ-15—the petroleum industry's first fluid zeolite catalyst employing the first ultra-stable type molecular sieve to be used in catalytic cracking.

XZ-25—the most economical catalyst available for providing improved gasoline yields, coke and gas selectivity. Now the standard of the industry, XZ-25 increases unit capacity and reduces catalyst usage.

XZ-25 PLUS—premium quality product providing very high activity and conversion of petroleum feed stocks.

XZ-36—an all-new fluid cracking catalyst with an advanced matrix structural design and a high molecular-sieve content. XZ-36 provides especially high fresh activity, proven stability and longer sieve life.

- 1 - 2 - 5 - 8
- ▲ 9 - 10 - 14 - 15 - 16

### RANEY Active Catalysts and Catalyst Alloys

Highly active, finely-divided metal catalysts used in a great variety of hydrogenation, reduction and amination processes. In addition to the basic nickel compositions, Raney catalysts are also available in cobalt, copper and silver forms as well as others on special order. Finely divided alloy powders and granular materials are available for activation in your laboratory or plant.

- 7
- ▲ 10 - 12 - 14

### Rare Earths and Thorium Chemicals

Available in both technical and high-purity grades for industrial applications such as glass polishing, carbon-arc electrodes, ceramics, metallurgical additives, gas mantles and nuclear systems.

- 3 - 6
- ▲ 11 - 13

### Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Widely used as a selective adsorbent for gases and liquids, as a catalyst support, and as a desiccant for laboratory and research uses and for general applications. Specific applications include natural gas drying, treatment of feed streams for the chemical and petrochemical industries, removal of contaminants, as a desiccant in insulating glass windows, and as a drying and purifying agent for refrigerant systems, particularly air conditioning.

- 2
- ▲ 9 - 10 - 14 - 15 - 16 and by distributors located throughout the continental United States and Canada.

**STABIFIX Silica Gel Beer Stabilizer**

A finely divided amorphous silica gel for clarification and stabilization of beer through the removal of specific protein fractions.

- 2
- ▲ 10

**SYLOID Micron-Sized Silicas**

White, amorphous, finely-divided silica gel powders used for flattening and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and reproduction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals. Available in a variety of high purity and surface-treated grades.

- 2-5
- ▲ 10 Sold primarily by distributors located throughout the continental United States, Canada and Mexico.

# Industrial Chemicals Group

**GRACE****DEWEY AND ALMY CHEMICAL DIVISION**

*Manufactures and markets a broad line of industrial chemical specialties including container sealing compounds, construction and building maintenance materials, organic chemicals, polymer-fiber materials, graphic arts products and vermiculite products.*

## Headquarters Office

62 Whittemore Avenue  
Cambridge, Massachusetts 02140  
(617) 876-1400

## ● Plants

- UNITED STATES**
- |   |   |   |
|---|---|---|
| <b>1</b> ARIZONA, Phoenix (85031)<br>4220 West Glenrosa<br>P.O. Box 14279<br>(602) 272-6663                                       | <b>8</b> CALIFORNIA, San Francisco (94107)<br>550 Third Street<br>(415) GA 1-2937                       | <b>17</b> GEORGIA, Atlanta (30336)<br>5225 Philip Lee Drive<br>(404) 344-8622                                 |
| <b>2</b> ARKANSAS, No. Little Rock (72114)<br>P.O. Box 294<br>(501) 945-1678  | <b>9</b> CALIFORNIA, San Leandro (94577)<br>2140 Davis Street<br>(415) LO 8-3427                        | <b>18</b> GEORGIA, Atlanta (30306)<br>1167 Zonolite Place, N.E.<br>P.O. Box 8127, Station F<br>(404) 876-3681 |
| <b>3</b> CALIFORNIA, Huntington Park (90256)<br>6069 Maywood Avenue<br>(213) 589-6281   | <b>10</b> CALIFORNIA, Vernon (90058)<br>4400 District Boulevard<br>(213) 581-8683                       | <b>19</b> GEORGIA, Atlanta (30318)<br>520 Permalume Place, N.W.<br>(404) 355-4739                             |
| <b>4</b> CALIFORNIA, Los Angeles (90041)<br>California Zonolite Co.<br>758 Colorado Boulevard<br>P.O. Box 41077<br>(213) 254-5193 | <b>11</b> COLORADO, Denver (80223)<br>111 South Navajo Street<br>(303) 744-2746                         | <b>20</b> GEORGIA, Brunswick (81520)<br>P.O. Box 130<br>(912) 265-6900  |
| <b>5</b> CALIFORNIA, Los Angeles (90022)<br>7237 East Gage Avenue<br>(213) 927-1461   | <b>12</b> FLORIDA, Boca Raton (33432)<br>1555 N.W. First Avenue<br>(305) 395-2424                       | <b>21</b> GEORGIA, Chamblee (30005)<br>5238 Peachtree Road N.E.<br>(404) 457-5261                             |
| <b>6</b> CALIFORNIA, Modesto (95353)<br>416 Hosmer Street<br>(209) 529-6210   | <b>13</b> FLORIDA, Boca Raton (33432)<br>Industrial Boulevard<br>P.O. Box 67<br>(305) 395-3103          | <b>22</b> ILLINOIS, Chicago (60608)<br>2512 West 24th Street<br>(312) 247-5600                                |
| <b>7</b> CALIFORNIA, Newark (94560)<br>California Zonolite Co.<br>6851 Smith Avenue<br>P.O. Box 217<br>(415) 793-9111             | <b>14</b> FLORIDA, Hialeah (33010)<br>1050 S.E. 5th Street<br>(305) 885-2441                            | <b>23</b> ILLINOIS, Chicago (60638)<br>6050 West 51st Street<br>(312) 767-3223                                |
|   | <b>15</b> FLORIDA, Jacksonville (32202)<br>1530 East Adams Street<br>(904) 355-8431                     | <b>24</b> ILLINOIS, Chicago (60638)<br>6051 West 65th Street<br>(312) 586-2627                                |
|   | <b>16</b> FLORIDA, Tampa (33605)<br>35th and 3rd Avenue<br>P.O. Box 5047 Ybor Station<br>(813) 248-1554 | <b>25</b> ILLINOIS, Chicago (60638)<br>6051 West 65th Street<br>(312) 767-4282                                |
|   |   | <b>26</b> ILLINOIS, Chicago (60643)<br>12300 South Ashland Avenue<br>(312) FU 9-4900                          |

- Plants (continued)
- 27 KANSAS, Wichita (67214)**  
616 Pennsylvania  
(316) FO 3-6551
- 28 KENTUCKY, Owensboro**  
(42301)  
Route 60 East, P.O. Box 61  
(502) 683-1561
- 29 KENTUCKY, Wilders, Newport**  
(41701)  
112 North Street  
(606) 291-3500
- 30 LOUISIANA, New Orleans**  
(70121)  
P.O. Box 10262  
(504) 834-5817
- 31 MARYLAND, Beltsville**  
(20705)  
P.O. Box 347  
(301) 474-8200
- 32 MASSACHUSETTS, Acton**  
(01720)  
RFD #1, P.O. Box 263  
(617) 897-2905
- 33 MASSACHUSETTS, Adams**  
(01220)  
Harmony Street  
(413) 743-0546
- 34 MASSACHUSETTS, Cambridge**  
(02140)  
62 Whittemore Avenue  
(617) 876-1400
- 35 MASSACHUSETTS, Easthampton (01027)**  
P.O. Box 112  
(413) 527-1890
- 36 MASSACHUSETTS, Marlboro**  
(01752)  
33 Hayes Memorial Drive  
(617) 481-0900
- 37 MICHIGAN, Dearborn (48120)**  
14300 Henn Avenue  
(313) 846-1010
- 38 MINNESOTA, Minneapolis**  
(55422)  
4725 Olson Highway  
(612) 645-0481
- 39 MINNESOTA, Minneapolis**  
(55418)  
660 19th Avenue N.E.  
(612) 789-3539
- 40 MISSOURI, St. Louis (63110)**  
1705 Sulphur Avenue  
(314) 645-8786
- 41 MONTANA, Libby (59923)**  
P.O. Box 607  
(406) 293-4131
- 42 NEBRASKA, Omaha (68107)**  
3520 "I" Street  
(402) 731-3662
- 43 NEW JERSEY, North Bergen**  
(07047)  
2133 85th Street  
(New Jersey) (201) UN 9-5220  
(New York) (212) LO 4-1747
- 44 NEW JERSEY, Trenton**  
(08607)  
336 Whitehead Road  
P.O. Box 2124  
(609) 587-2571
- 45 NEW YORK, Long Island City**  
(11101)  
21-24 39th Avenue  
(212) 392-5300
- 46 NEW YORK, Weedsport**  
(13166)  
P.O. Box 310  
(315) 834-5711
- 47 NORTH CAROLINA, High Point (27260)**  
1701 Prospect St. Ext.  
P.O. Box 1308  
(919) 888-9978
- 48 OHIO, Cleveland (44112)**  
1125 West 11th Street  
(216) MAin 1-3517
- 49 OREGON, Portland (97227)**  
Vermiculite Northwest Inc.  
2303 North Harding Street  
(503) AT 8-5195
- 50 PENNSYLVANIA, Ellwood City (16117)**  
12th St. & Factory Ave.  
(412) 758-5548
- 51 PENNSYLVANIA, New Castle**  
(16102)  
202 East Cherry Street  
P.O. Box 1207  
(412) 654-7721
- 52 PENNSYLVANIA, Quakertown**  
(18951)  
45 N. Fourth Street  
(215) 536-4600
- 53 SOUTH CAROLINA, Enoree**  
(29335)  
(803) 495-3353
- 54 TENNESSEE, Nashville**  
(37206)  
4061 Powell Ave.  
(615) 242-5496
- 55 TEXAS, Houston (77008)**  
611 West 22nd Street  
(713) UN 4-5170
- 56 TEXAS, Houston (77001)**  
4323 Crites Street  
(713) FA 3-8354
- 57 WASHINGTON, Auburn**  
(98002)  
P.O. Box A  
(206) 852-5725
- 58 WASHINGTON, Spokane**  
(99201)  
Vermiculite Northwest Inc.  
North 1318 Maple Street  
(509) FAirfax 5-2541
- 59 WISCONSIN, Milwaukee**  
(53208)  
900 North 43rd Street  
(414) 344-6667
- CANADA**
- 60 ALBERTA, Edmonton**  
14810 123rd Avenue  
(403) 455-9161
- 61 ONTARIO, Scarborough**  
66 Hymus Road  
(416) PL 9-4461
- 62 QUEBEC, Montreal, LaSalle**  
255 Lafleur Avenue  
(514) 366-3070
- PUERTO RICO**
- 63 RIO PIEDRAS**  
Insular Highway 845, km. 0.5.  
Cupey Bajo  
767-7131

DEWEY AND ALMY CHEMICAL DIVISION

▲ Sales Offices

UNITED STATES

- 64** ARIZONA, Phoenix (85031)  
4220 West Glenrosa  
P.O. Box 14279  
(602) 272-6663
- 65** ARKANSAS, No. Little Rock (72114)  
P.O. Box 294  
(501) 945-1678
- 66** CALIFORNIA, Burlingame (94010)  
1141 California Drive  
(415) 342-9038
- 67** CALIFORNIA, Huntington Park (90256)  
6069 Maywood Avenue  
(213) 589-6281
- 68** CALIFORNIA, Los Angeles (90041)  
758 Colorado Boulevard  
(213) 254-5193
- 69** CALIFORNIA, Los Angeles (90041)  
California Zonolite Co.  
758 Colorado Boulevard  
P.O. Box 41077  
(213) 254-5193
- 70** CALIFORNIA, Los Angeles (90022)  
7237 East Gage Avenue  
(213) 927-1461
- 71** CALIFORNIA, Newark (94560)  
California Zonolite Co.  
6851 Smith Avenue  
P.O. Box 217  
(415) 793-9111
- 72** CALIFORNIA, San Francisco (94107)  
550 Third Street  
(415) GA 1-2937
- 73** CALIFORNIA, San Leandro (94577)  
2140 Davis Street  
(415) LO 8-3427
- 74** COLORADO, Denver (80216)  
P.O. Box 5023 Terminal Annex  
(303) 388-4625
- 75** COLORADO, Denver (80223)  
111 South Navajo Street  
(303) 744-2746
- 76** DISTRICT OF COLUMBIA, Washington (20005)  
910 Brentwood Road, N.E.  
(202) 338-6224
- 77** FLORIDA, Boca Raton (33432)  
1555 N.W. First Avenue  
(305) 395-2424
- 78** FLORIDA, Boca Raton (33432)  
Industrial Boulevard  
P.O. Box 67  
(305) 396-3103
- 79** FLORIDA, Clearwater (33516)  
1828 Audubon Drive  
(813) 446-7665
- 80** FLORIDA, Hialeah (33010)  
1050 S.E. 5th Street  
(305) 885-2441
- 81** FLORIDA, Jacksonville (32202)  
1530 East Adams Street  
(305) 355-8431
- 82** FLORIDA, Tampa (33605)  
35th and 3rd Avenue  
P.O. Box 5047 Ybor Station  
(813) 248-1554
- 83** GEORGIA, Atlanta (30336)  
5225 Philip Lee Drive  
(404) 344-8622
- 84** GEORGIA, Atlanta (30306)  
1167 Zonolite Place, N.E.  
P.O. Box 8127, Station F  
(404) 876-3681
- 85** GEORGIA, Atlanta (30318)  
520 Permalume Place, N.W.  
(404) 355-4739
- 86** GEORGIA, Brunswick (31520)  
P.O. Box 130  
(912) 265-6900
- 87** GEORGIA, Chamblee (30005)  
5238 Peachtree Road N.E.  
(404) 457-5261
- 88** ILLINOIS, Chicago (60608)  
2512 West 24th Street  
(312) 247-5600
- 89** ILLINOIS, Chicago (60638)  
6050 West 51st Street  
(312) 767-3223
- 90** ILLINOIS, Chicago (60638)  
6051 West 65th Street  
(312) 586-2627
- 91** ILLINOIS, Chicago (60638)  
6051 West 65th Street  
(312) 767-4282
- 92** ILLINOIS, Chicago (60654)  
Merchandise Mart Plaza  
(312) 527-5700
- 93** ILLINOIS, Chicago, (60643)  
12300 South Ashland Avenue  
(312) FU 9-4900
- 94** KANSAS, Wichita (67214)  
616 Pennsylvania  
(316) FO 3-6551
- 95** KENTUCKY, Wilders, Newport (41701)  
112 North Street  
(606) 291-3500
- 96** LOUISIANA, New Orleans (70121)  
P.O. Box 10262  
(504) 834-5817
- 97** MARYLAND, Baltimore (21202)  
414 Water Street  
(301) 752-6656
- 98** MARYLAND, Beltsville (20705)  
P. O. Box 347  
(301) 474-8200
- 99** MASSACHUSETTS, Cambridge (02140)  
62 Whittemore Avenue  
(617) 876-1400
- 100** MASSACHUSETTS, Easthampton (01027)  
P. O. Box 112  
(413) 527-1690
- 101** MASSACHUSETTS, Marlboro (01752)  
33 Hayes Memorial Drive  
(617) 481-0900
- 102** MICHIGAN, Dearborn (48120)  
14300 Henn Avenue  
(313) 846-1010
- 103** MICHIGAN, Pontiac (48054)  
4500 Pontiac Lake Road  
(313) 674-0028

- ▲ Sales Offices (continued)**
- 104 MICHIGAN, Southfield (48075)**  
30524 Southfield, Apt. 219  
(313) 642-8923
- 105 MINNESOTA, Minneapolis (55422)**  
4725 Olson Highway  
(612) 545-0481
- 106 MINNESOTA, Minneapolis (55418)**  
660 19th Avenue, N.E.  
(612) 789-3539
- 107 MINNESOTA, St. Paul (55104)**  
1793 Selby Avenue  
(612) 645-5309
- 108 MINNESOTA, St. Paul (55104)**  
1282 University Avenue  
(612) 646-4216
- 109 MISSOURI, St. Louis (63103)**  
2226 Olive Street  
(314) 421-4647
- 110 MISSOURI, St. Louis (63110)**  
1705 Sulphur Avenue  
(314) 645-8786
- 111 NEBRASKA, Omaha (68107)**  
3520 "I" Street  
(402) 731-3662
- 112 NEW JERSEY, Chatham (07928)**  
323 Main Street  
(201) 635-6280
- 113 NEW JERSEY, Ho-Ho-Kus (07423)**  
400 Hollywood Avenue  
(201) 445-3626
- 114 NEW JERSEY, North Bergen (07047)**  
2133 85th Street  
(New Jersey) (201) UN 9-5220  
(New York) (212) LO 4-1747
- 115 NEW JERSEY, Ramsey (07446)**  
32 Finch Street  
(201) 327-1809
- 116 NEW JERSEY, Trenton (08607)**  
336 Whitehead Road  
P. O. Box 2124  
(609) 587-2570
- 117 NEW YORK, Long Island City (11101)**  
21-24 39th Avenue  
(212) 392-5300
- 118 NEW YORK, New York (10017)**  
122 East 42nd Street  
(212) MO 1-3085
- 119 NEW YORK, Weedsport (13166)**  
P. O. Box 310  
(315) 834-5711
- 120 NORTH CAROLINA, Charlotte (28209)**  
215 Manning Drive  
(704) 525-0327
- 121 NORTH CAROLINA, High Point (27260)**  
1701 Prospect St. Ext.  
P. O. Box 1306  
(919) 888-9978
- 122 OHIO, Cincinnati (45208)**  
3164 Linwood Road  
(513) 871-6162
- 123 OHIO, Cincinnati (45236)**  
4157 Hunt Road  
(513) 793-6131
- 124 OHIO, Cleveland (44112)**  
1125 West 11th Street  
(216) MA 1-3517
- 125 OHIO, Cleveland (Lakewood) (44107)**  
14820 Detroit Avenue  
(216) 221-2249
- 126 OREGON, Portland (97227)**  
Vermiculite Northwest Inc.  
2303 North Harding Street  
(503) AT 8-5195
- 127 OREGON, Portland (97210)**  
3215 N.W. Yeon Avenue  
(503) 222-4289
- 128 PENNSYLVANIA, Ellwood City (16117)**  
12th St. & Factory Ave.  
(412) 758-5548
- 129 PENNSYLVANIA, New Castle (16102)**  
202 East Cherry Street  
P. O. Box 1207  
(412) 654-7721
- 130 PENNSYLVANIA, Philadelphia (19107)**  
919 Walnut Street  
(215) 822-2278
- 131 PENNSYLVANIA, Quakertown (18951)**  
45 N. Fourth Street  
(215) 536-4800
- 132 SOUTH CAROLINA, Traveler's Rest (29690)**  
P. O. Box 217  
(803) 834-4144
- 133 TENNESSEE, Nashville (37206)**  
4061 Powell Avenue  
(615) 242-5496
- 134 TENNESSEE, Nashville (37205)**  
200 Woodmont Circle  
(615) 297-2713
- 135 TEXAS, Dallas (75247)**  
3200 Irving Boulevard  
(214) ME 1-7210
- 136 TEXAS, Houston (77008)**  
611 West 22nd Street  
(713) UN 4-5170
- 137 TEXAS, Houston (77001)**  
4323 Crites Street  
(713) FA 3-8354
- 138 UTAH, Salt Lake City (84121)**  
1346 East 6860 South  
(801) 255-8331
- 139 WASHINGTON, Auburn (98002)**  
P. O. Box A  
(206) 852-5725
- 140 WASHINGTON, Auburn (98002)**  
Vermiculite Northwest Inc.  
P. O. Box A  
(206) 852-5725
- 141 WASHINGTON, Seattle (98125)**  
11520 Bothell Way N.E.  
(206) 363-6943
- 142 WASHINGTON, Spokane (99201)**  
Vermiculite Northwest Inc.  
North 1316 Maple Street  
(509) FAirfax 5-2541

▲ Sales Offices (continued)

- 143 WISCONSIN, Milwaukee**  
(53208)  
900 North 43rd Street  
(414) 344-6667
- 144 WISCONSIN, Milwaukee**  
(53209)  
4377 North Teutonia Avenue  
(414) 445-0290
- CANADA**
- 145 ALBERTA, Calgary**  
701 Briggs Avenue, S.E.  
(403) 273-4147
- 146 ALBERTA, Edmonton**  
14810 123rd Avenue  
(403) 454-4511
- 147 BRITISH COLUMBIA, Prince George**  
1910-1st Avenue  
(604) 564-5044
- 148 BRITISH COLUMBIA, Vancouver**  
1120 Hamilton Street  
(604) 682-6544
- 149 BRITISH COLUMBIA, Victoria**  
1545 Shasta Place  
(604) 384-0417
- 150 MANITOBA, Winnipeg**  
Dubin & Sherwin Road  
(204) 786-5681
- 151 ONTARIO, Oakville**  
111 Dundas Street  
(416) 745-5841
- 152 ONTARIO, Scarborough**  
66 Hymus Road  
(416) PL 9-4461
- 153 QUEBEC, Montreal, LaSalle**  
255 Lafleur Avenue  
(514) 366-3362
- 154 SASKATCHEWAN, Regina**  
2100 Dewdney Avenue  
(306) 569-0891
- 155 SASKATCHEWAN, Saskatoon**  
2013 Alberta Avenue  
(306) 244-1553

