

US EPA ARCHIVE DOCUMENT

MAY 30 1990

MEMORANDUM

SUBJECT: EEB Response to List A DCI for CARBARYL

TO: Amy S. Rispin, Chief
Science Analysis and Coordination Staff
Environmental Fate and Effects Division

FROM: 
James W. Akerman, Chief
Ecological Effects Branch
Environmental Fate and Effects Division

We have completed our review of the DCI for the List A pesticide CARBARYL. You will find our comments in the margins of the attached document submitted to us for review.

If you have any questions concerning this review, please contact the reviewer, Candy Brassard, or her Section Head, Ann Stavola.

ATTACHMENT

*Copy of DCI
5/29/90
Candy
Barnard*

*4221
MRID NO.
DATE
24 12/19/90
REVISED*

LIST A PROJECT
INVENTORY SUMMARY SHEET

SHAUGHNESSY # :056801 CHEM. CASE NAME :Carbaryl
 CASE # :0080 CASE NAME :Carbaryl
 DATE REGISTRATION STANDARD ISSUED : / / DATE SECD ROUND REVIEW : / /

SUMMARY OF DATA REQUIREMENTS AND STUDIES

| <u>Discipline</u> | <u>Data Req.</u> | <u>Studies Rec'd</u> | <u>Studies Rev'd</u> | <u>Studies Not Rev'd</u> | <u>Data Outstd</u> | <u>New Req.</u> |
|-------------------|------------------|----------------------|----------------------|--------------------------|--------------------|-----------------|
| Prod. Chem. | 14 | 0 | 0 | 0 | 14 | 0 |
| Eco. Eff. | 10 | 0 | 0 | 0 | 10 | 0 |
| Tox. | 4 | 0 | 0 | 0 | 4 | 0 |
| Eco. Eff. P.P. | 1 | 0 | 0 | 0 | 1 | 0 |
| NDEB | 0 | 0 | 0 | 0 | 0 | 0 |
| Env. Fate | 14 | 0 | 0 | 0 | 14 | 0 |
| Res. Chem. | 7 | 0 | 0 | 0 | 7 | 0 |
| Spl. Stud. | 2 | 0 | 0 | 0 | 2 | 0 |
| TOTALS (*) | 52 | 0 | 0 | 0 | 52 | 0 |

* -- A single study may be submitted to support more than one data requirement(guideline), and totals include each occurrence of the study submitted.

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : PRODUCT CHEMISTRY

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|---------------------------|----------------|
| 61-2A | Begin. mat. & mnfg. proc | Yes |
| 61-2B | Discussion of Impurities | Yes |
| 62-1 | Preliminary Analysis | Yes |
| 63-2 | Color | Yes |
| 63-3 | Physical State | Yes |
| 63-4 | Odor | Yes |
| 63-5 | Melting Point | Yes |
| 63-7 | Density | Yes |
| 63-8 | Solubility | Yes |
| 63-9 | Vapor Pressure | Yes |
| 63-10 | Dissociation Constant | Yes |
| 63-11 | Oct/Water partition Coef. | Yes |
| 63-12 | pH | Yes |
| 63-13 | Stability | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINEDISCIPLINE : PRODUCT CHEMISTRY
(continued)

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt</u> |
|-------------|-------------------|-------------|------------------|--------------|-------------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : ECOLOGICAL EFFECTS

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|---|----------------|
| 71-5B | Actual field study | Yes |
| 72-1B | Fish toxicity bluegill - TEP | Yes |
| 72-1D | Fish toxicity rainbow trout ^{TEP} _✓ | Yes |
| 72-2B | Invertebrate toxicity - TEP | Yes |
| 72-3A | Estu/mari tox. fish | Yes |
| 72-3C | Estu/mari tox. shrimp | Yes |
| 72-3D | Estu/mari tox. fish - TEP | Yes |
| 72-3E | Estu/mari tox. mollusk - TEP | Yes |
| 72-3F | Estu/mari tox. shrimp - TEP | Yes |
| 72-7B | Actual field-aquatic orgs. | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINEDISCIPLINE : ECOLOGICAL EFFECTS
(continued)

