

Material Safety Data Sheet



Section 1. Product and Company Identification

Product Name	WV29-01 Insect Repellent Lotion	Product Code	WV29-01
Manufacturer	EMD Chemicals Inc. Pigments Division 7 Skyline Drive Hawthorne, NY 10532	Effective Date	1/26/2006
		Print Date	1/26/2006

For More Information Call

(914) 592-4660
M-F, 9AM-4:30 PM EST

In Case of Emergency Call

800-424-9300 CHEMTREC (USA)
613-996-6666 (Canada)
24 Hours/Day: 7 Days/Week

Material Uses Insecticide.

Chemical Family Organic

Section 2. Hazards Identification

Physical State and Appearance Liquid. (White lotion with faint odor)

Emergency Overview HARMFUL IF SWALLOWED.
MAY CAUSE HERITABLE GENETIC EFFECTS.
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING ORGANS:
CENTRAL NERVOUS SYSTEM.
MAY BE HARMFUL IF INHALED.
MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Likely Routes of Exposure Dermal contact. Eye contact. Inhalation. Ingestion.

Potential Acute Health Effects

Eyes May be hazardous in case of eye contact (irritant).

Skin Not available.

Inhalation May be hazardous in case of inhalation (lung irritant).

Ingestion Hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic Effects This material is not known to cause cancer in animals or humans.

Additional information See Toxicological Information (section 11)

Medical Conditions aggravated by Exposure Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 3. Composition and Information on Ingredients

Component	CAS #	% by Weight
WATER	7732-18-5	70.1
3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester	52304-36-6	10
hexadecanoic acid, 1-methylethyl ester	142-91-6	4
1,3-butanediol	107-88-0	4
PPG-3 Benzyl Ether Myristate	403517-45-3	2
STEARIC ACID	57-11-4	2
polyethylene glycol stearate	9004-99-3	1.75
OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER	123-94-4	1.75
1-HEXADECANOL	36653-82-4	1

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DIMETHICONE	9006-65-9	0.5
PROPYLENE GLYCOL	57-55-6	0.5
alkanes, c13-16-iso-	68551-20-2	0.5
2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-	6440-58-0	0.3
Triethanolamine extra pure, NF	102-71-6	0.3
3,6,9,12,15,18,21-heptaioxatritriacontan-1-ol	3055-97-8	0.3
acrylic acid, polymer with sucrose polyallyl ether	9007-16-3	0.3
2-propenamide, homopolymer	9003-05-8	0.2
XANTHAN GUM	1138-66-2	0.2
ACETIC ACID, (ETHYLENEDINITRIL)TETRA-, DISODIUM SALT	139-33-3	0.1
benzoic acid, p-hydroxy-, methyl ester	99-76-3	0.1
benzoic acid, 4-hydroxy-, propyl ester	94-13-3	0.1

Section 4. First Aid Measures

Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.
Skin Contact	NO known EFFECT according to our database.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product	Product will burn.
Auto-ignition Temperature	Not available.
Flash Points	Closed cup: 25°C (77°F).
Flammable Limits	Not available.
Products of Combustion	Nitrous gases
Fire Hazards in Presence of Various Substances	Development of hazardous combustion gases or vapors.
Explosion Hazards in Presence of Various Substances	<p>Risks of explosion of the product in presence of static discharge: Slightly flammable in presence of open flames, sparks and static discharge.</p> <p>Risks of explosion of the product in presence of mechanical impact:.no</p>
Fire Fighting Media and Instructions	In case of fire, use water spray (fog), foam, dry chemical, or CO2.
Protective Clothing (Fire)	Wear self-contained breathing apparatus and full protective clothing.
Special Remarks on Fire Hazards	Not available.
Special Remarks on Explosion Hazards	Not available.

Section 6. Accidental Release Measures

Small Spill and Leak	Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	Use appropriate tools to put the spilled material into a labeled waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional regulatory requirements. Check TLV- Section 8 of MSDS.
Spill Kit Information	No specific spill kit required for this product.

Section 7. Handling and Storage

Handling	Avoid contact with eyes, and clothing. Do not ingest. Avoid breathing vapors or spray mists. Keep container closed.
Storage	Store in a dry place and in tightly closed containers.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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Personal Protection

Eyes Splash goggles.

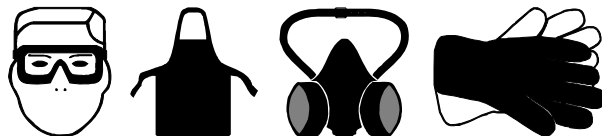
Body Synthetic apron.

Respiratory Vapor and dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Impervious gloves.

Feet Not applicable.