**PUERTO RICO**

- 156 HATO REY**  
Banco Popular Center  
Suite 1430  
766-6020

■ **Zonolite Processing Distributors' Plants**

**UNITED STATES**

- 157 HAWAII, Honolulu (96819)**  
842-A Mapunapuna Street  
Tel. 895-105
- 158 MONTANA, Great Falls (59401)**  
Robinson Insulation Co.  
1226 North River Drive  
P. O. Box 1419  
(408) 453-1291
- 159 NEW MEXICO, Albuquerque (87107)**  
Southwest Vermiculite Co.  
5119 Edith Boulevard, N.E.  
P. O. Box 6302  
(505) 845-1633
- 160 NORTH DAKOTA, Minot (59401)**  
Robinson Insulation Co.  
626 Fourth Avenue, N.E.  
P. O. Box 1782  
(701) 24-191
- 161 OKLAHOMA, Oklahoma City (73111)**  
201 North Eastern  
P. O. Box 11402  
(405) CE 2-2058
- 162 TEXAS, Dallas (75222)**  
Texas Vermiculite Company  
2651 Manila Road  
P. O. Box 6306  
(214) ME 7-0900
- 163 TEXAS, Houston (77008)**  
Vermiculite Products, Inc.  
3025 Maxroy Street  
P. O. Box 7327  
(713) 864-4487
- 164 TEXAS, Lubbock (79401)**  
Southwest Vermiculite Co.  
Route 3, Box 191-8  
(806) PO 3-1945

- 165 TEXAS, San Antonio (78204)**  
Texas Vermiculite Company  
354 Blue Star  
P. O. Box 9114, Guilbeau Sta.  
(512) CA 3-5781

- 166 UTAH, Salt Lake City (84110)**  
Vermiculite Intermountain, Inc.  
333 West First South  
P. O. Box 2396  
(801) 328-0117

**CANADA**

- 167 ALBERTA, Calgary**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
4030 Eighth Street, S. E.  
Box 69, Postal Station "A"  
(403) 243-2741
- 168 ALBERTA, Edmonton**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
P. O. Box 174  
(403) 424-5141
- 169 ALBERTA, Lethbridge**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
P. O. Box 1104  
(403) 327-8668
- 170 BRITISH COLUMBIA, Vancouver**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
476 Industrial Avenue  
(604) 684-2267
- 171 BRITISH COLUMBIA, Vancouver**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
1075 Melville Street  
(604) 683-6831
- 172 MANITOBA, Winnipeg**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
760 Wall Street  
(204) 722-2561
- 173 ONTARIO, St. Thomas**  
F. Hyde & Company, Ltd.  
94 Woodworth Avenue  
(519) ME 1-8790
- 174 ONTARIO, Toronto**  
Grant Industries, a division of  
Eddy Match Company, Ltd.  
24 Coronet Road  
(416) 239-8191

## AUTOMOTIVE PRODUCTS

Battery plate separators, glass fiber mats, wetting agents, battery dry charge process equipment and specialty papers.

### PRODUCTS

#### DARAK-ARMORCOAT-ARMORIS Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass fiber mats attached for heavy duty usage. Packaged in corrugated cartons, approximately 2,000 per carton.

- 28 - 32 - 62
- ▲ 73 - 99 - 104 - 115 - 153

#### Glass Fiber Mats

Distributed to the battery industry. Used between separators and plates in industrial storage batteries. Cut to size and packaged in cartons to customer specifications.

- ▲ 73 - 99 - 104 - 115 - 153

#### Hurricane Battery Dry Charge Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

- 34
- ▲ 73 - 99 - 104 - 115 - 153

#### Specialty Papers

Saturating papers and other low and medium density papers. Used as a base material for latex, phenolic, glue-glycerine and other impregnations. Latex beater-addition papers also available. Grades, basis weights, thickness, colors and widths vary with customer requirements. Packaged in rolls.

- 28
- ▲ 99

#### Wetting Agents

Used by battery manufacturers to pre-wet plate separators in dry charge automotive storage batteries. Reduce surface tension and improve circulation of battery acid between the plates. Packaged in 5-gallon pails and 55-gallon drums.

- 28 - 32 - 62
- ▲ 73 - 99 - 104 - 115 - 153

## CONSTRUCTION MATERIALS

Specialty products for construction and building maintenance.

### DAREX CONCRETE PRODUCTS

#### Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

#### Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

#### Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

#### Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

#### Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- 5 - 9 - 23 - 24 - 34 - 60 - 61
- ▲ 78 - 72 - 74 - 76 - 83 - 99 - 99
- 103 - 107 - 114 - 122 - 127 - 135 - 137
- 139 - 145 - 148 - 148 - 149 - 150 - 152
- 153 - 154 - 155

### HORN BUILDING PRODUCTS

#### Adhesives and Bonding Agents

Resin, latex and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

**Caulks and Sealants**

Acrylic, polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

**Floor Materials**

Products to maintain, protect and repair masonry surfaces. Includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

**Specialty Products**

Architectural, construction, and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

**Technical Coatings**

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

**Waterproofing and Roofing Materials**

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

- 5 - 8 - 24 - 43 - 56 - 61
- ▲ 70 - 72 - 74 - 76 - 83 - 90 - 99
- 103 - 107 - 114 - 122 - 127 - 135 - 137
- 138 - 145 - 146 - 148 - 149 - 150 - 152
- 153 - 154 - 155

**ROCK PRODUCTS CHEMICALS**

**Air Entraining Additives**

Saponified tall oil, sulfonated hydrocarbon and alkyl sulfonate type chemicals for use in manufacturing air entraining portland and masonry cements to give controlled air void systems in mortars and concretes.

**Grinding Aids**

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack tendencies in portland and other hydraulic cement.

**Retarding Additives**

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- 9 - 23 - 34 - 45
- ▲ 73 - 90 - 152

**SERVICISED HIGHWAY & HEAVY CONSTRUCTION PRODUCTS**

**Bridge Products**

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

**Joint Sealing Compounds**

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

**Premolded Joint Fillers**

Cork, asphalt, sponge rubber, neoprene, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

**Specialty Products**

Form coatings and accessories, cures, hardeners and bonding agents for masonry construction and repair.

**Waterstops**

Rubber, PVC, and neoprene waterstops, fittings and accessories.

- 25 - 43 - 61
- ▲ 70 - 72 - 91 - 114 - 127 - 137
- 145 - 150 - 152 - 153

**CONTAINER AND CHEMICAL SPECIALTIES**

Flowed-in gasketing compounds and high-speed application machinery for hermetically sealing rigid containers such as metal and composite cans, pails and drums and for bottle crowns, jar closures and industrial parts. Container coatings; meteorological balloons; medical and industrial gas absorbents.

**CONTAINER PRODUCTS**

**Aerosol Valve Cup Gasketing Compounds**

Flowed-in, solvent base sealing compounds vulcanized in place to form tough, resilient gaskets that hold high pressures and resist attack by aggressive solvents in the package. Available in 55-gallon drums and 5-gallon pails.

- 23 - 32 - 62
- ▲ 76 - 83 - 89 - 99 - 151 - 153

**Can Sealing Compounds**

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary packs for food, oil, paints, solvents and other general line products. Available in tank car, tank truck or 55-gallon drums.

- 9 - 17 - 23 - 32 - 34 - 62
- ▲ 73 - 83 - 89 - 99 - 151 - 153

**Composite Can Cements**

**Hot-melt Cements:** Used to cement inner liner fold-back and as a butt-joint filleting adhesive. Firmly anchors the structural plies and inner liner and fills the butt-joint with a pack-resistant impermeable barrier. Packaged in paperboard cartons and Leverpaks.

**Waterbase Cements:** High-strength, high-mileage, rapid-drying adhesives for laminating spiral can body plies, inner liner plies and label stock. Packaged in 55-gallon drums and 5-gallon pails.

● 34

▲ 73 - 83 - 89 - 99 - 151 - 153

**Composite Can Label Coating**

Pigmented, polyvinylidene chloride, high-barrier coating for composite can label stock. Full range of colors, including metallic hues. Available in pails, drums or tank cars.

● 32

▲ 73 - 83 - 89 - 99 - 151 - 153

**Composite Can Sealing Compounds**

Flowed-in solvent-base compounds that form solid rubbery gaskets when air-dried or oven-dried. Prevent end seam wicking while insuring a hermetic end seal and increasing abuse resistance. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 17 - 23 - 32 - 62

▲ 73 - 83 - 89 - 99 - 151 - 153

**Compound Application and Drying Equipment**

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts at speeds up to 800 units per minute.

● 34

▲ 73 - 83 - 89 - 99 - 151 - 153

**Crown Sealing Compounds**

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of beverage bottle closures. Particularly effective for sealing the new, easy-open bottle caps and crowns. Available in 55-gallon drums and Leverpaks.

● 9 - 23 - 34 - 62

▲ 73 - 83 - 89 - 99 - 151 - 153

**DARACAN Inner Barrier System**

Polyvinylidene chloride coatings for composite containers. High barrier coating imparts low MVTR, low gas transmission and greaseproof properties to fiber

can stock, for packaging motor oil, frozen fruits and juices, paint, permanent anti-freeze, shortening and many other products. System includes pre-coat and optional slip-coat.

● 32

▲ 73 - 83 - 89 - 99 - 151 - 153

**Dispersing Solvents**

Used for dispersing and for diluting solvent-base sealing compounds. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 17 - 23 - 32 - 62

▲ 73 - 83 - 89 - 99 - 151 - 153

**Drawing Emulsions and Drawing Lubricants**

Used in sheet metal stamping operations to reduce wear on dies, reduce fracture of metal coatings and prevent excessive heat buildup. Packaged in 5-gallon pails and 15-gallon drums.

● 9 - 23 - 34 - 62

▲ 73 - 83 - 89 - 99 - 151 - 153

**Flange Coatings**

Solvent-base, waterbase or hot-melt compounds for coating flanges of composite cans. Coating functions as a contact adhesive, strengthens the end seam and seals flange cracks. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 32 - 34

▲ 73 - 83 - 89 - 99 - 151 - 153

**Galvanizing Blanket Crystals**

Inorganic chloride crystals used in galvanizing operations. Placed on the surface of molten zinc, crystals melt quickly and form a protective blanket, reducing formation of fumes, spattering of zinc and heat losses. Packaged in Leverpaks.

● 17 - 23 - 24

▲ 73 - 83 - 89 - 99 - 151 - 153

**Industrial Gasketing Compounds**

Solvent-base, waterbase or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.). Packaged in 5-gallon pails, drums and Leverpaks.

● 23 - 32 - 34

▲ 73 - 83 - 89 - 99 - 151 - 153

**Jar Cap and Lid Gasketing Compounds**

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol types also available for certain processed, non-processed and industrial packs. Packaged in 30-gallon drums.

● 9 - 17 - 23 - 32 - 34 - 62  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Liquid Fluxes**

Soldering fluxes which accelerate the wetting of metal by molten solder. Used for prefluxing or precleaning on can body makers and for hand soldering. Packaged in 5-gallon pails and 55-gallon drums.

● 9 - 34  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Non-Web Compounds**

Used to reduce web formation when sealing compounds are applied by the die-lining process. Packaged in 5-ounce jars and 5-gallon pails.

● 34  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Organic Solders**

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern. Packaged in 50-pound cartons and Leverpaks.

● 34  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Pail and Drum Sealing Compounds**

For end seams of industrial pails and drums, flowed-in waterbase, or solvent base or polyurethane compounds that dry or cure into solid rubbery seals. For removable covers, flowed-in waterbase compounds and plastisols that dry or cure into foamed microcellular gaskets. Packaged in 5-gallon pails and 15-gallon drums.

● 9 - 17 - 23 - 32 - 34 - 62  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Seam Dopes**

Used as a patching material for leaky containers and, under certain conditions, as an end sealant. Packaged in 5-gallon pails and 55-gallon drums.

● 9 - 32 - 34  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Side Seam Cements**

Used to seal side seams of metal containers and spiral seams of composite containers for packs, including

motor oils, frozen foods, frozen concentrates and dry foods. Packaged in 50-pound cartons and 140-pound Leverpaks.

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▲ 73 - 83 - 88 - 89 - 151 - 153

**Soldering Crystals**

Used by can manufacturers to clean solder rolls on automatic can body makers. Packaged in Leverpaks.

● 9 - 17 - 23 - 34 - 62  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Thermoplastic Coatings**

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

● 34  
▲ 73 - 83 - 88 - 89 - 151 - 153

**Wetting Agents, CANSURFASS**

Used to improve performance of waterbase sealing compounds under adverse conditions. Reduces surface tension and allows the compound to spread over oily plate surfaces. Packaged in 5-ounce jars and 5-gallon pails.

● 9 - 23 - 34 - 62  
▲ 73 - 83 - 88 - 89 - 151 - 153

**BALLOONS**

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for the U.S. Armed Forces, government weather agencies, government and private research groups and private businesses. Packaged to specification.

**Captive Balloons and KYTOON Kits-Balloons**

Used wherever instruments must be held captive at altitudes under 2,500 feet to carry aerial cameras, emergency radio antennas, air sampling instruments for air pollution studies, survey targets for civil engineering, radio relays and display advertising.

**Ceiling Balloons**

Standard means of ascertaining cloud ceilings. Burst diameter 2 feet.

**Constant Level Balloons**

Equipped with automatic valve to stop ascent at a predetermined altitude between 40,000 and 80,000 feet. Inflated diameter up to 35 feet.

**Pilot Balloons**

Observed telescopically from the ground to determine direction and velocity of winds up to 45,000 feet. Burst diameter 7 feet.

**Radar Reflective Balloons**

Carry reflective aluminum dipoles inside the skin for accurate radar tracking. Burst diameters range from pilot balloon to sounding balloon size.

**Sea Marker Balloons and Other Products**

Small balloons floated on water as temporary buoys during tide water oil surveys and off-shore explorations. Balloon inflation kits and related products.

**Sounding Balloons**

Carry scientific instruments to 140,000 feet for weather forecasting and to gather cosmic ray, solar radiation, aurora, air glow and other data from the upper atmosphere. Burst diameter up to 60 feet.

● 34  
▲ 90 - 151 - 153

**ABSORBENTS AND CATALYSTS****Gas Absorbents**

A mixture of hydrated lime, sodium hydroxide and potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption. Available in 5-gallon pails, 1-gallon cans, Canister Paks and pre-filled plastic cartridges to fit absorbers.

● 34  
▲ 73 - 90 - 153 and through distributors to the medical trade throughout the United States and in Canada.

**Industrial Catalysts**

Catalysts for certain manufacturing processes, such as industrial gas scrubbing, filter systems, etc.

● 34  
▲ 73 - 90 - 153

**CHEMICAL SPECIALTIES****Shoe Products**

Shoe Cements: natural or synthetic liquid rubber latices, modified by other chemical powders, liquids or solids. Used for counters, combining, folding, box toes, sock linings, and shanks.

Insole material: cellulose fibers impregnated with synthetic rubber and plastic latices.

● 62  
▲ 153

**Coating Bases**

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, jewelry boxes, portable radio cases, etc. Available in a variety of grades, colors, widths and thicknesses.

● 62  
▲ 153

**ORGANIC CHEMICALS**

Polyvinylidene chloride and styrene butadiene latices, vinyl acetate homopolymer and copolymer emulsions, dispersing agents, plasticizers, resins and specialty chemicals used in paints, paper coatings, adhesives, carpets, textiles, plastics, rubber and other applications.

**ORGANIC CHEMICALS PRODUCTS****DARAN Paper Coating Latices**

Polyvinylidene chloride (saran) latex for high barrier packaging applications. Forms films which exhibit extreme barrier protection against water, water vapor, grease, oils and gases. Available in drums or in bulk.

● 28 - 32  
▲ 73 - 83 - 90 - 99 - 112 - 153

**DARATK Adhesive Emulsions**

Polyvinyl acetate emulsions for adhesives, surface coatings, primer sealers and textile and leather finishes. Available in drums or in bulk.

● 28 - 34  
▲ 73 - 83 - 90 - 99 - 112 - 153

**DAREX Carpet and Textile Latices**

Styrene butadiene latex for use in carpet and textile backings. Available in drums or in bulk.

- 28 - 32
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**DAREX Coating Emulsions**

Acrylonitrile and styrene butadiene latices, vinyl acetate, and acrylic emulsions for coatings, saturating, mastics, industrial finishes and specialty products. Available in drums or in bulk.

- 28 - 32 - 34
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**DAREX Copolymer Resins**

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles, floor tiles, etc. Available in 50-pound bags.

- 32
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**DAREX Plasticizers**

Dibutyl maleate and dibutyl fumarate. May be copolymerized with many monomers such as vinyl chloro-

ride, vinyl acetate, vinylidene chloride and styrene. Available in drums or in bulk.

- 32
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**DAREX 86L Pigment Binder**

Ultra-micro-particle size polyvinyl acetate pigment binding emulsion for use in paper coatings. Available in drums or in bulk.

- 28 - 39
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**DAXAD Dispersing Agents**

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, pigment dispersions, tanning, water treatment and other industries. Available in 50-pound bags.

- 34
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**EVERFLEX Paint Emulsions**

Vinyl acetate copolymer emulsions for paints, paper coatings, acoustical tile coatings and specialty industrial finishes. Available in drums or in bulk.

- 28 - 34
- ▲ 73 - 83 - 88 - 98 - 112 - 153

**POLYFIBRON**

Saturating and other specialty papers; polymer-impregnated fiber bases for paper tapes, artificial leather, and book covers; offset and letterpress printing blankets; textile printing blankets and wet finishing equipment; printing, lithographic and mechanical rollers, printing plate adhesives, rubber plate gum, and molded products.

**POLYFIBRON PRODUCTS**

**POLYFIBRON Coating Bases**

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, handbags, jewelry boxes and portable radio cases. Available in a variety of grades, colors and widths and in thicknesses of .008 inch to .030 inch. Packaged in roll lengths of 200 to 500 yards.

- 62
- ▲ 153

**POLYFIBRON Letterpress Packing Blankets**

Compressible polymer-fiber material surfaced with rubber or plastic. Used as packing on flatbed and rotary letterpress equipment. Available in six types and in sizes to fit all standard presses. Also cut to customer specifications. Packaged in tubes or flat cartons.

- 33
- ▲ 88

**IDEAL Mechanical Rollers**

Covering of new and used mechanical rollers with natural and synthetic rubber materials. Used for idler guide, carrier, impression laminating and coating rollers for industries such as paper, textile, steel and tanning.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 87 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

**IDEAL Molded Products**

Compounding and molding of synthetic rubber polymers for products which are subjected to high and low temperatures and which require chemical and abrasion resistance.

- 22
- ▲ 66 - 67 - 79 - 87 - 88 - 87 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

**POLYFIBRON Offset Printing Blankets**

Unique material of compressible polymer fiber surfaced with flexible rubber. Used on commercial offset presses and duplicators to transfer printed images from the plate cylinder to the paper stock. Available in one piece, or two-piece construction with replaceable face, in all sizes to fit commercial presses and duplicators. Packaged in tubes or to customer specifications.

- 33
- ▲ 99

**IDEAL Printing Plate Adhesives**

Natural rubber adhesives used to adhere duplicate printing plates to flexographic printing press cylinders.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

**DAXENE Printing Plate Compound**

Thermosetting plastic material used for molding flat-bed or rotary letterpress printing plates. Available in a variety of formulations to produce hard plates for fine line printing—or soft plates for printing on box-board and paperboard. Packaged in 5-gallon pails and 55-gallon drums.

- 33
- ▲ 99

**IDEAL Printing and Lithographic Rollers**

Covering of new and used rollers for the graphic arts industry. Covering materials include synthetic rubber polymers and plastics. Rollers are used to transfer ink to the printing plate on letterpress and offset printing presses and as pressure rolls on rotogravure printing presses.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

**IDEAL Rubber Plate Gum**

Thermosetting, natural and synthetic rubber materials used for molding typographic and flexographic

duplicate printing plates. Available in a variety of formulations in sheet form. Used extensively in the printing of packaging materials, books and business forms.

- 22
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

**ENDURA Tape and Specialty Backings**

Latex-saturated paper backings for pressure sensitive tapes, waterproof sandpaper and release liners. Available with barrier coats, release coats and bonding coats, singly or in combination. Grades, widths, roll lengths, colors and packaging to customer specifications.

- 52
- ▲ 131

**DAREX Textile Finishing Equipment**

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

- 34
- ▲ 99

**DAREX Textile Printing Blankets**

**Roller Printing Blankets:** Wide, fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

**Screen Printing Blankets:** Wide, fabric-and-rubber laminated, continuous, smooth-surfaced belts.

**Lapping Blankets:** Wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

- 33
- ▲ 99

## ZONOLITE

Mines, processes and markets vermiculite and verzite; processes and markets perlite; manufactures and markets polystyrene foam board and related equipment; markets glass fiber insulation. Zonolite's major markets are building construction, agriculture and industry.