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt</u> |
|-------------|-------------------|-------------|------------------|--------------|-------------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : TOXICOLOGY

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|--------------------------|----------------|
| 83-1B | Chronic tox - non-rodent | Yes |
| 83-2A | Oncogenicity - rat | Yes |
| 83-2B | Oncogenicity-mouse | Yes |
| 85-1 | General metabolism | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt.</u> |
|-------------|-------------------|-------------|------------------|--------------|--------------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : ECOLOGICAL EFFECTS - PLANT PROTECTION

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|----------------------|----------------|
| 122-2 | Aquatic plant growth | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt.</u> |
|-------------|-------------------|-------------|------------------|--------------|--------------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : NDEB

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|-------------------|----------------|
| None | None | None |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt</u> |
|-------------|-------------------|-------------|------------------|--------------|-------------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : ENVIRONMENTAL FATE

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|-------------------------------|----------------|
| 161-2 | Photodegradation-water | Yes |
| 161-3 | Photodegradation-soil | Yes |
| 162-1 | Aerobic soil metabolism | Yes |
| 162-2 | Anaerobic soil metabolism | Yes |
| 162-3 | Anaerobic aquatic metab. | Yes |
| 162-4 | Aerobic aquatic metab. | Yes |
| 163-1 | Leach/adsorp/desorption | Yes |
| 164-1 | Terrestrial field dissipation | Yes |
| 164-2 | Aquatic field dissipation | Yes |
| 164-3 | Forest field dissipation | Yes |
| 165-1 | Confined rotational crop | Yes |
| 165-3 | Accumulation - irrig crop | Yes |
| 201-1 | Droplet size spectrum | Yes |
| 202-1 | Drift field evaluation | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : RESIDUE CHEMISTRY

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|-------------------------------|----------------|
| 171-4A | Nature of residue - plants | Yes |
| 171-4B | Nature of residue - livestock | Yes |
| 171-4C | Res. analyt. method - plant | Yes |
| 171-4E | Storage stability | Yes |
| 171-4J | Mag. meat/milk/poultry/egg | Yes |
| 171-4K | Cropfield trials | Yes |
| | ALFALFA FEED | |
| | ALMONDS | |
| | APRICOTS | |
| | ASPARAGUS | |
| | AVOCADOS | |
| | BANANAS | |
| | BARLEY | |
| | BEANS (FORAGE & HAY) | |
| | BEENS | |
| | BEET GREENS | |
| | BEETS | |
| | BIRDS FOOT TREEFOIL (FEE | |
| | BLACKBERRIES | |
| | BOYSENBERRIES | |
| | BROCCOLI | |
| | BRUSSELS SPROUTS | |
| | CABBAGE | |
| | CARROTS | |
| | CAULIFLOWER | |
| | CELERY | |
| | CHERRIES | |
| | CHESTNUTS | |
| | CHINESE CABBAGE | |
| | CITRUS FRUITS | |
| | CLOVER/FEED | |
| | COARSE RADDISH | |
| | COLLARDS | |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINEDISCIPLINE : RESIDUE CHEMISTRY
(continued)

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|--------------------------|----------------|
| 171-4K | Cropfield trials | Yes |
| | CORN | |
| | CORN (FORAGE & FODDER) | |
| | COTTONSEED | |
| | COWPEAS | |
| | COWPEAS (FORAGE & HAY) | |
| | CRANBERRIES | |
| | CUCUMBER | |
| | DANDILION | |
| | DEWBERRIES | |
| | EGGPLANT | |
| | ENDIVE | |
| | FILBERTS | |
| | FLAXSEED | |
| | GRAPES | |
| | GRASS FORAGE & HAY | |
| | KALE | |
| | KOHLRABI | |
| | LETTUCE | |
| | LOGANBERRIES | |
| | MAPPLESAP | |
| | MELONS | |
| | MILLET | |
| | MILLET (FORAGE) | |
| | MUSTARD GREENS | |
| | OATS | |
| | OATS (FORAGE & HAY) | |
| | OKRA | |
| | OLIVES | |
| | ONIONS | |
| | PARSLY | |
| | PARSNIPS | |
| | PEA LENTIL VINES (FORAGE | |
| | PEACHES/NECTARINES | |
| | PEANUTS | |
| | PEAS-LENTILS | |
| | PECANS | |
| | PEPPERS | |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINEDISCIPLINE : RESIDUE CHEMISTRY
(continued)