Protective Clothing (Pictograms)



Personal Protection in Case of a Large Spill	Splash goggles. Synthetic apron. Nitrile gloves. Wear MSHA/NIOSH approved self-contained breathing apparatus or equivalent and full protective gear.
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Product Name	Exposure Limits
WATER	Not available.
3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester	Not available.
hexadecanoic acid, 1-methylethyl ester	Not available.
1,3-butanediol	Not available.
PPG-3 Benzyl Ether Myristate	Not available.
STEARIC ACID	Not available.
polyethylene glycol stearate	Not available.
OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER	Not available.
1-HEXADECANOL	N-Arbeidstilsynet (Norway, 1996). AN: 180 mg/m ³ 8 hour(s). AN: 50 ppm 8 hour(s).
DIMETHICONE	Not available.
PROPYLENE GLYCOL	AIHA WEEL (United States, 1/2005). Notes: 2004 Revised Document TWA: 10 mg/m ³ 8 hour(s). Form: All forms
alkanes, c13-16-iso-	Not available.
2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)	Not available.

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-5,5-dimethyl-

Triethanolamine extra pure, NF

ACGIH TLV (United States, 1/2005).

TWA: 5 mg/m³ 8 hour(s). Form: All forms

3,6,9,12,15,18,21-heptaooxatritriacontan-1-ol

Not available.

acrylic acid, polymer with sucrose polyallyl ether

Not available.

2-propenamide, homopolymer

Not available.

XANTHAN GUM

Not available.

ACETIC ACID, (ETHYLENEDINITRILO)

Not available.

TETRA-, DISODIUM SALT

benzoic acid, p-hydroxy-, methyl ester

Not available.

benzoic acid, 4-hydroxy-, propyl ester

Not available.

Section 9. Physical and Chemical Properties

Odor Faint Odor

Color White.

Physical State and Appearance Liquid. (White lotion with faint odor)

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH 6.6 [Neutral.]

Boiling/Condensation Point The lowest known value is 100°C (212°F) (WATER).

Melting/Freezing Point May start to solidify at 0°C (32°F) based on data for: WATER.

Specific Gravity Weighted average: 0.95 (Water = 1)

Vapor Pressure The highest known value is 101.3 kPa (760 mmHg) (at 20°C) (WATER).

Vapor Density The highest known value is 598 (Air = 1) (WATER).

Odor Threshold Not available.

Evaporation Rate 0.36 (WATER) compared to (n-BUTYL ACETATE=1)

LogK_{ow} Not available.

Solubility Partially soluble in water.

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Conditions of Instability Not available.

Incompatibility with Various Substances Not available.

Hazardous Decomposition Products Not available.

Hazardous Polymerization Will not occur.

Section 11. Toxicological Information

RTECS Number:	Water	ZC0110000
	Ethyl Butylacetylaminopropionate	Not available.
	Isopropyl Palmitate	RT4900000
	Butylene Glycol	EK0440000
	PPG-3 Benzyl Ether Myristate	Not available.
	Stearic Acid	WI2800000
	PEG-100 Stearate	MD0907300, QH5255000, QH5280000, TQ5400000, TQ5450000, TQ5500000, TQ5600000, TQ5640000, TQ5800000, TQ5950000
	Glyceryl Stearate	Not available.
	Cetyl alcohol, extra pure	MM0225000
	Dimethicone	Not available.
	Propylene Glycol	TY2000000
	C13-14 Isoparaffin	Not available.
	DMDM Hydantoin	MT9191500
	Triethanolamine extra pure, NF	KL9275000
	Laureth-7	Not available.
	Carbomer	AT4683000
	Polyacrylamide	AS3700000
	Xanthan Gum	Not available.
	ACETIC ACID, (ETHYLENEDINITRILO)	AH4375000
	TETRA-, DISODIUM SALT	
	Methylparaben	DH2450000
	Propylparaben	DH2800000
Toxicity	Acute oral toxicity (LD ₅₀): >2000 mg/kg [Rat]. (STEARIC ACID). Acute dermal toxicity (LD ₅₀): >2600 mg/kg [Rabbit]. (1-HEXADECANOL).	
Chronic Effects on Humans	Slightly hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant), of ingestion. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to eye, lens or cornea. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Acute Effects on Humans	May be hazardous in case of eye contact (irritant). May be hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Non-permeator by skin. May be hazardous in case of inhalation (lung irritant). Hazardous in case of ingestion.	
Synergetic Products (Toxicologically)	Not available.	
Irritancy	<u>Draize Test:</u> Not available.	
Sensitization	Caution - preparation not yet fully tested.	
Carcinogenic Effects	This material is not known to cause cancer in animals or humans.	
Toxicity to Reproductive System	Not available.	
Teratogenic Effects	Not available.	
Mutagenic Effects	Not available.	

Section 12. Ecological Information

Ecotoxicity Not available.

BOD5 and COD Not available.

Toxicity of the Products of Biodegradation The products of degradation are less toxic than the product itself.

Section 13. Disposal Considerations

EPA Waste Number Non-hazardous chemical waste.

Treatment Dispose of according to all federal, state and local regulations.

Section 14. Transport Information

DOT Classification Not regulated.

TDG Classification Not regulated.

IMO/IMDG Classification Not regulated.