### ZONOLITE PRODUCTS

#### Glass Fiber Insulation

Glass fiber insulating blankets with backing of kraft paper or of reflective aluminum. Insulation for walls, floors, attics and lofts. Sold in 200-400 sq. ft. rolls.

- Stocks at 28 distribution stations located throughout the United States.
- ▲ 64 - 65 - 66 - 71 - 75 - 77 - 78  
80 - 81 - 82 - 84 - 82 - 83 - 85  
86 - 88 - 100 - 102 - 105 - 110 - 111  
116 - 119 - 121 - 126 - 126 - 133 - 136  
140 - 142 - 143

#### Perlite

An inert, siliceous volcanic rock that expands when heated to produce a lightweight (3 to 12 lbs./cu. ft.) granular product. Variety of uses includes:

**Building Construction:** Aggregate for mixing with gypsum or portland cement for lightweight plaster, fireproofing and roof insulation; ingredient in acoustical tile.

**Agriculture:** Soil conditioner; seed starter; plant propagator.

**Industrial Products:** Filter aid; cryogenic insulation.

Perlite is available in multiwall paper bags.

- 11 - 14 - 16 - 29 - 31 - 38 - 42  
44 - 50 and stocks at additional locations throughout the United States.
- ▲ 65 - 75 - 78 - 80 - 81 - 82 - 84  
82 - 83 - 85 - 86 - 86 - 100 - 102  
105 - 110 - 111 - 116 - 119 - 121 - 128  
143

#### Polystyrene Molded Foam Board

Plain finish polystyrene molded foam board or laminated with paper or foil or with other decorative covering. Uses include: Insulation for walls, floors and building perimeters; thermal insulation for farm buildings and for metal buildings; insulation for walk-in coolers and freezers; insulation base for plaster; backer board for metal siding; flotation of docks, rafts

and boats; shock absorber in packages; insulation and cushioning in industrial applications. Sold by the board foot in minimum quantities of 1,000 bd. ft.

- 2 - 6 - 10 - 12 - 18 - 27 - 30 - 31  
35 - 37 - 40 - 48 - 51 - 55 - 57 - 59  
and at additional locations throughout the United States.
- ▲ 64 - 65 - 68 - 68 - 71 - 75 - 77  
78 - 80 - 81 - 82 - 84 - 85 - 82  
83 - 84 - 85 - 86 - 88 - 100 - 102  
105 - 110 - 111 - 116 - 119 - 121 - 124  
126 - 128 - 129 - 136 - 138 - 140 - 142  
143

**Polystyrene Molded Foam Board Manufacturing Equipment**  
Specialty molding and cutting equipment for the manufacture of polystyrene molded foam board.

- 12
- ▲ 77 - 82

#### Roof Deck Materials—"Concrete Products"

Mineralized wood fiber material and pre-cast concrete slabs used in building construction as roof-deck material for steel or concrete framed buildings. 1) Structural wood fiber roof slabs. (Acoustical and insulation properties.) PERMADECK tile in size 1"x32"x96" and PERMADECK plank in sizes 1"x2"x32"x96"; 2½"x32"x96"; 3"x32"x96". Other sizes available on special order. Accessories available for installation such as Bulb Tees, Sub-Purlins and clips. 2) Pre-cast concrete channel slabs, 3½" or 4½" thicknesses in various lengths with required clips and accessories.

- 20
- ▲ 86 - 92

#### Roof Deck Materials—PERL-TILE

Pre-cast, light-weight, Perlite concrete roof slabs—PERL-TILE tiles available in 18" and 24" widths, 3" and 4" thicknesses, and required lengths between 3' and 10'.

- 39
- ▲ 92 - 95 - 100

**Vermiculite**

A micaceous mineral that expands when heated or subjected to specific chemical reactions to produce a dry, lightweight (4 to 12 lb./cu. ft.) granular product having high internal porosity and resilience. Produced in six particle sizes for a wide variety of uses, including:

**Building Construction:** Loose fill insulation for attics, lofts, wall spaces and insulating blocks; aggregate for use with gypsum in lightweight, fireproofing plaster; aggregate for use with portland cement in lightweight, fireproof concrete for floor, roof and roof deck insulation; acoustical coating for machine spraying to ceilings and other surfaces.

**Agriculture, Home Gardening, and Outdoor Living:** Anti-caking agent for high analysis farm fertilizer; chemical carrier for pesticides, herbicides, and plant nutrients; firebase for charcoal in outdoor grills; soil conditioner; mulch; seed starter; plant propagator.

**Industrial Uses:** Additive in fireproofing compounds; insulation of coke ovens; slow cooling of forgings; grease absorbent ingredient; packaging and shipping.

Vermiculite is available in multiwall paper bags and in bulk.

- 1 - 2 - 4 - 7 - 11 - 13 - 15  
16 - 18 - 26 - 29 - 30 - 31 - 35  
37 - 38 - 40 - 41 - 42 - 44 - 46  
47 - 48 - 50 - 53 - 54 - 56 - 58  
63
- ▲ 64 - 66 - 68 - 69 - 71 - 75 - 78  
81 - 82 - 84 - 82 - 83 - 85 - 86  
88 - 100 - 102 - 105 - 110 - 111 - 116  
118 - 119 - 121 - 126 - 128 - 132 - 133  
140 - 142 - 143 - 156
- Processing Distributors 157 through 174

**Vermite**

Exfoliated hydrobiotite. Carrier for animal feed supplements, nutrients and antibiotics. Bulking agent for animal feed. Available in 25-pound bags.

- 41 - 53
- ▲ 82 - 132

# Industrial Chemicals Group

**GRACE**

**HAMPSHIRE CHEMICAL DIVISION**

*Manufactures and markets amino acid chelating or sequestering agents and sarcosine surfactants.*

## General Office

Poisson Avenue  
Nashua, New Hampshire 03060  
(603) 883-7725

## ● Plant

**1 NEW HAMPSHIRE, Nashua**  
(03060)  
Poisson Avenue  
(603) 883-7725

## ▲ Sales Office

**2 NEW HAMPSHIRE, Nashua**  
(03060)  
Poisson Avenue  
(603) 883-7725

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## PRODUCTS

### Chelating Agents

Chemical compounds used to neutralize the undesirable effects of hard water metallic impurities in textile processing, soap and detergent manufacture and other chemical processes and as a scale formation preventative in industrial uses of water. Also used in stabilizing rubber latices, as a fertilizer additive and in a wide variety of specialty applications. Available in liquid form in drums and tank trucks and tank cars, in powder form in 50-pound multiwall bags or, upon request, in 125- or 200-pound fiber drums.

Includes EDTA (ethylenediaminetetracetic acid), NTA (nitrilotriacetic acid) and other amino acid chelates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

### Surfactants

Chemical compounds used in the manufacture of soaps, shampoos, dentifrices, shaving creams and other washing and cosmetic products to improve foaming, lathering and cleansing properties. Available in drums and in tank trucks and tank cars.

Includes sarcosine surfactants and sarcosinates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

**GRACE****OVERSEAS CHEMICAL DIVISION**

*Manufactures and markets a broad line of chemical products in Europe, the United Kingdom, Africa, Asia, Australia and the Pacific area. Product lines include agricultural chemicals; automotive products; construction chemicals and adhesives; container sealing compounds and application equipment; converted plastics; packaging products and equipment; specialty chemicals including chemical intermediates, industrial-institutional cleaning compounds, printing products, tape and backings, water treatment chemicals and services, meteorological balloons and pharmaceuticals.*

**Headquarters Office**

7 Hanover Square  
New York, New York 10005  
(212) 344-1200

**● Plants**

- AUSTRALIA**
- 1 Josh Abrahams & Son Pty. Ltd.  
17-29 William Street  
Botany, N.S.W.  
Tel. 666-7932
- 2 Josh Abrahams & Son Pty. Ltd.  
1126-1134 Sydney Road  
Fawkner, Victoria  
Tel. 35-02-31
- 3 W. R. Grace Australia Pty. Ltd.  
17-29 William Street  
Botany, N.S.W.  
Tel. 666-7932
- 4 Josh Abrahams & Son Pty. Ltd.  
1283 Kingsford Smith Drive  
Eagle Farm, Brisbane,  
Queensland  
Tel. 60-4115
- 5 Josh Abrahams & Son Pty. Ltd.  
69 Leadenhall Street  
Port Adelaide  
South Australia  
Tel. 4-1036
- 6 W. R. Grace Australia Pty. Ltd.  
General Office:  
1126-1134 Sydney Road  
Fawkner, Victoria  
Tel. 35-02-31
- 7 Highley Plastics Proprietary Ltd.  
1 Hale Street  
(Botany) Sydney  
Tel. 666-8536
- 8 Highley Plastics Sales  
(Victoria) Pty. Ltd.  
653 Waterdale Road  
(West Heidelberg)  
Melbourne  
Tel. 45-4978
- 9 Omicron Proprietary Limited  
Bulla Road  
Airport West, Victoria  
Tel. 379-6443
- FRANCE**
- 10 Grace S.A.R.L.  
Epennon (Eure et Loir)  
Tel 817 a Rambouillet  
(Eure et Loir)
- 11 Teroson et Protection  
Chimiques S.A.  
44 Bis Avenue Jean Jaures  
Pantin 93  
Tel. 845-85-30
- GERMANY**
- 12 No longer a  
working number.
- 13 Grace G.m.b.H.  
Friedrichsgabe  
Post Harksheide, Bezirk  
Hamburg  
Mail: P.O. Box 7-10  
Hamburg  
Tel. (0411) 527271
- 14 Grace G.m.b.H.  
638 Bad Homburg V.d. Höhe  
Postfach 251  
Tel. 23068
- 15 Pillnay-Lacke Darex  
G.m.b.H. & Company  
Bruhler Strasse 2-20  
53 Bonn (Rhein)  
Mail: P.O. Box 7-10  
Hamburg  
Tel. Bonn 663031/2
- 16 Teroson-Werke G.m.b.H.  
Chemische Fabrik  
Hans-Bunte Strasse 4  
6900 Heidelberg 1  
Mail: P.O. Box 1720  
6900 Heidelberg 1  
Tel. (06221) 73221
- GREECE**
- 17 Grace Hellas E.P.E.  
Odos Tavros
- ITALY**
- 18 Grace Italiana S.p.A.  
Via Trento 7  
Passirana di Rho (Milan)  
Mail: Caselle Postale 4171  
Milan  
Tel. 93.35.81-2-3-4
- 19 Grace Italiana S.p.A.  
Via Mugnano 7  
Melito di Napoli  
Tel. 33.64.61-2-3
- 20 Boston S.p.A.  
Via Quattro Novembre  
Bollate (Milan), Italy  
Tel. 902-3491
- JAPAN**
- 21 W. R. Grace Kabushiki Kaisha  
Kaneda, Atsugi-SHI  
Kanagawa-Ken
- 22 Fuji-Davison Chemical Ltd.  
No. 1846-2-chome Kozoji-Cho  
Tel. Kozoji 234-529-451
- 23 Nipon DuBois KK  
Gotanda
- NEW ZEALAND**
- 24 W. R. Grace (N.Z.) Limited  
Prosser Street  
Elsdon, Porirua  
Wellington  
Mail: P.O. Box 4, Porirua  
Wellington  
Tel. Porirua 8149
- 25 Highley Plastics (N.Z.) Limited  
Plastak Sales (N.Z.)  
Western Hutt Road  
Belmont (Lower Hutt)  
Tel. Wellington 65-227

## ● Plants (continued)

## PHILIPPINES

- 26 W. R. Grace (Philippines) Inc.  
16 Cristobal Street  
Paco  
Manila  
Tel. 502 961

## SOUTH AFRICA

- 27 W. R. Grace Africa  
(Proprietary) Ltd.  
Mill and Iscor Roads  
Bellville, Cape Province  
Mail: P.O. Box 274  
Bellville, Cape Province  
Tel. 97-1771

## SPAIN

- 28 Grace Española, S.A.  
Carreta de Cornella a Gava  
(C-246), KM-10 San Baudilio  
de Llobregat  
Barcelona  
Mail: Apartado Postal 523  
Barcelona  
Tel. 231.70.13
- 29 Pilman S.A.  
Calle Santa Anna, Sardañola  
(Barcelona Province)
- 30 Teroson Española S.L.  
Calle Los Cinquenta No. 32  
Barrio de San Gabriel  
Alicante  
Tel. 22-05-17

## SWEDEN

- 31 Rexolin Chemicals Aktiebolag  
Drottninggatan 72A  
Helsingborg  
Tel. 12-76-40

## UNITED KINGDOM

- 32 Detarex Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535
- 33 W. R. Grace Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535
- 34 W. R. Grace Limited  
Flexible Packaging Division  
Cromwell Gardens  
St. Neots, Huntingdonshire  
Tel. St. Neots 680
- 35 Silica Gel Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535
- 36 Serviced Limited  
Slough Trading Estate  
Slough, Bucks  
Tel. Slough 26354

- 37 Grace Dubois Ltd.  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

## ▲ Sales Offices

## AUSTRALIA

- 38 Josh Abrahams & Son Pty. Ltd.  
1729 William Street  
Botany, N.S.W.  
Tel. 666-7932
- 39 Josh Abrahams & Son Pty. Ltd.  
1126-1134 Lydary Road  
Fawkner, Victoria  
Tel. 35-02-31
- 40 Josh Abrahams & Son Pty. Ltd.  
1283 Kingsford Smith Drive  
Eagle Farm, Brisbane,  
Queensland  
Tel. 60-4115
- 41 Josh Abrahams & Son Pty. Ltd.  
69 Leadenhall Street  
Port Adelaide, South Australia  
Tel. 4-1036
- 42 W. R. Grace Australia Pty. Ltd.  
General Office:  
1126-1134 Sydney Road  
Fawkner, Victoria  
Tel. 35-0231
- 43 W. R. Grace Australia Pty. Ltd.  
1729 William Street  
Botany, N.S.W.  
Tel. 666-7932
- 44 W. R. Grace Australia Pty. Ltd.  
MLCC Bldg.  
Sydney
- 45 W. R. Grace Australia Pty. Ltd.  
1283 Kingsford Smith Drive  
Eagle Farm, Brisbane,  
Queensland  
Tel. 60-4588
- 46 W. R. Grace Australia Pty. Ltd.  
177 Halifax Street  
Adelaide, South Australia  
Tel. 23-1639
- 47 W. R. Grace Australia Pty. Ltd.  
134 Oats Street  
Carlisle, Western Australia  
Tel. 6-3225
- 48 Highley Plastics Proprietary Ltd.  
1 Hale Street  
(Botany) Sydney  
Tel. 666-8536
- 49 Highley Plastics Sales  
(Victoria) Pty. Ltd.  
663 Waterdale Road  
(West Heidelberg)  
Melbourne  
Tel. 45-4978

- 50 Omicron Proprietary Limited  
Bulla Road  
Airport West, Victoria  
Tel. 379-6443

## AUSTRIA

- 51 Teroson-Werke  
Gesellschaft m.b.H.  
Chemische Fabrik  
Ferinandstrasse-16-18  
Vienna II  
Tel. 241867

## DENMARK

- 52 W. R. Grace A/S  
"Noerreport"  
Frederiksborggade, 15  
Copenhagen K  
Tel. Copenhagen 151514

## FINLAND

- 53 OY Borg Huolto-Service AB  
Savonkatu, 27  
Kouvola  
Tel. 22-47

## FRANCE

- 54 Borg Service S.A.  
64 Rue Marjolin  
Levallois-Perret (Seine)  
Tel. 73-77-541
- 55 Grace S.A.R.L.  
114 Avenue de Neuilly  
92 Neuilly,  
Tel. 637-54-30
- 56 Grace S.A.R.L.  
151 bis Avenue Aristide Briand  
Mulhouse  
Tel. 46-29-84
- 57 Teroson et Protection  
Chimiques S.A.  
44 Bis Avenue Jean Jaures  
Pantin 93  
Tel. 845-85-30

## GERMANY

- 58 No longer a  
working number.
- 59 Borg Service G.m.b.H.  
Heldenstrasse 351  
Tel. 71-60-01
- 60 Grace G.m.b.H.  
Friedrichgasse  
Post Harkasheide, Bezirk  
Hamburg  
Mail: P.O. Box 7-10  
Hamburg  
Tel. (0411) 527271
- 61 Grace G.m.b.H.  
639 Bad Hornburg V.d. Höhe  
Postfach 251  
Tel. 23068

**62** Pillnay-Lacke Darex  
G.m.b.H. & Company  
Brühler Strasse 2-20  
53 Bonn (Rhein)  
Mail: P.O. Box 7-10  
Hamburg, Germany  
Tel. Bonn 663031/2

**63** Teroson-Werke G.m.b.H.  
Chemische Fabrik  
Hans-Bunte Strasse 4  
6900 Heidelberg 1  
Mail: P.O. Box 1720  
6900 Heidelberg 1  
Tel. (06221) 73221

## GREECE

**64** Grace Hellas E.P.E.  
6 Aristidou Street  
Athens  
Tel. Athens 66 002

## HONG KONG

**65** W. R. Grace (Hong Kong) Ltd.  
109 Edinburgh House  
Tel. 221618 & 28

## ITALY

**66** Borg Service S.p.A.  
Via Trento 7  
Passirana di Rho (Milan)  
Tel. 93-35-81

**67** Grace Italiana S.p.A.  
Via Trento 7  
Passirana di Rho (Milan)  
Mail: Caselle Postale 4171  
Milan  
Tel. 93.35.81-2-3-4

**68** Boston S.p.A.  
Via Quattro Novembre  
Bollate (Milan), Italy  
Tel. 902-3491

## JAPAN

**69** Fuji-Davison Chemical Ltd.  
No. 1846-2-chome Kozoji-Cho  
Karugai-ahi, Aichi-ken  
Tel. Kozoji 234-529-451

**70** W. R. Grace Kabushiki Kaisha  
Azabudai Building  
13-3-Chome Azabu Iikura-Machi  
Minato-ku, Tokyo  
Tel. 583-1171-3

**71** Nippon-DuBois K.K.  
Azabudai Building  
13-3 chome Azabu Iigura-Machi  
Minato-Ku  
Tokyo  
Tel. 583-1171-3

## NETHERLANDS

**72** Grace (Nederland) N.V.  
Groothandelgebouw A-7  
Rotterdam  
Tel. Rotterdam 119690

## NEW ZEALAND

**73** W. R. Grace (N.Z.) Limited  
Prosser Street  
Elsdon, Porirua  
Wellington  
Mail: P.O. Box 4, Porirua  
Wellington  
Tel. Porirua 8149

**74** Highley Plastics (N.Z.) Limited  
Plastak Sales (N.Z.)  
Western Hutt Road  
Belmont (Lower Hutt)  
Tel. Wellington 65-227

## PHILIPPINES

**75** W. R. Grace (Philippines) Inc.  
16 Cristobal Street  
Paco  
Manila  
Tel. 502 961

## PORTUGAL

**76** Grace Portuguesa  
(Produtos Quimicos y  
Plasticos) Limitada  
Avenida da Republica No. 5 45  
Matosinhos  
Tel. 93-31-19

## SOUTH AFRICA

**77** W. R. Grace Africa  
(Proprietary) Ltd.  
Mill and Iscor Roads  
Bellville, Cape Province  
Mail: P.O. Box 274  
Bellville, Cape Province  
Tel. 97-1771

**78** W. R. Grace Africa  
(Proprietary) Ltd.  
36 Reserve Street  
Braamfontein, Johannesburg  
Tel. 724-3606

## SPAIN

**79** Borg Service SAE  
Almirante 10  
Madrid  
Tel. 2-22-11-39

**80** Grace Española, S.A.  
Provenza N° 260 5°  
Barcelona  
Mail: Apartado Postal 523  
Barcelona  
Tel. 215.51.2

**81** Pilman S.A.  
Provenza N° 260 5°  
Barcelona  
Tel. 215.51.2

**82** Teroson Española S.L.  
Calle Arayaca No. 22  
Madrid  
Tel. 233.6061

## SWEDEN

**83** Borg Service AB  
Drottninggatan 72A  
Helsingborg  
Tel. 12-76-40

**84** Rexolin Chemicals Aktiebolag  
Drottninggatan 72A  
Helsingborg  
Tel. 12-76-40

## SWITZERLAND

**85** Borg Holding AG  
Gubelstrasse 5, Gubelhof  
6300 Zug  
Tel. 48-5-48

**86** Grace A-G  
Neugasse, 6  
Zurich 5  
Tel. 42-47-11

## UNITED KINGDOM

**87** Borg Service Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

**88** Detarex Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

**89** W. R. Grace Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

**90** Silica Gel Limited  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

**91** Serviced Limited  
2 Caxton Street  
London S.W. 1  
Tel. Sullivan 2632

**92** Grace Dubois Ltd.  
Elveden Road  
Park Royal  
London N.W. 10  
Tel. Elgar 6535

## AUTOMOTIVE PRODUCTS

### Automotive Maintenance Products

A complete line of auto cleaners, polishes, radiator cleaners and sealers, rust inhibitors, windshield cleaners, engine cleaners, spot removers, anti-corrosion coatings and other automotive maintenance products.