Data Required :

| GR # | Study Name | RS Req. |
|--------|--|---------|
| 171-4K | Cropfield trials PISTACHIO NUTS PLUMS/PRUNES POME FRUITS POTATOS PRICKLY PEAR CACTUS PUMPKINS RADISH RASPBERRIES RHUBARB RICE RICE STRAW RUTABAGAS RYE RYE (FORAGE & HAY) SALSIFY SALSIFY LEAF SORGHUM SORGHUM (FORAGE & FODDER SOYBEAN FORAGE SOYBEANS SPINACH SQUASH STRAWBERRIES SUGAR BEET TOPS SUGAR BEETS SUNFLOWER SWEET POTATOES SWISS CHARD TOBACCO TOMATOS TURNIP TOPS TURNIPS WALNUTS WHEAT WHEAT (FORAGE & HAY) | Yes |

171-4L Processed food

Yes

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINEDISCIPLINE : RESIDUE CHEMISTRY
(continued)

Data Required :

| GR # | Study Name | RS Req. |
|--------|--|---------|
| 171-4L | Processed food CITRUS FRUITS PROCESSED CORN PROCESSED COTTONSEED PROCESSED FLAXSEED PROCESSED GRAPES PROCESSED MAPPLESAP PROCESSED OLIVES PROCESSED PEANUTS PROCESSED PLUMS/PRUNES PROCESSED POME FRUITS PROCESSED POTATOS PROCESSED RICE PROCESSED SORGHUM PROCESSED SORGHUM (FORAGE & FODDER PROCESSED SOYBEANS PROCESSED SUGAR BEETS PROCESSED SUNFLOWER PROCESSED TOMATOS PROCESSED WHEAT | Yes |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY - 056801
BY DISCIPLINEDISCIPLINE : RESIDUE CHEMISTRY
(continued)

Data Required :

| GR # | Study Name | RS Req. |
|--------|--------------------------------------|---------|
| 171-4L | Processed food WHEAT PROCESSED | Yes |

New Requirements :

| GR # | Study Name | Now Req. |
|------|------------|----------|
| None | None | None |

Studies to be reviewed :

| GR # | Study Name | MRID | Date Rcvd |
|------|------------|------|-----------|
| None | None | None | None |

Studies Reviewed :

| GR # | Study Name | MRID | Date Rcvd | Rvwd. | Acpt |
|------|------------|------|-----------|-------|------|
| None | None | None | None | None | None |

LIST A PROJECT

DETAILED REPORT OF DATA AND STUDY REQUIREMENTS FOR SHAUGHNESSY = 056801
BY DISCIPLINE

DISCIPLINE : SPECIAL STUDIES

Data Required :

| <u>GR #</u> | <u>Study Name</u> | <u>RS Req.</u> |
|-------------|-------------------|----------------|
| 171.4 | SSOYSTER STUDY | Yes |
| 83-3 | SS DOG TERATOLOGY | Yes |

New Requirements :

| <u>GR #</u> | <u>Study Name</u> | <u>Now Req.</u> |
|-------------|-------------------|-----------------|
| None | None | None |

Studies to be reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> |
|-------------|-------------------|-------------|------------------|
| None | None | None | None |

Studies Reviewed :

| <u>GR #</u> | <u>Study Name</u> | <u>MRID</u> | <u>Date Rcvd</u> | <u>Rvwd.</u> | <u>Acpt.</u> |
|-------------|-------------------|-------------|------------------|--------------|--------------|
| None | None | None | None | None | None |

CHEMICAL MANAGEMENT SHEET
SHAUGHNESSY = 056801
as of 04/25/90

No entries made for this chemical.