ICAO/IATA Classification Not regulated.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: For Research & Development Use Only.
 SARA 302/304/311/312 extremely hazardous substances: No products were found.
 SARA 302/304 emergency planning and notification: No products were found.
 SARA 302/304/311/312 hazardous chemicals: STEARIC ACID; 1,3-butanediol
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: STEARIC ACID: Immediate (Acute) Health Hazard; 1,3-butanediol: Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
 SARA 313 Form R Reporting Requirements- No products were found.
 SARA 313 Supplier Notification- No products were found.
 Clean Water Act (CWA) 307: No products were found.
 Clean Water Act (CWA) 311: No products were found.
 Clean air act (CAA) 112 accidental release prevention: No products were found.
 Clean air act (CAA) 112 regulated flammable substances: No products were found.
 Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Class D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: For Research & Development Use Only.

International Regulations

EINECS	WATER	231-791-2	
	3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester		257-835-0
	hexadecanoic acid, 1-methylethyl ester	205-571-1	
	1,3-butanediol	203-529-7	
	PPG-3 Benzyl Ether Myristate		Not available.
	STEARIC ACID	200-313-4	
	polyethylene glycol stearate		Not available.
	OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER		204-664-4
	1-HEXADECANOL	253-149-0	
	DIMETHICONE		Not available.
	PROPYLENE GLYCOL	200-338-0	
	alkanes, c13-16-iso-	271-370-0	
	2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-		229-222-8

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Triethanolamine extra pure, NF	203-049-8	
3,6,9,12,15,18,21-heptaooxatritriacontan-1-ol		221-283-9
acrylic acid, polymer with sucrose polyallyl ether		Not available.
2-propenamide, homopolymer		Not available.
XANTHAN GUM	Not available.	
ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT		205-358-3
benzoic acid, p-hydroxy-, methyl ester	202-785-7	
benzoic acid, 4-hydroxy-, propyl ester	202-307-7	

DSCL (EEC)

This product is not classified according to the EU regulations.

International Lists

Australia (NICNAS): WATER; 3,6,9,12,15,18,21-heptaooxatritriacontan-1-ol; STEARIC ACID; 1-HEXADECANOL; DIMETHICONE; OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT; benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; 2-propenamide, homopolymer; hexadecanoic acid, 1-methylethyl ester; PROPYLENE GLYCOL; Triethanolamine extra pure, NF; alkanes, c13-16-iso-; polyethylene glycol stearate; 1,3-butanediol

China: WATER; 3,6,9,12,15,18,21-heptaooxatritriacontan-1-ol; STEARIC ACID; 3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester; 1-HEXADECANOL; DIMETHICONE; OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT; benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; 2-propenamide, homopolymer; hexadecanoic acid, 1-methylethyl ester; PROPYLENE GLYCOL; Triethanolamine extra pure, NF; alkanes, c13-16-iso-; polyethylene glycol stearate; 1,3-butanediol; acrylic acid, polymer with sucrose polyallyl ether

Germany water class: benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; hexadecanoic acid, 1-methylethyl ester; polyethylene glycol stearate; 1,3-butanediol

Japan (MITI): WATER; STEARIC ACID; 1-HEXADECANOL; OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT; benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; 2-propenamide, homopolymer; hexadecanoic acid, 1-methylethyl ester; PROPYLENE GLYCOL; Triethanolamine extra pure, NF; polyethylene glycol stearate; 1,3-butanediol

Japan (MOL): OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; PROPYLENE GLYCOL

Korea (TCCL): WATER; 3,6,9,12,15,18,21-heptaooxatritriacontan-1-ol; STEARIC ACID; 1-HEXADECANOL; OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT; benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; 2-propenamide, homopolymer; hexadecanoic acid, 1-methylethyl ester; PROPYLENE GLYCOL; Triethanolamine extra pure, NF; alkanes, c13-16-iso-; polyethylene glycol stearate; 1,3-butanediol

Philippines (RA6969): WATER; STEARIC ACID; 3-[N-Butyl-N-acetyl]-aminopropionic acid ethyl ester; 1-HEXADECANOL; DIMETHICONE; OCTADECANOIC ACID, 2,3-DIHYDROXYPROPYL ESTER; ACETIC ACID, (ETHYLENEDINITRILLO)TETRA-, DISODIUM SALT; benzoic acid, 4-hydroxy-, propyl ester; 2,4-imidazolidinedione, 1,3-bis(hydroxymethyl)-5,5-dimethyl-; benzoic acid, p-hydroxy-, methyl ester; 2-propenamide, homopolymer; hexadecanoic acid, 1-methylethyl ester; PROPYLENE GLYCOL; Triethanolamine extra pure, NF; alkanes, c13-16-iso-; polyethylene glycol stearate; 1,3-butanediol; acrylic acid, polymer with sucrose polyallyl ether

State Regulations

Pennsylvania RTK: PROPYLENE GLYCOL: (generic environmental hazard); Triethanolamine extra pure, NF: (generic environmental hazard)
Massachusetts RTK: Triethanolamine extra pure, NF
California prop. 65: No products were found.

Section 16. Other Information

National Fire
Protection
Association
(U.S.A.)

Other Special
Considerations

Not available.

Changed Since Last
Revision**Notice to Reader**

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