- 7 - 8 - 11 - 16 - 20 - 25 - 30 - 33
- ▲ 51 - 52 - 57 - 63 - 68 - 70 - 74 - 82 - 89

### Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass fiber mats attached for heavy-duty usage.

- 13 - 16
- ▲ 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 78 - 80 - 89

### Sealers and Sealants

Sealing mastics based on rubber, rubber-bitumen, SBR and plastisol for use in car manufacture, assembling and maintenance, as well as sealers and bonding materials for the construction and metal fabricating industries.

### Sound Deadeners

Sound and vibration deadening products based on rubber, rubber-and-bitumen, and PVC; in liquid, sheet and multi-layer forms for use in car, bus, truck and train coach manufacture, as well as for the metal fabricating industry.

- 7 - 8 - 11 - 16 - 20 - 25 - 30 - 33
- ▲ 51 - 52 - 57 - 63 - 68 - 70 - 74 - 82 - 89

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## CONSTRUCTION CHEMICALS & ADHESIVES

### DAREX PRODUCTS

#### Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

#### Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

#### Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

#### Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

#### Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack set tendencies in portland and hydraulic cements.

#### Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- 3 - 6 - 10 - 16 - 18 - 21 - 24 - 26
- 27 - 28 - 31 - 36
- ▲ 42 - 43 - 46 - 52 - 55 - 63 - 64
- 65 - 67 - 70 - 73 - 75 - 77 - 78
- 84 - 91

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## CONSTRUCTION MATERIALS

### Adhesives and Bonding Agents

Resin, latex, and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

### Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

### Floor Materials

Products to maintain, protect and repair masonry surfaces; includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

### Specialty Products

Architectural, construction and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

**Technical Coatings**

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat and acid-resistant coatings and swimming pool coatings.

**Waterproofing and Roofing Materials**

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

- 3 - 10 - 16 - 20 - 26 - 36
- ▲ 42 - 43 - 46 - 52 - 55 - 63 - 64 - 65
- 67 - 70 - 73 - 75 - 77 - 78 - 91

**SERVICISED PRODUCTS****Bridge Products**

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

**Joint Sealing Compounds**

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

**Premolded Joint Fillers**

Cork, asphalt, sponge rubber, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

**Specialty Products**

Form coating and accessories, cures, hardeners and bonding agents for masonry construction and repair.

**Waterstops**

Rubber, PVC and neoprene waterstops, fittings and accessories.

- 36
- ▲ 42 - 52 - 55 - 63 - 65 - 77 - 78 - 91

**ADHESIVES****Shoe Products**

Shoe adhesives, leather stains and polishes, leather dyes, pigments and shoe waxes.

- 16 - 20
- ▲ 63 - 64 - 68

**Special and General Adhesives**

Custom-tailored, special purpose adhesives based on natural rubber, synthetic rubber, SBR, NBR or resin for the automotive, construction, flooring, shoe and appliance industries, as well as a broad line of general purpose adhesives for industry.

- 11 - 16 - 20 - 30
- ▲ 42 - 43 - 52 - 55 - 57 - 63 - 64 - 65
- 68 - 70 - 73 - 77 - 80 - 82 - 89

**CONTAINER PRODUCTS****Aerosol Valve Cup Gasketing Compounds**

Flowed-in sealing compound vulcanized in place to form a tough, resilient gasket that holds high pressures and resists attack by aggressive solvents in the package.

- 6 - 10 - 13 - 19 - 21 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 80 - 89

**Can Sealing Compounds**

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary foods, oil, paint, solvents and other general line products.

- 6 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 80 - 89

**Compound Application and Drying Equipment**

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts.

- 6 - 21 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

**Crown Sealing Compounds**

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of bottled beverage closures. Particularly effective for sealing the new, easy-open bottle caps and crowns.

- 6 - 10 - 13 - 19 - 21 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

**Industrial Gasketing Compounds**

Solvent base, waterbase or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.).

**Jar Cap and Lid Gasketing Compounds**

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol-types also available for certain processed, non-processed and industrial packs.

- 8 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 88

**Lacquers (Primary)**

Container and closure lacquers including gold and drawable lacquers, base coats, finishing, tube and special lacquers, solvents and machine cleaning agents.

- 15
- ▲ 52 - 55 - 60 - 62 - 64 - 65
- 67 - 70 - 77 - 80 - 88

**Organic Solders**

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern.

**Pail and Drum Sealing Compounds**

For end seams of industrial pails and drums; flowed-in waterbase or solvent base compounds that dry or cure into solid rubbery seals. For removable covers; flowed-in waterbase compounds that dry or cure into foamed microcellular gaskets.

**Soldering Crystals**

Used by can manufacturers to clean solder rolls on automatic can body makers.

- 8 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 79 - 80 - 88

**Thermoplastic Coatings**

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers.

- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 88

**CONVERTED PLASTICS**

**Polypropylene Monofilaments**

Single denier from 50-250. Limited denier in flat cross-section.

- ▲ 88

**Self Adhesive Films**

Decorated films with contact adhesive.

- 20
- ▲ 68

## PACKAGING PRODUCTS

### SHRINKING BAGS AND CASINGS

**CRYOVAC "L"** for packaging turkeys, whole chickens and ducks.

**CRYOVAC "S"** bags for packaging smoked, cured, and processed meats, cheese, poultry, and fresh red meat.

**CRYOVAC "S"** casings for packaging smoked, cured, and processed meats.

- 6 - 10 - 13 - 18 - 24 - 27 - 29 - 34
- ▲ 42 - 44 - 45 - 47 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 72 - 73 - 75 - 77 - 78 - 80 - 86 - 89

### SHRINKING FILMS

**CRYOVAC "D"** for packaging toys, phonograph albums, specialties, meats and bakery items.

- 10
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

**CRYOVAC "S"** (Polyvinylidene Chloride) for packaging meat and cheese.

- 6 - 10 - 13 - 18 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

**CRYOVAC "L"** (Polyethylene) for packaging whole poultry, fruits, vegetables, and bakery items.

**CRYOVAC "XL"** (Polyethylene) for packaging consumer portions of fresh meat and fish.

- 10 - 13 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

**CRYOVAC "Y"** (Polypropylene) for packaging phonograph albums, toys and general box overwrap. Also **CRYOVAC YH**, a perforated film for produce — both shrink and non-shrink applications.

- 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

**"VPM"** (Polyvinyl Chloride) for produce packaging and multiple product packaging, such as bundling of cans and containers.

- 13 - 28 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

### Carded Packaging

Polycard carded packaging system including blister packaging.

- 6 - 10 - 13 - 34
- ▲ 42 - 55 - 60 - 69

### NON-SHRINKING FILM

#### Converted Bags

Bags converted from polyethylene, cellophane and polypropylene films.

- 1 - 2 - 4 - 5
- ▲ 38 - 39 - 40 - 41

**"V"** (Polyvinyl Chloride) for box overwrapping.

- 6 - 13 - 18 - 28 - 34
- ▲ 52 - 55 - 60

#### Polyethylene Products

Products include heavy duty bags, pouches, tubing and film used in the food packaging industry and in other industrial applications.

- 29
- ▲ 81

### LAMINATES

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats and other formfill seal applications.

- 6 - 10 - 13 - 18 - 29
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60
- 64 - 65 - 67 - 70 - 72 - 73 - 75 - 77
- 81 - 86 - 89

### NET BAGS COTTON (PERMAC)

Strong, cotton net bags in several bright colors for produce packaging that invites customer attention.

- 34
- ▲ 89

### POUCHES

For packaging processed meats, for "boil-in-bag" applications, and for cheese.

- 6 - 10 - 13 - 18 - 24 - 29
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 80 - 86 - 89

### RIGID CONTAINERS

Rigid containers such as cosmetic boxes; vacuum-formed industrial products, plastic lighting panels, plastic trays for food items, and formed products for the automotive and television industry; made from cellulose acetate, PVC sheeting and acrylic resins.

- 9
- ▲ 50

### EQUIPMENT

For customized packaging lines: automatic, semi-automatic and hand operated equipment for edge sealing and vacuum sealing; shrink tunnels and clip applicators.

- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

## SPECIALTY CHEMICALS

## CHEMICAL INTERMEDIATES

## Chelating Agents

Chemical compounds used to neutralize the undesirable effects of hard water metallic impurities in textile processing, soap and detergent manufacture and other chemical processes and as a scale formation preventative in industrial uses of water. Also used in stabilizing rubber latices, as a fertilizer additive and in a wide variety of specialty applications. Available in liquid form in drums and tank trucks and tank cars, in powder form in 50-pound multiwall bags or, upon request, in 125- or 200-pound fiber drums.

Includes EDTA (ethylenediaminetetraacetic acid), NTA (nitrilotriacetic acid) and other amino acid chelates.

- 31 - 32
- ▲ 84 - 88

## DAREX Copolymer Resins

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles and floor tiles.

- 19
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 73 - 77 - 80 - 89

## DAXAD Dispersing Agents

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, tanning and in other industries.

- 10 - 19
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64 65
- 67 - 70 - 73 - 77 - 80 - 89

## Gas Absorbents

A mixture of hydrated lime, sodium hydroxide and potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators, and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption.

- 6 - 10
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

## Industrial Catalysts

RANEY nickel catalysts and metal alloy powders; catalysts for alkylation, dehydrogenation, hydrogenation, oxidation, polymerization, dehydration and other reactions. Custom-made catalysts utilizing as active agents all base- or precious-metal salts.

- ▲ 52 - 61 - 67 - 80 - 90

## Molecular Sieves

Physical forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties.

- ▲ 52 - 61 - 67 - 80 - 90

## Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for a catalyst.

- ▲ 52 - 61 - 67 - 80 - 90

## Packaging Desiccants

A number of adsorbents in small bag sizes for military application, electrical and electronic devices, precision instruments and pharmaceutical products.

- 14 - 21 - 34
- ▲ 52 - 61 - 67 - 69 - 90

## Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Used as a selective adsorbent for gases and liquids and as a desiccant for dehydration of various substances.

- 14 - 21 - 34
- ▲ 52 - 61 - 65 - 67 - 69 - 80 - 90

## SYLOID Micron-Sized Silicas

White, amorphous, silica gel powders used for flattening and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and reproduction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals.

- 14 - 21 - 34
- ▲ 52 - 61 - 65 - 67 - 69 - 80 - 90

## INDUSTRIAL-INSTITUTIONAL CLEANING COMPOUNDS

### Dishwashing and Kitchen Sanitation

A wide selection of machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of specialty products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

### Floor Treatment Materials for Institutions and Industry

Floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces.

### Food Manufacturing - Processing

Specialized processing and maintenance products for use throughout all phases of food processing.

Liquid soaps for surgical, antiseptic, germicidal, disin-

fectant and deodorant requirements; skin creams for hand protection.

### Metal-Working and Other Industrial Manufacturing

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper mill production cleaning, rubber processing anti-adhesives, and production cleaning for rubber manufacturing plants.

### Transportation

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, and marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

● 10 - 16 - 18 - 23 - 31 - 37

▲ 53 - 55 - 63 - 67 - 71 - 72 - 84 - 82

## PRINTING PRODUCTS

### Offset Printing Blankets

A two-piece blanket, with a unique replaceable face of compressible polymer-fiber material surfaced with flexible rubber. Used on commercial web and sheet-fed offset presses and duplicators to transfer printed images from the impression cylinder to the paper stock.

▲ 42 - 55 - 60 - 70 - 77 - 80 - 89

### Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fiber-based fabrics.

▲ 42 - 52 - 56 - 60 - 67 - 70  
73 - 77 - 80 - 89

### Textile Printing Blankets

Roller Printing Blankets: wide fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide fabric-and-rubber laminated continuous smooth-surfaced belts.

Lapping Blankets: wide continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

▲ 42 - 52 - 55 - 56 - 60 - 64 - 65  
67 - 70 - 73 - 77 - 80 - 89

## WATER TREATMENT CHEMICALS

### Biocides

Products to control bacterial slimes, molds and algae in industrial cooling water systems.

### Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

### Cooling Water Treatments

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

### Return Line Treatments

Products designed to protect condensate return systems from corrosive attack by use of filming and neutralizing amines.

### Miscellaneous Products

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

▲ 55 - 67

## TAPE AND BACKINGS

### Specialty Backings

Latex-saturated paper backings for pressure sensitive tapes, waterproof sandpapers and release liners. Available with barrier coats, release coats, bonding coats, singly or in combination.

- 18
- ▲ 52 - 66 - 65 - 67 - 76 - 73 - 77 - 78 - 86 - 88

### Tapes

Reinforced strapping tapes, pressure sensitive masking tapes, cellophane tapes, electrical tapes, protective tapes and tape dispensers.

- 20
- ▲ 60 - 63

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## METEOROLOGICAL BALLOONS

### Balloons

Neoprene latex, one-piece balloons. Primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packed to specification.

- ▲ 42 - 52 - 60 - 65 - 67 - 73 - 77 - 80 - 88

For a complete listing refer to page 64, Dewey and Almy Chemical Division.

## PHARMACEUTICALS

Tranquilizers, coccidiostats and other special pharmaceuticals for sale to bulk formulators.

- 31 - 32
- ▲ 84 - 88

*Manufactures nuclear feed materials; reprocesses and transports spent nuclear fuels.*

**General Office**

906 Wheaton Plaza Office Bldg.  
Wheaton, Maryland 20902  
(301) 933-5440

**● Plants**

**1 NEW YORK, West Valley**  
(14171)  
P. O. Box 124  
(716) 942-3235

**2 TENNESSEE, Erwin (37650)**  
P. O. Box 218  
(615) 742-1721

**▲ Sales Offices**

**3 DISTRICT OF COLUMBIA**  
(Wheaton, Maryland) (20902)  
906 Wheaton Plaza Office Bldg.  
(301) 933-5440

**4 NEW YORK, West Valley**  
(14171)  
P. O. Box 124  
(716) 942-3235

**5 TENNESSEE, Erwin (37650)**  
P. O. Box 218  
(615) 742-1721

**PRODUCTS****Nuclear Fuel Reprocessing/Transportation Services**

Capability for reprocessing a variety of spent nuclear fuels, waste burial and fuel transportation. Reprocessing performed at West Valley, N. Y.

● 1 - 2  
▲ 3 - 4 - 5

**Nuclear Materials**

More than fifty uranium, plutonium and thorium products for nuclear and non-nuclear applications. Used primarily as fuel material for nuclear reactors. Also capacity for unirradiated scrap recovery at Erwin, Tenn. (Detailed list on p. 20.)

● 1 - 2  
▲ 3 - 4 - 5

# Specialty Products Group



## DuBOIS CHEMICALS DIVISION

*Manufactures and markets a wide variety of chemical cleaning compounds for industrial, institutional, transportation and food processing applications.*

### Headquarters Office

634 Broadway  
Cincinnati, Ohio 45202  
(513) 421-5100

### ● Plants

#### UNITED STATES

**1 CALIFORNIA**, City of Industry  
(Los Angeles) (91746)  
Don Julian Rd. & 9th Ave.  
(213) 330-3351

**2 NEW JERSEY**, East Rutherford  
(07073)  
Union Ave. and DuBois Street  
(201) 933-2300

**3 OHIO**, Cincinnati (45202)  
1120 West Front Street  
(Chemicals)  
(513) 420-5100

**4 OHIO**, Cincinnati (45217)  
5129 Kieley Ave. (Equipment)  
(513) 421-5100

**5 TEXAS**, Dallas (75216)  
8770 South Central Expressway  
(214) 376-6491

#### CANADA

**6 ONTARIO**, Weston (Toronto)  
64 Kenhar Drive  
P.O. Box 68  
(416) 749-0720

### ▲ Sales Offices

#### UNITED STATES

**7 ALABAMA**, Birmingham  
(35201)  
2 Findley Ave., West  
(205) 251-0247

**8 CALIFORNIA**, City of Industry  
(Los Angeles) (91746)  
Don Julian Rd. & 9th Ave.  
(213) 330-3351

**9 CALIFORNIA**, San Francisco  
(94107)  
1445 Illinois  
(415) 648-4383

**10 COLORADO**, Denver (80217)  
2500 West 5th Ave.  
(303) 623-3221

**11 CONNECTICUT**, West  
Hartford (06107)  
124 LaSalle Road  
(203) 233-5241

**12 DISTRICT OF COLUMBIA**,  
Washington (20018)  
910 Brentwood Rd., NE  
(202) 529-2535

**13 DISTRICT OF COLUMBIA**,  
Washington (20036)  
Coal Building  
1130 - 17th Street, N.W.  
(202) 296-4417

**14 FLORIDA**, Miami (33147)  
1350 NW 74th Street  
(305) 754-7297

**15 GEORGIA**, Atlanta (30312)  
550 Glenn Street, SW  
(404) PL 3-2149

**16 ILLINOIS**, Chicago (60654)  
Merchandise Mart Plaza  
(312) 527-5700

**17 KENTUCKY**, Covington (41011)  
29 East Second Street  
(606) 261-4541

**18 LOUISIANA**, New Orleans  
(70117)  
2800 Chartres Ave.  
(504) 947-3330

**19 MARYLAND**, Baltimore  
(21218)  
2510 St. Paul Street  
(301) 243-0400

**20 MASSACHUSETTS**, Boston  
(Wellesley) (02181)  
204 Worcester Street  
(617) 235-8484

**21 MICHIGAN**, Detroit (48207)  
1900 East Jefferson  
(313) 567-2600

**22 MINNESOTA**, Minneapolis  
(55401)  
334 North First Street  
(612) 333-1281

**23 MINNESOTA**, Minneapolis  
(55416)  
5700 West 38th Street  
(612) 929-1002

**24 MISSOURI**, Kansas City  
(64116)  
127 West 10th Ave.  
(816) 421-4327

**25 MISSOURI**, St. Louis (63116)  
3660 Gravois Ave.  
(314) 664-5244

**26 NEW JERSEY**, East Rutherford  
(07073)  
Union Ave. & DuBois Street  
(201) 933-2300

**27 NEW YORK**, Buffalo  
(Cheektowaga) (14240)  
2769 Broadway  
(716) 896-3398

**28 NEW YORK**, New York  
(orders)  
(212) 925-3901

**29 NORTH CAROLINA**,  
Greensboro (27420)  
801 Warehouse Street  
(919) 273-3465

**30 OHIO**, Cleveland (44113)  
1300 West 9th Street  
(216) 781-6406

**31 PENNSYLVANIA**,  
Philadelphia (19142)  
2030 South 62nd Street  
(215) 563-3943

**32 PENNSYLVANIA**,  
Pittsburgh (15233)  
3125 Preble Avenue  
(412) 261-4000

**▲ Sales Offices (continued)**

**33 TENNESSEE, Memphis**  
(38117)  
4730 Popular Street  
(901) 682-3400

**34 TEXAS, Dallas (75201)**  
1606 Gold Carpet Street  
LTV Towers Building  
(214) 748-9531

**35 TEXAS, Houston (77006)**  
Suite 248—DeGeorge Bldg.  
3520 Montross Blvd.  
(713) 644-3295

**36 TEXAS, Houston (77001)**  
800 Burnett  
(713) 227-8803

**37 WASHINGTON, Seattle**  
(98134)  
3623 6th Ave., South  
(206) 622-5533

**38 WISCONSIN, Milwaukee**  
(53204)  
531 South Water Street  
(414) 276-3512

**CANADA**

**39 ONTARIO, Weston (Toronto)**  
64 Kenhar Drive  
P. O. Box 68  
(416) 749-0720

**40 QUEBEC, Montreal**  
8535 DeMeade Road  
738-4713

**PRODUCTS**

**DISHWASHING AND KITCHEN SANITATION**

Machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of special products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

**Pre-Soaking**

Powders for cleaning silverware and stainless steel, plastic and china surfaces.

**Machine Ware Washing**

A wide selection of powders and liquids for use in all water conditions, for all types of ware in automatic or semiautomatic operations.

**Dispensing and Control Systems**

Electronic systems for automatic and semiautomatic compound dispensing.

**Rinsing**

Liquid rinse-dry agents and dispensing system for fast, spot-free drying.

**Manual Dishwashing**

A variety of detergents specially designed for varying water conditions and soil loads, with a faucet dispensing system.

**Pot and Pan Washing**

Compounds for pot and pan washing—both machine and manual.

**Kitchen Housekeeping**

Complete line of products for equipment maintenance and for cleaning walls, floors and other items.

- 1 through 6
- ▲ 7 through 40

**FLOOR TREATMENT MATERIALS FOR INSTITUTIONS AND INDUSTRY**

A complete line of floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces. Carpet shampoos.

**Cleaning**

A family of compounds for wax stripping and cleaning all types of floors.

**Sanitizing**

Liquid germicidal disinfectants.

**Sealing**

Multi-purpose, fast-drying floor sealers.

**Waxing and Finishing**

A variety of self-polishing waxes and finishes.

- 1 through 6
- ▲ 7 through 40

**FOOD MANUFACTURING — PROCESSING**

Specialized processing and maintenance products for use throughout all phases of food processing.

**Baking Industry**

Production cleaning and plant maintenance products and dispensing equipment for pans, doughnut fryers, ovens, racks, utensils and other production equipment. Cleaners for floors and walls throughout the bakery.

**Beverage and Brewing Industries**

Chain conveyor lubricants and automatic dispensing equipment for single and multi-unit bottle lines; wide range of synthetic lubricants for all water and plant conditions. Production cleaning and plant maintenance products for use throughout the brewery: tanks, wort coolers, hoses and lines, filters, pasteurizers, kegs, labelers, etc. Plant maintenance products for all phases of soft drink manufacturing.

**Canning and Frozen Food Industry**

Compounds for washing and peeling fruits and vegetables. Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, pasteurizers, heaters, vacuum pans, peeling and husking machinery, flumes, dehydrating equipment, blenders, filling and sealing equipment, glass containers. Cleaners and bacteria control agents for floors and walls throughout the canning and frozen food processing plant.

**Dairy Industry**

Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, bottles, cans, hot and cold lines and other equipment. Also, sanitizing products and cleaners for floors and walls throughout the dairy.

**Meat Processing Industry**

Production cleaning and plant maintenance products and dispensing equipment for smoke houses, hot soaker tanks, spray washers, molds, hooks and trolleys.

**Potato Chip Industry**

Production cleaning and plant maintenance products and dispensing equipment for chip fryers, peelers, slicers, washers, conveyors and cans. Cleaners for floors and walls throughout the potato chip processing plant.

**Poultry Processing Industry**

Production equipment, plant maintenance products, and dispensers for scald tanks, pickers, pan chillers, cookers, washers, scalders, singers, eviscerating troughs, vacuum units. Specialized products for sanitizing and for mineral and protein film removal. Cleaners for floors and walls throughout the poultry processing plant.

● 1 through 6

▲ 7 through 40

**METAL-WORKING AND OTHER INDUSTRIAL MANUFACTURING**

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper-mill production cleaning, rubber processing anti-adhesives and production cleaning for rubber manufacturing plants.

**Dispensing and Control Equipment**

For spraying cleaning solutions; for cleaning tank interiors; for concentration control, automatic proportioning and automatic feeding.

**Cleaning**

Compounds for steam cleaning, heated spray washing, heated and cold immersion tank cleaning and manual cleaning of industrial parts and equipment.

**Cleaning Prior to Electroplating**

Products for electrolytic cleaning and heated immersion soak cleaning of a variety of metal parts.

**Phosphatizing**

A family of compounds for manual iron phosphatizing and for spray and immersion phosphatizing of zinc and iron parts.

**Rust Inhibiting**

Compounds for use in spray washers, immersion tanks and manual operations.

**Etchants for Aluminum**

Compounds for etching in spray washers or immersion tanks and for brightening after etching.

**Barrel Finishing**

A powdered compound for burnishing and brightening.

**Paint Spray Booth Maintenance**

Products for conditioning water, for purging and for masking and stripping dry areas.

**Paint Stripping**

A variety of products for hot and cold immersion stripping, cold spray or brush stripping and for steam injection and steam machine work.

**Industrial Housekeeping**

Compounds for a variety of housekeeping jobs including cleaning electric motors, manual cleaning of machinery and equipment, purging phosphate stages of spray washers or tanks, descaling rinse stages of spray washers or tanks, removing scale from shower room walls and cleaning restroom fixtures.

**Paper Mill Products**

A completely automated felt cleaning system for metering alkaline and/or acid cleaners onto felts during paper processing operations; cleaners for all felt problems and cleaning products for equipment maintenance throughout the processing plant.

**Petroleum Refinery and Petrochemical Plant Cleaning**

Plant maintenance cleaners for emulsion, floor and steam cleaning; process equipment cleaning for columns and towers, heat exchangers, water jackets on compressors and pumps, air coolers; storage tank interior and exterior cleaning; equipment for dispensing cleaners and controlling compound use.

**Rubber Processing**

Anti-adhesives, lubricants, separants, slab and sheet dips, mold cleaners, steam cleaners, rubber bonding agents.

**Water Treatment Chemicals**

A wide line of scale and corrosion control products for boilers, cooling systems and towers.

**Cutting Fluids**

A full line of water soluble cutting and grinding fluids for use by the metal-working industry.

**TRANSPORTATION**

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

**Vehicle Washing**

Complete line of cleaning compounds for steam cleaning, wheel washing, power washing, brush washing in car wash systems; medium and heavy duty exterior cleaners for manual washing.

**Steam Cleaning**

Powders and liquids for steam cleaning of vehicles and parts, designed for light to heavy soil loads.

**Immersion Tank Cleaning**

For heated and cold immersion tank cleaning of aluminum, steel, ferrous and non-ferrous metals, as well as internal combustion engine parts.

**Solvents**

Products for dissolving oil, grease and shop soils and for cleaning electrical motors and equipment.

**Greases and Oils**

A complete line of polymer viscoelastic lubricants for automotive maintenance.

- 1 through 6
- ▲ 7 through 40

**Paint Spray Booth Maintenance**

Products for masking, purging, water conditioning, dry and water wash booths.

**Paint Stripping**

Liquids and powders for use in all types of operations: heated immersion, cold immersion, cold spray, brush stripping and steam cleaning.

**Dispensing and Control Equipment**

Systems for automatic feeding and proportioning of solutions; equipment for cleaning over-the-road tank interiors.

**Housekeeping**

Products for manual cleaning of machinery and equipment, for descaling, for purging phosphate and for many specialized housekeeping problems.

- 1 through 6
- ▲ 7 through 40

# Specialty Products Group

**GRACE**

## DEARBORN CHEMICAL DIVISION

*Manufactures and markets industrial water treatment chemicals, industrial waste water treatment chemicals and services, maintenance and production coatings, pipeline coatings, wrappers and transportation cleaners.*

### General Office

475 Merchandise Mart Plaza  
Chicago, Illinois 60654  
(312) 527-5700

### ● Plants

#### UNITED STATES

- 1 ILLINOIS, Lake Zurich (60047)**  
320 Genesee Street  
(312) 438-8241
- 2 MASSACHUSETTS, Boston**  
(02136)  
50 Business Street  
Hyde Park  
(617) EM 1-2131

#### CANADA

- 3 ONTARIO, Toronto (9)**  
2454-2464 Dundas Street West  
(416) 534-3546

#### ARGENTINA

- 4 Dearborn Chemical International Corp.**  
Balcarce 610  
Buenos Aires  
Tel. 33-1641

#### MEXICO

- 5 Productos Dearborn de Mexico**  
Plaza De Buenavista No. 2  
Desp. 406  
Mexico City  
Tel. 35-55-42

### ▲ Sales Offices

#### UNITED STATES

- 6 CALIFORNIA, Santa Clara**  
(95051)  
(San Francisco)  
3236 McKinley Drive  
(408) 246-3727
- 7 GEORGIA, Atlanta (30305)**  
3133 Maple Drive, N.E.  
(404) 261-8933
- 8 HAWAII, Honolulu (96814)**  
510 Piikoi Street  
Tel. 964-941
- 9 ILLINOIS, Chicago (60654)**  
475 Merchandise Mart Plaza  
(312) 527-5700
- 10 ILLINOIS, Des Plaines (60016)**  
15 North Broadway  
(312) 827-6102
- 11 MICHIGAN, Grosse Pointe Woods (48236)**  
20039 Mack Avenue  
(313) 886-4710
- 12 MISSOURI, La Due (63124)**  
(St. Louis)  
9216 Clayton Road  
(314) 991-2017
- 13 NEBRASKA, Omaha (68114)**  
Swanson Building  
8401 Dodge Street  
(402) 391-7659
- 14 NEW JERSEY, Linden (07036)**  
1601 Linden Avenue East  
P.O. Box 213  
(201) WA 5-1435
- 15 OHIO, Cleveland (44116)**  
Westview Towers  
21010 Center Ridge Road  
(216) 333-4455

- 16 PENNSYLVANIA, Fort Washington**  
(Philadelphia) (19034)  
520 Pennsylvania Avenue  
(215) MI 6-8815
- 17 TEXAS, Richardson (Dallas)**  
(75080)  
Central Exchange Bldg.  
777 S. Central Expressway  
(214) AD 5-4695

#### CANADA

- 18 ALBERTA, Calgary**  
2525 - 4th Avenue, N.W.  
(403) 283-1656
- 19 ONTARIO, Toronto (9)**  
2454-2464 Dundas Street West  
(416) 534-3546
- 20 QUEBEC, Montreal (28)**  
3333 Cavendish Boulevard  
(514) 481-5641

#### ARGENTINA

- 21 Dearborn Chemical International Corp.**  
Balcarce 610  
Buenos Aires  
Tel. 33-1641

#### MEXICO

- 22 Productos Dearborn de Mexico**  
Plaza De Buenavista No. 2  
Desp. 406  
Mexico City  
Tel. 35-55-42

#### PUERTO RICO

- 23 Isla Verde (00913)**  
WD 35 Los Angeles  
Tel. 791-2158

**PRODUCTS**

**WATER TREATMENT**

**Biocides**

Products to control bacterial slimes, molds and algae in industrial cooling water systems.

**Boiler Water Treatments**

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

**Cooling Water Treatments**

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

**Return Line Treatments**

Products designed to protect condensate return systems from corrosive attack by the use of filming and neutralizing amines.

**Miscellaneous Products**

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

- 1 - 3 - 4 - 5
- ▲ 6 through 23

**PROTECTIVE COATINGS**

**Cleaners**

Products for cleaning locomotive equipment and railroad passenger cars.

**Maintenance Coatings**

Products which provide corrosion protection for industrial equipment and structures including heat-resistant coatings.

**Pipeline Coatings**

Products based on epoxies and microcrystalline wax for pipeline protection, both internal and external.

**Pipeline Wrappers**

Custom fabrications including polyester film, fabric or asbestos impregnated and laminated with waxes and asphalts; for use in combination with DEARBORN Pipeline Coatings.

**Production Coatings**

For in-plant and shelf storage protection of metal parts and assemblies in the metal working industries.

- 1 - 2 - 3
- ▲ 6 through 20 - 23

**INDUSTRIAL WASTE WATER TREATMENT**

**Analytical Services**

Analysis of waste water to define pollution problems and monitor efficiency of waste treatment systems.

**Coagulant Aids**

Products to settle solids and improve waste water quality.

**Consulting Services**

Assistance to industry in the development of water pollution control programs.

**Oil Emulsion Breakers**

Products to separate emulsified oils from waste water.

- 1 - 3
- ▲ 6 through 20

# Specialty Products Group

**GRACE**

## VESTAL LABORATORIES DIVISION

*Manufactures and markets products for skin antiseptics and for environmental sanitation in hospitals, institutions, industry and agriculture; building maintenance cleaners, polishes, floor sealers and floor machines.*

### General Office

4963 Manchester Avenue  
St. Louis, Missouri 63110  
(314) 535-1810

### ● Plant

**1** MISSOURI, St. Louis (63110)  
4963 Manchester Avenue  
(314) 535-1810

**4** DISTRICT OF COLUMBIA,  
Washington (20002)  
50 Florida Ave., N.E.  
(202) 462-0682

**8** NEW JERSEY, Jersey City  
(07306)  
921 Bergen Ave.  
(201) 658-9034

### ▲ Sales Offices

**2** CALIFORNIA, Los Angeles  
(90022)  
2119 S. Atlantic Blvd.  
(213) 268-1351

**5** ILLINOIS, Chicago (60612)  
2016 West Carroll  
(812) 829-4756

**9** TEXAS, Ft. Worth (76101)  
P.O. Box 1599  
(817) 923-5722

**3** CALIFORNIA, Burlingame  
(94010)  
1299 Bayshore Highway  
(415) 344-5747

**6** MICHIGAN, Detroit (48219)  
20305 West 7 Mile Road  
(313) 534-4334

**7** MISSOURI, St. Louis (63110)  
4963 Manchester Ave.  
(314) 535-1810

## PRODUCTS

### Agricultural Products

For use in disinfection and cleaning of animal and poultry quarters, veterinary hospitals, zoos and animal research laboratories.

### Health Industries Products

Antiseptic detergents for surgical scrubs and skin cleaning in hospitals, nursing homes and physicians' and dentists' offices.

Germicides and germicidal detergents for use in disinfecting and cleaning all areas in health institutions.

Creams for protecting and disinfecting the skin and for the control of dermatitis.

Surgical soap dispensers - foot operated, wall mount and portable units.

### Industrial and Institutional Building Maintenance Products

Concentrated liquid cleaners for general purpose cleaning of floors, walls and fine surfaces.

Concentrated liquid sanitizing shampoo for carpets and rugs.

Floor finishes, polishes and sealers for all types of floors.

Cleaning equipment including floor machines and accessories.

Rug and carpet cleaning equipment including vacuum and shampoo machine.

● 1  
▲ 2 through 9

## THE VERATEX CORPORATION

Manufactures and distributes disposable paper and plastic products for physician and dentist office use.

### Plant and Sales Office

18810 Fitzpatrick  
Detroit, Michigan 48228  
(313) 838-0942

---

## PRODUCTS

### Absorbent Dental Rolls

Made from surgical cotton.

### Dental Mercury

Refined for dental use.

### Dental Tray Covers

Made from disposable paper.

### Disposable Aprons

Embossed lightweight plastic in two styles. Completely impervious to liquids.

### Disposable Cups

Plastic and paper cups for hot and cold liquids. Treated and untreated.

### Draping Sheets

Absorbent, warm, strong, soft, with embossed texture. Also available with plastic film laminate for positive waterproofing.

### Examination Gowns

Full length and waist length in embossed tissue.

### Examination Table Paper Rolls

Water repellent, soft and strong.

### Hand Towels

High wet-strength absorbent towels in dispenser box.

### Plastic Examination Gloves

Clear plastic, individually folded examination gloves.

### Professional Towels

For use as patient bibs; both paper and plastic-lined.

*Engages in chemical manufacturing, food processing,  
paper manufacturing and converting, agriculture, mining and trading.*

**Headquarters Office**

7 Hanover Square  
New York, New York 10005  
(212) 344-1200

**● Plants**
**ARGENTINA**

- 1 Darex S. A. I. y C.  
Primera Junta 550, Quilmes  
F. C. N. G. R.  
Province of Buenos Aires  
Tel. 203-0880
- 2 Teroson Argentina S.R.L.  
Avenida Velez Sarsfield 5700  
Munro, Provincia  
de Buenos Aires  
Tel. 740-9081

**BOLIVIA**

- 3 Avicaya Ltda.  
Avicaya Lode (Mine)
- 4 Cia. Molinera Boliviana S. A.  
Calle Calama No. 42  
Casilla 495  
Cochabamba  
Tel. 4701
- 5 Cia. Molinera Boliviana S. A.  
Avenida Vasquez  
Casilla 852  
La Paz  
Tel. 29841
- 6 Estalsa, S.A.  
Avicaya Placer (Mine)
- 7 International Mining Co.  
Chojlia (Mine)
- 8 International Mining Co.  
Tanapaca (Mine)
- 9 Sociedad Boliviana de  
Cemento S. A.  
Casilla 557  
Viacha  
Tel. 23615

**BRAZIL**

- 10 Eriez Produtos Magnéticos e  
Metalúrgicos Ltda.  
Rua Othao S/N°  
Vila Leopoldina—Alto da Lapa  
São Paulo  
Tel. 32-8188

- 11 Plastar S.A.  
Comercia e Industria de  
Materias e Produtores Plásticos  
Rua Manoel Preto 1401  
Caixa Postal 12603  
São Paulo  
Tel. 61-1106
- 12 Produtos Químicos "Darex,"  
Limitada  
Avenida Mofarrej No 619  
Vila Leopoldina—Alto da Lapa  
São Paulo  
Tel. 5-0005
- 13 Vulcan Material Plastico S. A.  
Estrada do Colegico, 380  
Caixa Postal 4400  
Rio de Janeiro, G. B.  
Tel. 30-9852
- 14 Vulcan Material Plástico S. A.  
Estrada da Capela do Ribeirao  
Km. 9  
Mogi das Cruzes  
São Paulo

**CHILE**

- 15 Industrias Coia S. A.  
Calle 1 Poniente No. 1201  
Vina del Mar  
Tel. 85181
- 16 Industrias Coia S.A.  
Casilla 6-D  
Vina del Mar  
Tel. 159
- 17 Empresa Pesquera Eperva S. A.  
San Marcos 120  
Casilla 293  
Arica  
Tel. 1790
- 18 Empresa Pesquera Eperva S. A.  
Serrano 302  
Casilla 30-D  
Iquique  
Tel. 485
- 19 Hucke Hermanos S. A. C.  
Yungay 2170  
Valparaíso  
Tel. 7503

**COLOMBIA**

- 20 Carboquímica, S.A./Industrias  
Permapint S.A.  
Kilómetro 9 Carretera a Soacha  
Bogotá  
Tel. 38 02 45
- 21 Colprotex S.A.  
Kilómetro 9 Carretera a Soacha  
Bogotá  
Tel. 38 02 45
- 22 Comestibles La Rosa S. A.  
Carretera Pereira/Santa Rosa  
Apartado Aereo 44  
Pereira  
Tel. 2645
- 23 Conservas California S. A.  
Carretera al Aeropuerto  
Apartado Aereo 1322  
Barranquilla  
Tel. 60210
- 24 Ico Pinturas, S. A.  
Apartado Aereo 2301  
Barranquilla  
Tel. 2.02.75
- 25 Productura de Papeles S. A.  
(PROPAL)  
Apartado Aerco 4412  
Cali  
Tel. 60125
- 26 Química Proco S.A.  
Autopista Sur Km-10  
Itagui  
Tel. 77 00 44
- 27 Sintéticos S.A.  
Calle 31 #44-13  
Medellín  
Tel. 45 19 00

**COSTA RICA**

- 28 Pozuelo, S. A.  
Casilla 1750  
La Uruca, San Jose  
Tel. 4160

**ECUADOR**

- 29 Industria Cartonera Ecuatoriana  
S. A.  
Apartado #186  
Puerto Nuevo, Guayaquil  
Tel. 42040

## ● Plants (continued)

- 30 Pinturas Ecuatorianas S. A.  
(PINTEC)  
Avenida de las Americas  
Apartado 186  
Gusyaquil  
Tel. 22065

## GUATEMALA

- 31 Alimentos y Conservas  
Ducal, S.A.  
Carretera del Atlántico, Km. 7.  
Guatemala City  
Tel. 880537
- 32 Alimentos Kern de  
Guatemala S.A.  
Km. 6½ Carretera del Atlántico  
880182  
P.O. Box 379  
Guatemala City  
Tel. 880-182

## MEXICO

- 33 Cueros Artificiales, S. A. de C. V.  
San Francisco 102  
Apartado 8803  
Mexico 1, D. F.  
Tel. 27-10-21
- 34 DuBois Mexicana, S.A. de C.V.  
Km. 15½ Carretera  
Mexico-Pachuca  
Santa Clara  
Tel. 69-21-70
- 35 Productos Darex, S. A. de C. V.  
Km. 15½ Carretera Mexico-  
Laredo  
Santa Clara  
Tel. 69-21-70

## NEWFOUNDLAND (CANADA)

- 36 International Fishery &  
Fishmeal Ltd.  
P.O. Box 801  
Stephenville  
Tel. (709) 643-2151

## PERU

- 37 Cia. "Arturo Field y La Estrella"  
Ltda.  
Avenida Venezuela 2450  
Lima  
Tel. 39-200
- 38 Cartavio S. A.  
Hacienda Cartavio  
Trujillo  
Tel. Cartavio No. 3
- 39 Cia. Pesquera "La Gaviota" S. A.  
Km. 65 Panamericana Antigua  
Chancay  
Tel. 77
- 40 Cia. Pesquera "La Gaviota" S.A.  
Carretera Paracas  
11th Km.  
Pisco, Paracas

- 41 Cias. Unidas Vitarte, Victoria,  
Inca S. A.  
Avenida Argentina 5447  
Lima  
Tel. 32703

- 42 Cias. Unidas Vitarte, Victoria,  
Inca S. A.  
Avenida Francisco Pizarro 926  
Rimac  
Tel. 76570

- 43 Cias. Unidas Vitarte, Victoria,  
Inca S. A.  
Vitarte  
Tel. 32439

- 44 Envases Sanmarti S. A.  
Avenida Panamericana 4001  
Surquillo, Lima  
Tel. 56512

- 45 Fabrica de Pinturas Vencedor  
Avenida Venezuela 1901  
Lima  
Tel. 37088

- 46 International Machinery Co.  
(Peru) S.A.  
Avenida Venezuela 1901  
Lima  
Tel. 75200

- 47 Interquímica S.A. & Sudoba S.A.  
Apartado 1259  
Lima  
Tel. 3-0603

- 48 Minsur Partnership Limited  
Estacion Santa Lucia  
Via Arequipa

- 49 Sociedad Paramonga Ltda.  
Avenida Panamericana 4001  
Surquillo, Lima  
Tel. 57-902

- 50 Sociedad Paramonga Ltda.  
Avenida Venezuela 1891  
Lima  
Tel. 44-960

- 51 Sociedad Paramonga Ltda.  
Hacienda Paramonga  
Paramonga  
District of Pativilca  
Tel. Barranca 2131

- 52 Teroson-Peru  
Giron Arequipa 271  
Casilla 4847  
Lima  
Tel. 78128

## VENEZUELA

- 53 Plásticos y Derivados C.A.  
(PLAYDECA)  
Final De La Calle Bolivar  
Baruta, Estado Miranda  
Tel. 77.20.21

- 54 Plastiflex C.A.  
Calle Iribarren Borges  
Zona Industrial Sur  
Valencia, Edo. Carabobo  
Tel. 6989

## ▲ Sales Offices

## ARGENTINA

- 55 Darex S. A. I. y C.  
Primera Junta 550  
Quilmes F. C. N. G. R.  
Provincia de Buenos Aires  
Tel. 203-0880
- 56 Teroson Argentina S.R.L.  
San Martin 570  
Capital Federal  
Tel. 32-0945

## BOLIVIA

- 57 Estalsa, S.A.  
Casilla 852  
Calle Mercado #1099  
La Paz  
Tel. 25312
- 58 Grace y Cia. (Bolivia) S. A.  
Calle Mercado #1099  
Casilla 852  
La Paz  
Tel. 25099
- 59 International Machinery Co.  
(Bolivia) S. A.  
Socabaya 301  
Casilla 852  
La Paz  
Tel. 10972

## BRAZIL

- 60 Eriez Produtos Magnéticos e  
Metalúrgicos Ltda.  
Rua Direita, 250  
São Paulo  
Tel. 35-4632
- 61 Plastar S.A.  
Comercio e Industria de  
Materiais e Produtos Plásticos  
Rua Manoel Preto 1401  
Caixa Postal 12603  
São Paulo  
Tel. 61-1108
- 62 Produtos Químicos "Darex"  
Limitada  
Rua Direita, 250  
São Paulo  
Tel. 35-4632

- 63 Vulcan Material Plastico S. A.  
Avenida Rio Branco,  
156-20 Andar  
Caixa Postal 4400  
Rio de Janeiro, G. B.  
Tel. 42-6010

## CHILE

- 64 Grace y Cia. (Chile) S. A.  
Morande 341  
Casilla 14-D  
Santiago  
Tel. 1270/1271

**A SALES OFFICES (continued)**

**65** Hucke Hermanos S. A. C.  
Freire 321  
Casilla 53V  
Valparaiso  
Tel. 7501/7503

**COLOMBIA**

**66** Carboquímica, S.A./Industrias  
Permapint S.A.  
Calle 14 #15-53  
Bogotá  
Tel. 43 11 38

**67** Colprotex S.A.  
Calle 14 #15-53  
Bogotá  
Tel. 43 11 38

**68** Comestibles La Rosa S. A.  
Dosquebradas  
Apartado Aereo #44  
Pereira  
Tel. 2645

**69** Conservas California S. A.  
Apartado Aereo #1322  
Barranquilla  
Tel. 60210

**70** Ico Pinturas, S. A.  
Apartado Aereo #2301  
Barranquilla  
Tel. 2 02 75

**71** Productura de Papeles S. A.  
(PROPAL)  
Apartado Aereo #4412  
Cali  
Tel. 60125

**72** Química Proco S.A.  
Apartado Aereo #919  
Medellín  
Tel. 45 19 00

**73** Sintéticos S.A.  
Calle 31 #44-13  
Medellín  
Tel. 45 19 00

**COSTA RICA**

**74** Pozuelo S.A.  
Casilla 1750  
La Uruca, San Jose  
Tel. 4160

**ECUADOR**

**75** Grace y Cia. (Ecuador) S. A.  
Comercial  
Casilla 186  
Guayaquil  
Tel. 11240

**76** Grace y Cia (Ecuador) S.A.  
Comercial  
Avenida 10 de Agosto #255  
Casilla 281  
Quito  
Tel. 16290

**GUATEMALA**

**77** Alimentos y Conservas  
Ducal, S.A.  
Carretera del Atlántico, Km. 7.  
Guatemala City  
Tel. 88-05-87

**78** Alimentos Kern de  
Guatemala S.A.  
Km. 6½ Carretera de Atlántico  
880182  
P.O. Box 379  
Guatemala City  
Tel. 880-182

**MEXICO**

**79** Cueros Artificiales, S. A. de C. V.  
San Francisco 102  
Apartado 8903  
Mexico 1, D. F.  
Tel. 27-10-21

**80** DuBois Mexicana, S.A. de C.V.  
Paseo de la Reforma 510,2° Piso  
Mexico 6, D.F.  
Tel. 14-00-18

**81** Productos Darex, S. A. de C. V.  
Leibnitz 34,3 er. Piso  
Apartado M-9150  
Mexico City  
(Sales Agent for Central  
America's Dewey and Almy and  
CRYOVAC Product Lines)  
Tel. 33-24-40

**NEWFOUNDLAND (CANADA)**

**82** International Fishery &  
Fishmeal Ltd.  
P.O. Box 801  
Stephenville  
Tel. (709) 643-2151

**PERU**

**83** Grace y Cia. (Peru)  
Casilla 2488  
Lima  
Tel. 75000

**84** International Machinery Co.  
(Peru) S.A.  
Casilla 1843  
Lima  
Tel. 75200

**VENEZUELA**

**85** Productos Darex S.A.  
Edificio "Lex", 4° Piso  
Av. Libertador El Rosal  
Apartado 5136 Chacao  
Caracas  
Tel. 33-44-62

**86** Plásticos y Derivados C.A.  
(PLAYDECA)  
Cento Comercial Del Este  
Local 28-Salana Grande  
Caracas  
Tel. 71-91-16

**87** Plastiflex C.A.  
Ave. Principal de "Los Ruices"  
No. 5  
Caracas  
Tel. 34-55-21

**PRODUCTS**

**AGRICULTURE**

**Agricultural Emulsifiers**

A wide line of surfactants used as agricultural emulsifiers and detergent specialties by other industries.

- 26
- ▲ 72

**Agricultural Solvents**

Liquid mixtures of aromatic and aliphatic solvents. Used in insecticide formulation.

- 20
- ▲ 68

**Banana Paste**

Fungicide used to prevent deterioration of the banana hand at cut.

- 30
- ▲ 75 - 76

**Cattle Feed**

A well-balanced feed for cattle. Sold under the trademark "MOREA".

- 51
- ▲ 83

**Fish Meal**

Reduced from anchovy fish meal, containing 65-67% protein, below 10% fats, and 6-10% water. Available in 100-pound and 50-kilo PE-lined multiwall paper bags and in bulk.

- 17 - 18 - 36 - 39 - 40
- ▲ 64 - 82 - 83

**Pesticides**

A variety of pesticide compounds which include insecticides for the control and eradication of insects and herbicides for the elimination of weeds.

- 26
- ▲ 72 - 75 - 76

**FOOD****Baby Food**

Strained canned baby food.

- 31
- ▲ 77

**Biscuits**

A complete line of biscuits, including wafers, pretzels, sodas and saltines packed in tins. Also assorted fancy biscuits such as Petit Beurre, Custard Cream and Cafe Noir packed in tins or cartons. Biscuits are available in bulk or in small packages for the consumer trade.

- 19 - 22 - 28 - 37
- ▲ 64 - 65 - 68 - 74 - 83

**Candies**

A variety of kinds such as hard, filled, and panned candies; caramels; compressed tablets; soft and grained marshmallows, gum drops, and novelty items including bubble gum and lollipops.

- 19 - 22 - 28 - 37
- ▲ 64 - 65 - 68 - 74 - 83

**Canned Foods**

A variety of canned foods, including vegetables, fruit juices, and a line of tomato products.

- 22 - 23 - 31 - 32
- ▲ 68 - 69 - 77 - 78

**Cereals**

Baby cereals, pancake mixes and cake mixes.

- 22 - 31
- ▲ 68 - 77

**Chocolate Confectionery**

A wide selection of chocolate candies including filled and solid chocolate bars, bonbons, and chocolate-covered marshmallows.

- 19 - 22 - 37
- ▲ 64 - 65 - 68 - 83

**Cocoa Powder**

Sold in bulk to other manufacturers and through retail channels as well.

- 19 - 22
- ▲ 64 - 65 - 68 - 83

**Cookies**

A wide variety of crackers and biscuits, including both fancy and popular-priced assortments.

- 19 - 22 - 28 - 37
- ▲ 65 - 68 - 74 - 83

**Edible Oil**

Vegetable and animal oils used for food purposes containing not over 0.1% of free fatty acid.

- 15 - 16
- ▲ 64

**Flour, Wheat**

Milled wheat used in baking.

- 4 - 5
- ▲ 58 - 64

**Fruit Concentrates**

For beverages, pastries and juices. Concentrations 12° to 35° Brix. Available in 109 fluid ounce/6 cases (#10-cans) and 5-gallon cans. (Guava, pineapple, mango, papaya and tamarind.)

- 22 - 23 - 31 - 32
- ▲ 69 - 71 - 72 - 77 - 79

**Fruit Nectars**

Rich in pulp and exotic tropical flavors. Available in 6/48-ounce cases and 12/24-ounce cases. (Guava, pineapple, mango, tamarind, apricot, pear, apple and peach.)

- 22 - 23 - 31 - 32
- ▲ 69 - 70 - 71 - 72 - 77 - 79

**Gin**

An aromatic, alcoholic liquor sold under agreement with Tanqueray Gordon & Co., London, using "Gordon's" as a trademark.

- 51
- ▲ 83

**Jams and Marmalades**

Complete line of spreads packed in glass jars.

- 22
- ▲ 68

**Margarine**

A blend of refined, edible oils churned to the consistency of a spread.

- 15 - 16
- ▲ 64

**Meat Products**

A wide variety of canned and preserved meats such as sausages, frankfurters, deviled ham, bologna, mortadella, etc.

**Canned**

- 23 - 31
- ▲ 69 - 77

**Preserved**

- 31
- ▲ 77

**Molasses**

Blackstrap molasses, the syrupy liquid which is left after all the sucrose has been removed from sugar-cane juice by concentration, crystallization and separation of the sugar crystals. Used in food, feed and in the production of ethyl alcohol. Available in bulk.

- 38
- ▲ 83

**Pudding Powders**

Standard chocolate and vanilla puddings, as well as fruit dessert gelatins.

- 22
- ▲ 68 - 83

**Rum**

An alcoholic liquor distilled from fermented molasses and sold under the trademark "Ron Cartavio".

- 38
- ▲ 83

**Sauces and Dressings**

Mayonnaise, mustard, vinegar and other table sauces packed in glass jars.

- 22
- ▲ 68

**Shortening**

An edible fat used for cooking.

- 15 - 16
- ▲ 64

**Sugar, Raw**

Hard, dry crystals which are odorless and soluble in water. Used as sweetening in the manufacture of food products. Available in bulk, and in jute or multiwall paper bags.

- 38 - 51
- ▲ 83

**Sugar, Refined**

Processed sugar-cane used particularly in the manufacture of food products as a sweetener. Available in cotton or multiwall paper bags.

- 15 - 38 - 51
- ▲ 64 - 83

**Tomato Products**

Includes catsup, juice, paste and sauce. Available in cases for retail sale.

- 22 - 23 - 31 - 32
- ▲ 69 - 77 - 78

**Vodka**

A distilled liquor sold under agreement with Heublein, Inc., Connecticut, under the "Smirnoff" trademark.

- 51
- ▲ 83

**MINING & METAL PRODUCTS**

**Copper**

A yellowish-red ductile, very malleable and very good electrical conductor used in the metal and electrical industries.

- 48
- ▲ 83

**Cutting Bits**

Bits containing 50% cobalt for machine tool applications. Available in plastic boxes, six units each.

- 10
- ▲ 60

**Dental Alloys**

Cobalt-based alloys for dental prosthesis. Packed in 0.5-kilo plastic boxes.

- 10
- ▲ 55 - 58 - 60 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Grinding Aids**

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack-set tendencies in portland and hydraulic cements.

- ▲ 55 - 58 - 64 - 72 - 75 - 76 - 83 - 85

**Hard Facing Materials**

Cobalt special alloy welding rods for hard facing, heat-resistant or abrasion-resistant overlays.

- 10
- ▲ 60

**Magnetic Materials**

Several permanent magnetic alloys as well as magnetic equipment for separation and other industrial applications. Available in a variety of sizes and shapes packed in wooden boxes.

- 10
- ▲ 60

**Resistance Wire**

Nickel-chrome alloy wire for electrical resistance applications. Available on spools.

- 10
- ▲ 60

**Tin**

Silver-white ductile metal used in the metal industry.

- 6 - 7 - 8 - 48
- ▲ 57 - 58 - 83

**Tungsten**

A hard, brittle, gray metal also known as wolfram. Used in high-speed tools, electric lamps, dental equipment and penpoints.

- 7 - 8
- ▲ 58

**PAPER****Board, Paper**

Several kinds of paper board marketed in rolls and reams, in weights ranging from 250 to 450 grams per square meter. The duplex white board is designed for printing, while the duplex-type board finds use in food containers, etc. Gray and straw boards are sold in weights from 350 to 550 grams per square meter in rolls or reams.

- 25 - 51
- ▲ 71 - 83

**Bond and Manifold Papers**

Primarily white writing paper; also available in colors. Sold in rolls and reams, in weights from 30 to 120 grams per square meter.

- 25 - 51
- ▲ 71 - 75 - 76 - 83

**Bristol Board**

Two grades of Bristol-type papers (standard and extra), are available in white and in colors, with one or both sides supercalendered. Sold in rolls or reams in weights from 110 to 250 grams per square meter.

- 51
- ▲ 83

**Corrugated Cartons**

A large variety of boxes in different weights and sizes, made of corrugated board with two-color printing.

Outside liner is available in white or several colors.

- 29 - 50
- ▲ 75 - 76 - 83

**Crossbottom Bags**

Square bottom kraft grocery bags.

- 50
- ▲ 83

**Folding Boxes**

Boxes made of folding-type paperboards in a large variety of sizes, shapes and weights. Wax coatings and offset and lithographic printing are available.

- 44 - 49
- ▲ 83

**Grocery Kraft Bags**

Square bottom and automatic opening grocery bags, covering all the usual sizes and manufactured with kraft paper. Multicolor printing is available.

- 50
- ▲ 83

**Kraft Paper**

Wrapping, grocery bag and multiwall bag varieties of kraft papers, ranging in weights from 40 grams per square meter to 180 grams per square meter. Available "Clupak"-processed and polyethylene coated, in rolls and reams, both trimmed to specifications.

- 25 - 50 - 51
- ▲ 71 - 75 - 76 - 83

**Liners and Corrugating Medium**

Outside and inside liners and corrugating medium are available in rolls with weights from 160 to 350 grams per square meter for liners and 160 grams per square meter for corrugating medium.

- 51
- ▲ 83

**Multiwall Paper Bags**

Straight kraft or "Clupak"-processed multiwall bags for extensibility. Pasted or sewn bottoms, open mouth and valve-type closing, with optional polyethylene coating. Printing (maximum two colors) and sizes to suit customer requirements.

- 50 - 51
- ▲ 83

**Sulfite Paper**

An extensive variety of wrapping papers, in yellow, blue, green, pink and white. One side is smooth-finished and suitable for printing. Available in rolls and reams, in weights from 28 to 90 grams per square meter.

- 25 - 51
- ▲ 71 - 83

**Tape and Specialty Backings**

Latex saturated paper backings for pressure sensitive tapes, waterproof sandpaper, release liners, etc. Available with barrier coats, bonding coats, etc.

- ▲ 81 - 85

**Tissue Papers**

Tissue papers in handkerchief, napkin and bathroom grades in white, yellow, light blue and pink. Marketed in unconverted form.

- 25 - 44 - 49 - 51
- ▲ 70 - 81

**Vinyl Coated Paper**

A number of paper products used for wallpaper and shoe manufacturing.

- 13 - 27 - 33 - 54
- ▲ 63 - 73 - 79 - 87

**CHEMICALS AND OTHER PRODUCTS**

**Accelerating and Retarding Admixtures**

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Acetate Esters**

Butyl, amyl and ethyl acetates used as solvents for lacquers, thinners and artificial leather.

- 38
- ▲ 83

**Acetic Acid**

Used as an acid, solvent, and reagent in the production of rubber, plastics, pharmaceuticals, dyes, insecticides and in the manufacture of acetate esters.

- 38
- ▲ 83

**Adhesive Emulsions**

Polyvinyl acetate homopolymer emulsions for adhesives, surface coatings, primer sealers, textile and leather finishes.

- 15 - 16 - 26 - 29
- ▲ 64 - 73 - 75 - 76 - 85

**Adhesives**

Rubber and neoprene based adhesives used for plastics, paper, metal and some types of wood.

- 2 - 52
- ▲ 56 - 83

**Adhesives and Bonding Agents**

Resin, latex and polysulfide compounds for masonry patching and resurfacing for plaster bonding and surface bonding of concrete, toppings and aggregates.

- 2 - 26 - 45
- ▲ 55 - 56 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Air Entraining Additives**

Saponified tall oil, lignin and low alkali chemicals which produce controlled air entrainment characteristics in portland cement.

- 1
- ▲ 55 - 58 - 64 - 72 - 75 - 76 - 83 - 85

**Air Entraining Admixtures - DAREX AEA**

Air entraining agent used in concrete for roads, dams and silos.

- 1
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Alkyd Resins**

A series of heat resistant resins which retain their initial appearance after long exposure to severe weather. Extensively utilized in the paint industry as protective and decorative coatings.

- 15 - 16 - 26 - 45
- ▲ 64 - 72 - 83

**Architectural Paints**

A complete line of paints for application to wood, metal and masonry for all-weather protection.

- 24 - 26 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Aromatic Solvents**

Several liquid industrial solvents, including benzol 90 (90% benzene minimum), toluol (90% toluene minimum), and xylol (90% xylene minimum). Available in 55-gallon drums or in bulk.

- 20
- ▲ 66

**Automotive Lacquers**

A finish used to obtain a high gloss; available in a wide range of colors.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Balloons**

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packaged to specification.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Battery Dry Charge Process Equipment**

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Battery Separators, ARMORIB and DARAK**

Cellulose plates saturated with phenolic resins with plastic ribs for use as electrical insulators in batteries of automobiles, buses and tractors.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Battery Separators, Rubber Plate, DARACEL**

Microporous rubber separators for use as electrical insulators in automotive batteries.

- 12
- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Bleaching Powder**

Contains 33% active chlorine and is used for textile bleaching. Packed in 100-pound drums.

- 51
- ▲ 83

**Bottles**

Polyethylene blown molded bottles.

- 27
- ▲ 73

**Calcium Chloride**

Sold as 34% solution or as 80% solid. Used for road treatment and for refrigeration.

- 51
- ▲ 83

**Can Sealing Compounds**

Water dispersion of special rubbers for application to ends of cylindrical, rectangular and oval cans by nozzle, die or high-speed nozzle-type liners. Used for meat, fish, fruit, vegetable and general line tin-plate and aluminum containers. Available in 200-liter drums and 20-kilo pails.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Cap and Lid Gasketing Compounds**

A number of compounds used in metal caps to seal glass jars containing jams, marmalades, fruit, and vegetables. Includes water dispersions of rubber latex and PVC-based plastisol compounds applied by high speed automatic nozzle liners.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Casings, Food Products**

Used for liverwurst and bloodwurst, luncheon meat, ground beef and lard. Sold in linear meters. Characteristics similar to those of CRYOVAC bags and films.

- 12
- ▲ 62 - 85

**Catalysts**

Catalysts for the petroleum industry.

- 1
- ▲ 55

**Caulks and Sealants**

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 83 - 85

**Caustic Soda**

The most important commercial caustic. Prepared and sold as a 50% solution. Principle uses are in the paper, edible oil and soap-making industries.

- 51
- ▲ 83

**Chlorine**

Greenish yellow gas, readily liquifiable, soluble in water and alkalies. Sold as liquid in 150-pound or 2000-pound containers. Used for water purification and textile and pulp bleaching.

- 51
- ▲ 75 - 78 - 83

**Coal Tar Enamel**

Used to protect underground pipes particularly those carrying petroleum.

- 21
- ▲ 67

**Colorants**

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 83 - 85

**Compound Application and Drying Equipment**

Automatic and semi-automatic lining machines used to apply DAREX and DARASEAL compounds; tunnel dryers used to dry sealing compounds; and equipment for the application of side seam cements.

- 1 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 81 - 83 - 85

**Copolymer Resins**

Styrene-butadiene copolymer resins marketed in granular form; used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required.

- ▲ 62 - 85

**Coumarone-Indene Resins**

Yellowish solid hydrocarbon resins made from coal tar oils. Used in the rubber and paint industries.

- 20
- ▲ 66

**Creosotes**

Creosote-wood, a solution of coal tar oil, contains cresols and pyridic bases. Available in 55-gallon drums. Creosote-disinfectant, an emulsion of coal tar oils, contains a minimum of 25% phenols and cresols. Used as an agricultural and veterinary disinfectant.

- 20
- ▲ 66

**Crown Sealing Compounds**

PVC-based plastisol compound which is spun-lined or molded into metal beverage crowns as a replacement for cork liners.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 81 - 83 - 85

**Densifiers and Water Repellents**

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

- 28
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 83 - 85

**Detergents, Powdered and Liquid**

Industrial, housekeeping and maintenance cleaning products.

- 34
- ▲ 80

**Dishwashing and Kitchen Sanitation**

Machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of special products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

- 33
- ▲ 76

**Dispersing Agents**

Organic salt of carboxylated polyelectrolyte and polymerized organic salts of naphthalene sulfonic acid produce stable water dispersions of fine insoluble particles.

- 1
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 78 - 83 - 85

**Drawing Emulsions and Drawing Lubricants**

A number of water and alcohol dilutions of castor and white oil, used in sheet metal stamping operations to prevent fracture of lacquer coatings and to reduce wear on dies.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 81 - 83 - 85

**Electrical Appliances**

Radios, television sets and other home appliances.

- 46
- ▲ 84

**Enamels**

A complete line of interior and exterior enamels for industrial and domestic use. Applicable by roller, brush or spray and sold in a wide range of colors.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Esters, Dimerginates**

Esters of vegetable-oil-derived dimeric acids used for production of resins, polyesters and polyamides.

- 14
- ▲ 83

**Ethyl Alcohol**

A denatured solvent for industrial use. Available in bulk and smaller containers.

- 15 - 16
- ▲ 84

**Exterior/Interior Paints**

A wide range of paints used for decorative and protective purposes on metal, wood and masonry.

- 24 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Extruded Products**

A number of plastic products including garden hoses and PVC extrusions for the building trade.

- 11 - 27
- ▲ 61 - 73

**Fish Oil**

Extracted from anchovy, crude grade, below 3% free fatty acid, iodine number 180, Gardner Color 9. Water content below 1%. Available in bulk.

- 17 - 18 - 39 - 40
- ▲ 64 - 83

**Flexible Packaging Equipment**

Automatic and semi-automatic packaging machines that vacuumize, twist and seal CRYOVAC bags. Tanks and tunnels which utilize hot air or boiling water are available for shrinking CRYOVAC bags or film after the packaging operations.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 81 - 83 - 85

**Floor Materials**

Products to maintain, protect and repair masonry surfaces, including hardeners, toppings, coloring agents, sealers, anti-corrosion treatment, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

- 24
- ▲ 70 - 85

**Flooring Material**

Flooring material based on plasticized PVC. Available in different colors and sizes both in rolls and tiles.

- 13 - 27 - 33 - 53
- ▲ 63 - 73 - 70 - 86

**Foam Rubber Latex**

Sold in form of molded products such as pillows, mattresses, seats, and as thin foam film, with or without textile backing. Available in a variety of sizes and types.

- 13
- ▲ 63

**Formaldehyde**

A clear, colorless, aqueous solution 37% formaldehyde by weight. Used in the manufacture of phenolic, melamine and urea resins; in plastics, dyes, leather and paper. Available in drums and bulk.

- 15 - 16 - 26 - 45
- ▲ 64 - 67 - 83

**Gas Absorbents**

Soda lime with indicator, used as carbon dioxide absorbent in anesthesia and basic metabolism determinations. Also used as acid gas absorbent in submarines and certain diving equipment. Packaged in 55-gallon drums, in 5-gallon pails and in one-kilo cans.

- 1
- ▲ 55 - 58 - 62 - 64 - 75 - 76 - 81 - 83 - 85

**Hydrochloric Acid**

Clear, colorless or slightly yellow liquid with a pungent odor, soluble in water, alcohol and ether. Technical grade, 32%; used in the metal-working, textile and chemical industries.

- 51
- ▲ 63

**Industrial Adhesives**

A number of adhesive compounds useful for general purposes and special applications. Includes compounds based on polyvinyl acetate, casein, urea-formaldehyde and phenol formaldehyde. Also rubber adhesives for automotive and industrial uses.

- 2 - 13 - 15 - 16 - 25
- ▲ 55 - 56 - 58 - 62 - 63 - 64 - 72 - 75
- 76 - 83 - 85

**Industrial Belts**

Laminated PVC-impregnated cloth for use on power transmission products such as conveyors and power belts.

- 27
- ▲ 73

**Industrial Salt**

Prepared from underground brine deposits and sold as the technical grade material. Main users are the chemical industries and textile and soap manufacturers.

- 51
- ▲ 83

**Knitted Fibers, Synthetic**

Warp knitted materials from acetate and nylon filament thread used for bonding and lining woolen and cotton fabrics. Used for the manufacture of such apparel items as underwear and sleepwear.

- 41 - 42 - 43
- ▲ 83

**Lacquer Fillers**

For application in wood finishing. Available in quart and gallon cans.

- 24
- ▲ 70

**Laminates, Industrial and Decorative**

Laminates consist of several phenolic-impregnated paper layers with melamine resin. Principal uses include desk tops, wall coverings and assorted decorator applications. A new related product line consists of phenolic laminates for use in industrial panel boards and electrical circuit boards.

- 27 - 54
- ▲ 73 - 85 - 87

**Latex Paints**

A 100% latex paint excellent for interior walls, ceilings or woodwork. Available in quart, gallon, 5- and 55-gallon drums. For large construction operations, latex paints are available in one- or 55-gallon containers with minimum orders of 100 gallons.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 72 - 75 - 76 - 83

**Leather Oils**

A number of sulfonated oils for leather tanning.

- 26
- ▲ 72

**Lithographic Inks**

A wide range of inks for the printing industry.

- 30
- ▲ 75 - 76

**Maintenance Paints**

Paints, lacquers and primers for application to metal, wood and masonry for protective and decorative purposes.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Marine Paints**

Anti-fouling paints for application to metal and wooden hulls below the water line. Provides protection against vegetation and marine encrustations. Extra strong weather-resistant paints for decks and the interior and exterior of the superstructure. All marine paints available in quart, gallon, 5- and 55-gallon drums for brush application.

- 24 - 45
- ▲ 64 - 70 - 73 - 83

**Melamine Formaldehyde Resins**

Synthetic resins of the thermosetting type, made from melamine and formaldehyde. Used for molding compounds and adhesives, particularly in the paper and textile industries.

- 26 - 54
- ▲ 72

**Metal Galvanide Primer**

Excellent adhesion on all galvanized surfaces. Serves as a base coat and is available in quart, gallon, 5- and 55-gallon drums.

- 24 - 30 - 45
- ▲ 58 - 64 - 70 - 72 - 75 - 76 - 83 - 85

**Metal Primers**

Red lead primers—suitable for coating bridges, pipelines, and iron and steel structures.

Red oxide primers—for interior and exterior metal surfaces; especially good for weather resistance.

Zinc chromate primers—protect all metal surfaces.

All primers available in quart, gallon, 5- and 55-gallon drums.

- 24 - 30 - 45
- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Naphthalene**

A coal tar derivative used in the manufacture of other petrochemical derivatives, particularly phthalic anhydride.

- 29
- ▲ 66

**Pail and Drum Sealing Compounds**

Activated rubber base compounds for use on covers, bottoms and double seams of pails and drums. Available in 200-liter drums, 60- and 85-kilo drums and 20-kilo pails.

- 1 - 12 - 35
- ▲ 55 - 58 - 63 - 65 - 72 - 75 - 76 - 81 - 83 - 85

**Paint Emulsions**

Vinyl acetate copolymer for emulsions, paints, paper coatings, acoustical tile coating and specialty industrial finishes.

- 15 - 16 - 26 - 45
- ▲ 64 - 73 - 83

**Paints**

Paints, lacquers and varnishes used specifically for decorative and protective purposes on a variety of products including automobiles, cabinets, woodwork and blackboards.

- 24 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

**Paraformaldehyde**

A white solid, insoluble in alcohol and ether, but soluble in a strong alkali solution. Used in the production of resins and as a disinfectant, fumigant and fungicide.

- 15 - 16 - 26
- ▲ 64 - 72

**Phenol Formaldehyde Molding Powders**

A group of synthetic molding powders important in the manufacture of buttons, bottle caps, radio cabinets, pot handles and washing machine agitators.

- 26 - 54
- ▲ 72 - 87

**Phenol Formaldehyde Resins**

A number of synthetic resins used in the manufacture of rubber tires, contact adhesives and paints.

- 26
- ▲ 72

**Phthalic Anhydride**

Solid, organic dibasic anhydride available in white flake form. Used as raw material for production of alkyd resins, plasticizers and organic intermediates.

- 14 - 20
- ▲ 63 - 65 - 66

**Pitch**

Solid, brilliant black residue of coal tar distillation. Used in road pavement; as raw material for making enamels to protect buried pipelines, to impregnate paperboard, tiles and fabrics; for construction water-proofing, etc. Available in 250-kilo drums or in bulk.

- 20
- ▲ 64 - 65 - 66

**Plasticizer**

Triacetin plasticizer used in the production of plastics.

- ▲ 56

**Plasticizers, Esters, Aliphatic**

Liquid esters of aliphatic alcohols and phthalic anhydride. Used to plasticize PVC and other resins. Available in 200-kilo drums.

- 20 - 54
- ▲ 66 - 85 - 87

**Plasticizers, Phthalates**

A variety of primary phthalate plasticizers are available. Dibutyl and di-isobutyl phthalates are used in adhesives, lacquers, emulsions, heat-sealable paper coatings and in cellophane. Butyl octyl phthalate is a fast fluxing and high solvating vinyl chloride plasticizer. Di-iso-decyl, di-iso-octyl, di-octyl and iso-octyl-iso-decyl phthalates are general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. Available in 200-kilo drums. (Only butyl octyl, dibutyl and di-iso-octyl phthalates are sold in Brazil.)

- 14 - 15 - 16 - 20
- ▲ 63 - 64 - 66

**Plastic Trays**

High impact polystyrene used as an inner container for CRYOVAC "S" film-wrapped foodstuffs such as sliced cuts, cut-up poultry, sweets and pastry, sausages and cheese.

- 11
- ▲ 61 - 62 - 63 - 83 - 85

**Plastic Tubes, Collapsible**

Used for grooming, cleaning and home products; pastes for industrial applications such as adhesives.

- 11
- ▲ 62 - 63

**Polyamides**

Solid DARAMID—Polyamide based on dimeric acids used for production of varnishes and inks for printing on substrates which present difficulties of adhesion. Also used for production of hot melt adhesives specifically in the shoe industry.

Liquid DARAMID—Polyamide of various viscosities used as epoxy resin curing agents, in production of varnishes, adhesives and molded products.

- 12
- ▲ 62

**Polyester Resins**

Based on esters of dimeric acids for production of semi-rigid and rigid polyurethane foams. Also a number of polyester resins which are sold to the button industry, boat manufacturers, corrugated laminate manufacturers and tank manufacturers.

- 14 - 15 - 16 - 26
- ▲ 63 - 64 - 72

**Polyethylene Film**

Embossed and/or printed polyethylene film used as book bindings, table cloths and economy bedspreads.

- 27
- ▲ 73

**Polyurethane Foam**

Polyurethane and polyester foams are cast and sold either as slabs, cut pieces of finished mattresses, pillows and other products for the furniture and automotive industries. Also thin sheets are produced which are laminated to textiles.

- 13
- ▲ 63

**Polyvinyl Acetate Resin**

A synthetic resin used in latex water paints, and for adhesives, coatings, lacquers and inks.

- 15 - 16 - 26 - 36 - 45
- ▲ 64 - 72 - 83 - 85

**Polyvinyl Chloride Film, Supported**

A family of plastic products for use in upholstering furniture and automobile seats.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

**Polyvinyl Chloride Film, Unsupported**

A group of plastic products for bookbinding, wallets, women's handbags, oilcloth, shower curtains, rain-wear and clothing.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

**Polyvinyl Chloride Molded & Blown**

Polyvinyl chloride molded and extrusion blown products.

- 11
- ▲ 62 - 63

**Polyvinyl Chloride Pipe**

PVC plastic pipe and fittings for conventional pressure piping and industrial drainage systems.

- 11 - 47
- ▲ 61 - 63

**Polyvinyl Chloride Resin**

Suspension and emulsion homopolymers and copolymers used for molding, extrusion, calendaring and spread coatings.

- 51
- ▲ 83

**Polyvinyl Chloride Sheet, Supported**

A number of plastic products used for flooring, in buses, buildings and airplanes.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

**Polyvinyl Chloride Sheet, Unsupported**

Used in hospitals and for baby cribs.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

**Portland Cement**

Very fine gray powder composed of compounds of lime, alumina, silica and iron oxide. Hardens slowly when mixed into a paste with water and does not require air. Used in all types of construction. Available in multiwall bags.

- 9
- ▲ 56 - 59

**Pouches**

Square CRYOVAC bags, thicker than the standard bag and vacuumized and sealed by a pouch machine. Type 111 pouches are used mainly for small packages of cheese wedges, frankfurters and sausages.

- 12
- ▲ 62 - 64 - 81 - 85

**Retarding Additives**

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- ▲ 55 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Sealers**

A complete line of concrete, wood-floor, and wall sealers which act both as preservatives and as preparations for further finishes.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83 - 85

**Seam Dopes**

Solvent or water-based liquids used to fix leaking cans. Applied to the flange of cans by brush, spray or felt pad. Available in 200-liter drums.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Shrinking Bags**

Made by extrusion of polyvinylidene chloride copolymer (saran). The resulting tubing is cut crosswise and sealed by radio frequency impulse and in automatic bag machine, CRYOVAC bags are heat shrinkable and impermeable to moisture and oxygen. Normally used for vacuum packing of frozen poultry; fresh, cured and smoked meats; and cheese.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 81 - 83 - 85

**Shrinking Films**

Polyethylene and polypropylene film for the packaging of toys, phonograph albums, meals, cheeses and bakery items.

- 12
- ▲ 62 - 85

Polyvinylidene chloride film for the packaging of toys, phonograph albums, meats, cheeses and bakery items.

- 12
- ▲ 62

**Side Seam Cements**

Thermoplastic resin used as replacement of solder in side seams of cans. Applied manually or by automatic applicators at can body makers. Available in 100-kilo drums and 50- and 30-kilo fiber drums.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Soldering Fluxes, Liquid and Crystal**

Water and alcohol solutions of zinc chloride and double salts of zinc and ammonium chloride, as well as crystals used in automatic can lines for soldering operations. Available in 100-kilo drums.

**Liquid**

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 81 - 83 - 85

**Crystal**

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Specialty Products**

Architectural, construction and maintenance products related to masonry work, including curing, form coating and cleaning compounds; hardeners and bonding agents; construction equipment and accessories.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Stearic Acid**

Colorless, odorless, wax-like material used in lubricants, soaps, candles and pharmaceuticals.

- 15 - 16
- ▲ 64

**Technical Coatings**

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83 - 85

**Textile Auxiliaries**

Number of chemical compounds useful in slashing and finishing textiles.

- 26 - 27
- ▲ 71 - 72 - 73

**Textile Finishing Equipment**

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

- ▲ 55 - 62 - 64 - 73 - 75 - 76 - 81 - 83 - 85

**Textile Printing Blankets**

Roller Printing Blankets: wide, fabric-and-rubber-laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide, fabric-and-rubber-laminated, continuous, smooth-surfaced belts.

Lapping Blankets: wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high-roll pressure exerted during printing operations.

All blankets available in widths and lengths according to customer specification.

- ▲ 55 - 62 - 64 - 73 - 75 - 76 - 81 - 83 - 85

**Textiles**

Cotton textiles such as poplins, drills, print goods, flannels, sheetings and denims. Finished products go through successive processes such as bleaching, mercerizing, dyeing, roller and screen printing.

- 41 - 42 - 43
- ▲ 83

**Thermoplastic Coatings**

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

- ▲ 55 - 62 - 64 - 72 - 81 - 83 - 85

**Thinner**

Liquid mixture of hydrocarbons and oxygenated solvents. Used as a diluent for paints, lacquers and other finishes. Available in 55-gallon drums, or in bulk.

- 20 - 24
- ▲ 66 - 70

**Toys**

This line consists mostly of dolls made by rotational casting of PVC plastisol resins.

- 27
- ▲ 73

**Underbody Coatings**

Protective underbody coatings based on rubber, bitumen and plastisol for car, bus and truck manufacturers, vehicle dealers and service stations.

- 7 - 8 - 11 - 16 - 25 - 30
- ▲ 48 - 49 - 51 - 57 - 63 - 74 - 82

**Urea Formaldehyde**

A thermosetting, insoluble, infusible resin made through the combination of urea and formaldehyde. Used in buttons, baking enamels, tableware and textile finishes.

- 26
- ▲ 72

**Varnishes**

A complete line of finishes for interior and exterior

use on masonry, metal and wood for protection against water, weather, oil and grease.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 73 - 83

**Wash Primer**

An excellent medium to increase the adhesion properties of the finish coats. Applied by spray and available in one-gallon containers only.

- 24
- ▲ 70

**Waterproof Canvas**

Waterproof fabric for use on jeeps and as tent material.

- 27
- ▲ 73

**Waterproofing and Roofing Materials**

A variety of moisture control products for metal, wood and masonry.

- 24
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

**Water Reducing Admixtures**

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- ▲ 58 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Wetting Agents, CANSURFASS**

Additive compounds to improve the performance of lining compounds under adverse lining conditions. Available in 2-kilo or one-gallon cans.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

**Wood Lacquers**

Finishes used for their decorative and protective properties. Tinting, shading and transparent lacquers available in gallon and quart cans.

- 24 - 26 - 30 - 41
- ▲ 64 - 70 - 75 - 76 - 83

*Manufactures, processes and markets a broad line of food products including cocoa, chocolate and confectionery products, desserts, dairy products, pickles and relishes, snack foods, soft drinks, seafoods, canned and frozen foods, jams and preserves, salad dressings, syrups and beer.*

**Headquarters Office**

7 Hanover Square  
New York, New York 10005  
(212) 344-1200

**CHOCOLATE AND CONFECTIONERY DIVISION**● **Plants****BELGIUM**

- 1 Leaf Belgium N.V.  
Industriepark, Rijksweg  
Bornem  
Tel. (03) 77-17-71

**CANADA**

- 2 Leaf Confections Limited  
432 Comstock Road  
Scarborough, Ontario  
(416) 751-0740

**FRANCE**

- 3 C. J. Van Houten & Zoon  
S.A.R.L.  
11, rue Lazare Hoche  
Boulogne sur Seine  
Tel. 605. 71. 40

**GERMANY**

- 4 C. J. Van Houten & Zoon A. G.  
Hubertusstrasse 189, Krefeld  
Tel. 28107

**IRELAND**

- 5 Leaf Limited  
Kilcock, County Kildare  
Tel. 3367
- 6 Liam Devlin and Sons Limited  
49/50 Cork Street, Dublin  
Tel. 53812

- 7 Urney Chocolates, Limited  
Tallaght, County Dublin  
Tel. 592766

**JAPAN**

- 8 Kabaya-Leaf, Inc.  
198 Shimoishii  
Okayama City  
(Okayama Prefecture)  
Tel. 24-4311

**NETHERLANDS**

- 9 N. V. Cacaofabriek "De Zaan"  
P. O. Box 2, Koog Zandijk  
Tel. 02980-80770
- 10 N. V. Drankenindustrie Raak  
Hoogstraat 47, Koog aan de Zaan  
Tel. 02980-83258
- 11 Koninklijke Fabrieken  
C. J. Van Houten & Zoon N. V.  
Prinses Irenelaan 7, Weesp  
Tel. 02940-7220
- 12 Koninklijke Fabrieken  
C. J. Van Houten & Zoon N. V.  
Oude Haven 24a, Medemblik  
Tel. 02274-541

- 13 Verstuivingsbedrijf "De Zaan  
Spray" N. V.  
(Non-Confectionery Contract  
Spray-Drying)  
Energieweg 9, Nunspeet  
Tel. 03412-2974

**SINGAPORE**

- 14 Sheng Huo Enterprise  
(Malaysia) Limited  
481 Tanglin Halt Road  
Tel. 644. 201

**UNITED STATES**

- 15 Ambrosia Chocolate Co. Division  
528 West Highland Avenue  
Milwaukee, Wisconsin 53203  
(414) 271-2089
- 16 Ambrosia Chocolate Co. Division  
3746 North Davidson  
Charlotte, North Carolina 28206  
(704) 375-3731
- 17 Hooton Chocolate Company  
355 Fifth Street  
Newark, New Jersey 07107  
(201) 485-5385
- 18 Leaf Brands Division  
1155 North Cicero Avenue  
Chicago, Illinois 60651  
(312) 378-6000

▲ **Sales Offices****BELGIUM**

- 19 N. V. Handelsmaatschappij  
HOMAC  
Helmstraat 109  
Bergerhout-Antwerp  
Tel. 03-35-50-16
- 20 Leaf Belgium N.V.  
Industriepark Rijksweg  
Bornem  
(03) 77-17-71

**A Sales Offices (continued)**

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- 21** Leaf Confections Limited  
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**FRANCE**

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11, rue Lazare Hoche  
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Tel. 605. 71. 40

**GERMANY**

- 23** Cacao De Zaan Import-  
gesellschaft m. b. H.  
P. O. Box 446  
Hohe Bleichen 18,  
2000 Hamburg 36  
Tel. 343056
- 24** C. J. Van Houten & Zoon A. G.  
Hubertustrasse 189, Krefeld  
Tel. 28107
- 25** Vermittlungsagentur der N. V.  
Cacaofabriek de Zaan G.m.b.H.  
P. O. Box 44  
Schuesselkorb 35, 2800 Bremen 1  
Tel. 321340

**IRELAND**

- 26** Leaf Limited  
Kilcock, County Kildare  
Tel. 3367
- 27** Liam Devlin and Sons Limited  
49/50 Cork Street, Dublin  
Tel. 53812
- 28** B. C. Murch & Co. Ltd.  
(See Urney Chocolates, Ltd.)
- 29** Urney Chocolates, Limited  
Tallaght, County Dublin  
Tel. 592768

**ITALY**

- 30** Van Houten (Italiana) S.R.L.  
Via Alessandro Volta 23, Como  
Tel. 32886

**JAPAN**

- 31** Kabaya-Leaf, Inc.  
198 Shimoiashii  
Okayama City  
(Okayama Prefecture)  
Tel. 24-4311
- 32** Price Mason & Co.  
(Van Houten Sales Agents)  
Hasegawa Building  
2, 5 - Chome Awajimachi  
Higashiku, Osaka  
Tel. 202-4886

**NETHERLANDS**

- 33** N. V. Cacaofabriek "De Zaan"  
22 Chulia Street  
P.O. Box 2 Koog Zandijk  
Tel. 02980-80770
- 34** N. V. Drankenindustrie Raak  
Hoogstrat 47, Koog aan de Zaan  
Tel. 02980-83528
- 35** Koninklijke Fabrieken  
C. J. Van Houten & Zoon N. V.  
Prinses Irenelaan 7, Weesp  
Tel. 02940-7220
- 36** Verstuivingsbedrijf "De Zaan  
Spray" N.V.  
(Non-Confectionery Contract  
Spray-Drying)  
Energieweg 9, Nunspeet  
Tel. 03412-2974

**SINGAPORE**

- 37** Van Houten (Malaysia) Ltd.  
22 Chulia Street  
Tel. 77108

**UNITED KINGDOM**

- 38** Van Houten Limited (Bulk  
Products Sales Office)  
Hill House, Hill Avenue  
Amersham, Bucks  
Tel. Amersham 5531/3
- 39** B. C. Murch & Co. Limited  
c/o Messrs. Armitage & Norton  
Chartered Accountants  
Salisbury House, Finsbury Circus  
London, E. C. 2  
Tel. National 8418
- 40** Grace Brothers, Limited  
Glen House, Stag Place  
London, S.W. 1  
Tel. Victoria 5511

**UNITED STATES**

- 41** Ambrosia Chocolate Co. Division  
3746 North Davidson  
Charlotte, North Carolina 28202  
(704) 375-3731
- 42** Ambrosia Chocolate Co. Division  
528 West Highland Avenue  
Milwaukee, Wisconsin 53203  
(414) BR 1-2069
- 43** De Zaan, Incorporated  
82 Wall Street  
New York, N. Y. 10005  
(212) HA 5-2856
- 44** Hooton Chocolate Company  
339-381 Fifth Street  
Newark, New Jersey 07107  
(201) 485-5385
- 45** Leaf Brands Division  
1155 North Cicero Avenue  
Chicago, Illinois 60651  
(312) 378-8000
- 46** C. J. Van Houten & Zoon, Inc.  
537 Greenwich Street  
New York, N.Y. 10013  
(212) WA 4-7101

**PRODUCTS**

**Chocolate Liquor (Cocoa Mass)**

Obtained by grinding roasted cocoa beans after they have been broken and the shell removed. It is used to make milk and sweet (dark) chocolate or to supply the chocolate flavoring to various kinds of foods. Available in molded form, packed in cartons and boxes, and in liquid form in heated tank trucks.

- 7 - 9 - 11 - 14 - 15 - 17
- ▲ 19 - 22 - 23 - 24 - 25 - 29 - 30 - 32 - 33 - 35
- 37 - 38 - 39 - 41 - 42 - 43 - 44 - 46

**Cocoa Butter**

Natural fat of cocoa beans, obtained by pressing chocolate liquor. It is sold in bulk for chocolate manufacture and packed as molded cakes or in liquid form in heated tank trucks.

- 3 - 4 - 9 - 11 - 14 - 15
- ▲ 22 - 23 - 24 - 25 - 28 - 30 - 32 - 33
- 35 - 37 - 38 - 41 - 42 - 44 - 46

**Cocoa Powder**

The pulverized and sifted residue resulting from pressing part of the cocoa butter from chocolate liquor. It is used as a chocolate flavoring material for chocolate drinks, ice cream, confectionery, cookies, prepared cake mixes, syrups, etc. Offered in various ranges of cocoa butter content from 8% to 35%. The most customary grades are 10%-12% (low-fat powder), 16%-18%, and 22%-24% (high fat powder or "breakfast cocoa"). Available in bulk packing or consumer size packages.

- 3 - 4 - 9 - 11 - 14 - 15
- ▲ 19 - 22 - 23 - 24 - 25 - 30 - 32 - 33 - 35
- 37 - 38 - 39 - 41 - 42 - 43 - 44 - 46

**Coatings (Three Types)**

Chocolate coating, or *couverture*, and confectioner's coating are used to enrobe such products as candy bars, boxed chocolates, cookies, cakes, etc. Chocolate coating is made from chocolate liquor and pure cocoa butter, while "confectioner's coating" uses cocoa powder and hardened vegetable fat. Both types are available in molded form or in liquid form in heated tank wagons. Ice cream novelty coatings are generally made with a vegetable fat having a lower melting point than cocoa butter. They can be made with either chocolate liquor or cocoa powder as the basic flavor ingredient. Available in several sizes of steel drums or in liquid form in heated tank wagons.

**Couverture & Confectioner's Coating**

- 7 - 11 - 14 - 15 - 16 - 17
- ▲ 19 - 22 - 24 - 29 - 30 - 35 - 37 - 38

**Ice Cream Novelty Coating**

- 6 - 15 - 16 - 17
- ▲ 29 - 41 - 42 - 44

**Chocolate Confectionery Products**

Plain and filled bars and tablets, bonbons, and other specialties. Available in consumer size packages and bulk (weigh-out).

- 7 - 11 - 12 - 14
- ▲ 19 - 22 - 24 - 29 - 30
- 32 - 35 - 37 - 39 - 46

**Non-Chocolate Confectionery Products**

Licorice products, paste products, boilings, chewing gum, expanded candies, cream filled sugar wafers, novelty confections and other sugar candy products, available in consumer packaging and bulk (weigh-out). In certain countries Van Houten or its sales agents act as distributors for the Van Melle line of sugar confectionery in proprietary or consumer packaging.

- 1 - 2 - 5 - 6 - 7 - 8 - 11
- 14 - 17 - 18
- ▲ 19 - 20 - 21 - 22 - 24 - 26 - 27 - 29
- 30 - 31 - 32 - 35 - 37 - 38 - 45 - 46

**Vermicelli**

Chocolate sprinkles and various flavors of sugar sprinkles in both consumer and bulk packaging.

- 9 - 11
- ▲ 19 - 22 - 23 - 24 - 30 - 33 - 35 - 37 - 43 - 46

**Cookie Drops**

Chocolate and non-chocolate miniature drops used in sweet biscuits or cookies, usually along with nut meats. Available in bulk packaging only.

- 11 - 15 - 17
- ▲ 19 - 22 - 24 - 30 - 32 - 35
- 37 - 38 - 41 - 42 - 44 - 46

**Milk Chocolate Crumb**

Composed of milk, chocolate liquor and sugar and used to make milk chocolate. Available in bulk packaging only.

- 7
- ▲ 29

**Puddings and Desserts**

Pudding powders and instant desserts, sold as proprietary packaged products for consumer use.

- 3 - 4
- ▲ 22 - 24

**Coffee and Tea**

Available in consumer or proprietary packaging.

- ▲ 35

**Nuts and Soft Drinks**

Salted and flavored peanuts, vacuum and non-vacuum packed; carbonated and non-carbonated soft drinks and syrups in consumer size bottles; non-carbonated soft drinks in fountain or self-service dispensers.

**Nuts and Bottled Soft Drinks**

- 10
- ▲ 34

**Non-Carbonated Soft Drinks in Dispensers**

- 3 - 10
- ▲ 22 - 35

EUROPEAN CONSUMER PRODUCTS DIVISION

● Plants

BELGIUM

48 Eta. Edouard Materne S.A.  
22 Rue du Progres  
Jambes  
Tel. (081) 31523

DENMARK

49 Hellerup Fløde Is, A/S  
Fabrik Fruedal, Tureby

50 Hellerup Fløde Is, A/S  
Onsgaardvej 5, Hellerup  
Tel. Hellerup 8800

FRANCE

51 Compagnie des Restaurants  
Jacques Borel S.A.  
58 Avenue de Saxe  
Paris 15

52 S.A. Confitureries Materne  
Boué (Aisne)  
Tel. (1023) 4

IRELAND

53 Hughes Brothers Limited  
Hazelbrook Dairy  
Rathfarnham, Dublin 14  
Tel. 983033

ITALY

54 Tanara S.p.A.  
Quartiere Buffolara  
Marchi Parma  
Tel. 68131

SPAIN

55 Mantequeras Arias S.A.  
Arriondas  
Tel. Arriondas 37

56 Mantequeras Arias S.A.  
Canero  
Tel. Casiellas 13

57 Mantequeras Arias S.A.  
Carretera a Toro  
Medina de Rioseco  
Tel. Medina de Rioseco 53

58 Mantequeras Arias S.A.  
Jeronimo Ibran 2  
Uria 36  
Apartado 11  
Oviedo  
Tel. Oviedo 217-195

UNITED KINGDOM

59 Marela Limited  
Saunders Ness Road  
London E. 14  
Tel. East 6021 PABX

▲ Sales Offices

DENMARK

60 Hellerup Fløde Is, A/S  
Halakovvej 46, Korsør  
Tel. Korsør 346

61 Hellerup Fløde Is, A/S  
Helligkorsvej 4, Roskilde  
Tel. Roskilde 2672

62 Hellerup Fløde Is, A/S  
Slotsgade 50, Nykøbing Falster  
Tel. (03) 85 05 55

63 Hellerup Fløde Is, A/S  
Strandvejen 75 Slagelse  
Tel. (03) 524233

64 Hellerup Fløde Is, A/S  
Vordingborgvej 66, Næstved  
Tel. (03) 72 07 70

IRELAND

65 Hughes Brothers Limited  
Hazelbrook Dairy  
Rathfarnham, Dublin 14  
Tel. 983033

ITALY

66 Tanara S.p.A.  
Via Pistoiese 213  
Localita Petriolo  
Firenze  
Tel. 370843

67 Tanara S.p.A.  
Quartiere Buffolara  
Marchi Parma  
Tel. 68131

68 Tanara S.p.A.  
Via Orobia 11  
Milano  
Tel. 537968

69 Tanara S.p.A.  
Strada Pontevigodarzere 117  
Padova  
Tel. 27881

70 Tanara S.p.A.  
Via Casalberto N E 62  
Roma  
Tel. 4390600

SPAIN

71 Mantequeras Arias S.A.  
Garcia Morato 41  
Alicante  
Tel. Alicante 215-742

72 Mantequeras Arias S.A.  
Plaza de Cataluna 16  
Fontanella 4  
Barcelona  
Tel. Barcelona 222-1646

73 Mantequeras Arias S.A.  
Gordoniz 28  
Bilbao  
Tel. Bilbao 329-305

74 Mantequeras Arias S.A.  
Cedron Del Valle 33  
Lugo  
Tel. Lugo 212-941

75 Mantequeras Arias S.A.  
Conde Miranda 4  
Mayor 4  
Madrid  
Tel. Madrid 248-7315

76 Mantequeras Arias S.A.  
Fernando De Lesepe 4  
Malaga  
Tel. Malaga 213-263

77 Mantequeras Arias S.A.  
Plaza Apostles 5  
Murcia  
Tel. Murcia 215-864

78 Mantequeras Arias S.A.  
Jeronimo Ibran 2  
Uria 36  
Apartado 11  
Oviedo  
Tel. Oviedo 217-195

79 Mantequeras Arias S.A.  
Balanguera 20  
Palma de Mallorca  
Tel. Palma 232-199

80 Mantequeras Arias S.A.  
Murillo 2  
Sierpes 8  
Sevilla  
Tel. Sevilla 221-800

81 Mantequeras Arias S.A.  
Cirilo Amoros 10  
Maria Cristina 9  
Valencia  
Tel. Valencia 212-729

82 Mantequeras Arias S.A.  
San Vincente de Paul  
Zaragoza  
Tel. Zaragoza 351-526

UNITED KINGDOM

83 Marela Limited  
Saunders Ness Road  
London E. 14  
Tel. East 6021 PABX

**PRODUCTS**

**Dairy Products**

Milk, butter, eggs, cheese, cream, ice cream and related products. Available both in consumer and bulk packaging.

- 49 - 50 - 53 - 54 - 55 - 56 - 57 - 58
- ▲ 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67
- 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75
- 76 - 77 - 78 - 79 - 80 - 81 - 82

**Herrings and Horseradish Sauces**

Filleted Scotch herrings combined with onions or chopped gherkins. Horseradish sauce, horseradish and beetroot sauce. Available in consumer and bulk packaging.

- 59
- ▲ 83

**Jams and Preserves**

A complete line of jams and preserved fruits. Marmalades, confiture, preserved vegetables and stewed apples are also available in Belgium. Sold through retail outlets in consumer packaging.

- 49 - 52
- ▲ sold through a network of retail distributors.

**Olives and Cocktail Varieties**

Cocktail olives, olives, cherries and capers in proprietary and bulk packaging.

- 59
- ▲ 83

**Pickle Products**

Includes onions, piccalilli, gherkins and walnuts, sold in consumer and bulk packaging.

- 59
- ▲ 83

**Restaurant and Food Services**

Fast service, limited menu restaurant, in-plant feeding and meal voucher restaurant service.

- 51
- ▲ Sold through a network of restaurants, plants and meal vouchers.

**Salad Products and Edible Oils**

Includes salad cream, beetroot and onion salad, and salad oils; corn oil and cooking oil are also available in proprietary and bulk packaging.

- 59
- ▲ 83

**NALLEY'S FINE FOODS DIVISION**

● Plants

UNITED STATES

- 84 CALIFORNIA, Los Angeles (90058)  
5001 South Soto Street  
(213) 582-5121
- 85 CALIFORNIA, San Leandro (94577)  
1314 Marina Boulevard  
(415) 357-7600
- 86 MONTANA, Billings (59101)  
451 Charles Street  
(406) 252-6679
- 87 WASHINGTON, Tacoma (98411)  
3303 South 35th Street  
(206) 383-1621
- 88 WASHINGTON, Spokane (99220)  
4120 East Broadway  
(509) 535-1761

CANADA

- 89 BRITISH COLUMBIA, Vancouver  
1330 East 66th Street  
(604) 325-3221
- 90 BRITISH COLUMBIA, Vancouver (Annis Island)  
810 Cliveden Avenue  
(604) 521-5536

▲ Sales Offices

UNITED STATES

- 91 CALIFORNIA, Los Angeles (90058)  
5001 South Soto Street  
(213) 582-5121
- 92 CALIFORNIA, San Leandro (94577)  
1314 Marina Boulevard  
(415) 357-7600

- 93 MONTANA, Billings (59101)  
451 Charles Street  
(406) 252-6679
  - 94 OREGON, Portland (97214)  
310 South East 12th Avenue  
(503) 234-9609
  - 95 WASHINGTON, Seattle (98134)  
3201 Fourth Avenue  
(206) 622-6484
  - 96 WASHINGTON, Spokane (99220)  
4120 East Broadway  
(509) 535-1761
  - 97 WASHINGTON, Tacoma (98411)  
3303 South 35th Street  
(206) 383-1621
- CANADA
- 98 BRITISH COLUMBIA, Vancouver  
1330 East 66th Street  
(604) 325-3221

**PRODUCTS**

**Canned Meats and Convenience Foods**

Includes chili con carne, beef stew, corned beef hash, chicken and beef ravioli, lasagne and canned salads. Available through retail sales in consumer packaging as well as through institutional and private label sales.

- 85 - 87 - 89
- ▲ 91 - 92 - 94 - 96 - 98

**Chip Dips**

Refrigerated dressings and chip dips of various flavors such as french onion, smoked salmon, dill pickle clam, bleu cheese, garlic and pepperoni. Sold through retail outlets and in institutional and private label sales.

- 87 - 89
- ▲ 91 - 93 - 94 - 95 - 96 - 97 - 98

**CONSUMER PRODUCTS GROUP**

**Chips and Snacks**

Differently flavored potato chips, corn chips and twists sold through retail, institutional and private label sales.

- 85 - 87 - 88 - 90
- ▲ 83 - 84 - 85 - 86 - 87 - 88

**Dressings**

Includes mayonnaise, Tang Salad Dressings, sauces, sandwich spreads, mustards and condiment dressings in a wide variety of flavors sold through retail, institutional and private label sales.

- 87 - 89
- ▲ 82 - 84 - 85 - 86 - 88

**Frozen Foods and Perishables**

Mexican food consisting of dinners, enchiladas, tacos, tacoettes, tamales, chili and tortillas. Also includes cheese and pepperoni pizzas and salads such as cole slaw, potato salad, macaroni salad and gelatin salads

in several different flavors. Available through retail sales in consumer packaging as well as through institutional and private label sales.

- 84
- ▲ 81

**Pickles and Relishes**

Sweet, fresh pack, sour and dill pickles, as well as related products such as relishes. Available in retail, institutional and private label sales.

- 87
- ▲ 82 - 84 - 85 - 86 - 88

**Syrups**

Lumberjack imitation maple syrup and berry syrups in a wide range of flavors including raspberry, blackberry, boysenberry, blueberry and strawberry. Sold primarily in 12-ounce bottles through retail outlets.

- 87 - 89
- ▲ 82 - 84 - 85 - 86 - 88

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**FROZEN FOODS DIVISION  
SEAPAK DIVISION**

● Plants

99 GEORGIA, St. Simons Island  
31522  
Sea Pak Corp.  
(912) 638-8691

100 GEORGIA, Thunderbolt 31404  
Trade Winds Company  
(912) EL 4-6711

101 TEXAS, Brownsville 78520  
Trade Winds Company  
2954 Boca Chica Street  
P.O. Box 1867  
(512) 546-2211

▲ Sales Offices

102 GEORGIA, St. Simons Island  
31522  
Sea Pak Corp.  
(912) 638-8691

103 GEORGIA, Thunderbolt 31404  
Trade Winds Company  
(912) EL 4-6711

104 TEXAS, Brownsville 78520  
Trade Winds Company  
2954 Boca Chica Street  
P.O. Box 1867  
(512) 546-2211

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**PRODUCTS**

**Fish**

Frozen cooked and uncooked fish steaks, portions, fillets and breaded fish sticks. Sold through retail outlets and through institutional distribution.

- 99 - 100 - 101
- ▲ 102 - 103 - 104

**Shrimp and Shellfish**

Frozen cooked and uncooked shrimp, oysters, crabs and shellfish specialties. Available through retail outlets and through institutional distribution.

- 99 - 100 - 101
- ▲ 102 - 103 - 104

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**MILLER BREWING COMPANY**

*Brews and markets premium beer (MILLER HIGH LIFE®) through a national network of distributors and produces GETTLEMAN® beer for the Wisconsin area.*

● Plants

CALIFORNIA, Azusa (91702)  
819 North Vernon Avenue  
(213) 334-1291

TEXAS, Fort Worth (76134)  
7001 South Freeway  
(817) AX 3-3132

WISCONSIN, Milwaukee  
(53208)  
4000 West State Street  
(414) 342-4500

**GRACE**

**GRACE PETROLEUM CORPORATION**

*Produces high gravity Libyan crude oil.*

**Headquarters Office**

7 Hanover Square  
New York, New York 10005  
(212) 344-1200

● **Producing Operations Office**

LIBYA

TRIPOLI  
P.O. Box 199  
Cable: GRACEPETECO.  
TRIPOLI

▲ **Sales Office**

UNITED STATES

NEW YORK, New York 10005  
7 Hanover Square  
(212) 344-1200