

SAFETY DATA SHEET

D-Force Insecticide

SDS # : 7099-A
Revision date: 2015-04-14
Format: NA
Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name D-Force Insecticide

Other means of identification

Product Code(s) 7099-A

Synonyms (1R,3R)-3(2,2-dibromovinyl)-2,2-dimethylcyclopropane carboxylic

Active Ingredient(s) Deltamethrin

Chemical Family Pyrethroid Ester Insecticide

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label

Manufacturer Address

FMC Corporation
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
Medical Emergencies:
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

| | |
|-------------------------------------|-------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Inhalation (Gases) | Category 4 |
| Skin sensitization | Category 1B |
| Aspiration toxicity | Category 1 |
| Flammable Aerosols | Category 1 |

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW**Danger****Hazard Statements**

H302 - Harmful if swallowed
 H304 - May be fatal if swallowed and enters airways
 H317 - May cause an allergic skin reaction
 H332 - Harmful if inhaled

Physical Hazards

H222 - Extremely flammable aerosol
 H229 - Pressurized container: May burst if heated

**Precautionary Statements - Prevention**

P264 - Wash face, hands and any exposed skin thoroughly after handling
 P270 - Do not eat, drink or smoke when using this product
 P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
 P363 - Wash contaminated clothing before reuse
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell
 P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
 P331 - Do NOT induce vomiting
 P330 - Rinse mouth

Precautionary Statements - Storage

P405 - Store locked up
 P410 + P403 - Protect from sunlight. Store in a well-ventilated place

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Very toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Pyrethroid Ester Insecticide.

| Chemical name | CAS-No | Weight % |
|---|------------|----------|
| Deltamethrin | 52918-63-5 | 0.06 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | >75 |
| Naphtha (petroleum), light alkylate | 64741-66-8 | 10-20 |
| Carbon Dioxide | 124-38-9 | 1-5 |

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

| | |
|---|---|
| Eye Contact | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice. |
| Skin Contact | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. |
| Inhalation | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |
| Ingestion | Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | None known. |
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. Contains petroleum distillate. Vomiting may cause aspiration pneumonia. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Specific Hazards Arising from the Chemical | Contents under pressure. Non-flammable aerosol. |
| Explosion data | |
| Sensitivity to Mechanical Impact | Not sensitive. |
| Sensitivity to Static Discharge | Not sensitive. |
| Protective equipment and precautions for firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment. |
| Other | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above. |
| Environmental Precautions | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant. |

7. HANDLING AND STORAGE

| | |
|-----------------|--|
| Handling | Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. |
|-----------------|--|

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products None known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH | Mexico |
|--|------------------------------------|--|---|--|
| Carbon Dioxide 124-38-9 | STEL 30000 ppm TWA: 5000 ppm | TWA: 5000 ppm TWA: 9000 mg/m ³ | IDLH: 40000 ppm TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³ | Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m ³ Mexico: STEL 15000 ppm Mexico: STEL 27000 mg/m ³ |
| Chemical name | British Columbia | Quebec | Ontario TWAEV | Alberta |
| Petroleum distillates, hydrotreated light 64742-47-8 | TWA: 200 mg/m ³ Skin | - | - | - |
| Carbon Dioxide 124-38-9 | TWA: 5000 ppm STEL: 15000 ppm | TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³ | TWA: 5000 ppm STEL: 30000 ppm | TWA: 5000 ppm TWA: 9000 mg/m ³ STEL: 30000 ppm STEL: 54000 mg/m ³ |

Appropriate engineering controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin and Body Protection Wear suitable protective clothing. Protective shoes or boots.

Hand Protection Protective gloves

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Clear, Colorless, Aerosolized liquid
Physical State Aerosol
Color Clear, Colorless
Odor No information available

| | |
|------------------------------|--|
| Odor threshold | No information available |
| pH | No information available |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | Non-flammable per flame projection test. |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Density | 6.69 lb/gal |
| Specific gravity | No information available |
| Water solubility | No information available |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Molecular weight | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | Not applicable |
| Chemical Stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Heat, flames and sparks. |
| Incompatible materials | None known. |
| Hazardous Decomposition Products | None known based on information supplied. |

11. TOXICOLOGICAL INFORMATION

Product Information

| | |
|-----------------------------------|-----------------------|
| LD50 Oral | 500 -5000 mg/kg (rat) |
| LD50 Dermal | > 2000 mg/kg (rat) |
| LC50 Inhalation | > 2 mg/L (rat) |
| Serious eye damage/eye irritation | Mildly irritating. |
| Skin corrosion/irritation | Irritating to skin. |
| Sensitization | Sensitizer. |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity Deltamethrin: Repeated or prolonged exposure may cause central nervous system effects (decrease motor activity, tremor, difficulty breathing, impaired gait and choreoathetosis).
Mutagenicity Deltamethrin: Not genotoxic in laboratory studies.

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Carcinogenicity Deltamethrin: No evidence of carcinogenicity from animal studies.
Neurological effects Deltamethrin: Neurobehavioral effects (tremors) were observed in studies with animals.
Reproductive toxicity Deltamethrin: No toxicity to reproduction in animal studies.
Developmental toxicity Deltamethrin: Not teratogenic in animal studies.
STOT - single exposure Not classified.
STOT - repeated exposure Not classified.
Target organ effects Nervous system.
Neurological effects Deltamethrin: Neurobehavioral effects (tremors) were observed in studies with animals.
Aspiration hazard Potential for aspiration if swallowed.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|----------------------------|-------|---------|-----|------|
| Deltamethrin 52918-63-5 | | Group 3 | | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Deltamethrin (52918-63-5) | | | | |
|---------------------------|-----------|-----------|--------|-------|
| Active Ingredient(s) | Duration | Species | Value | Units |
| Deltamethrin | 96 h LC50 | Fish | 0.26 | µg/L |
| | 48 h EC50 | Crustacea | 0.56 | µg/L |
| | 72 h EC50 | Algae | 9.1 | mg/L |
| | 21 d NOEC | Fish | 0.032 | µg/L |
| | 21 d NOEC | Crustacea | 0.0041 | µg/L |

Persistence and degradability Deltamethrin: Non-persistent. Does not readily hydrolyze at pH 7 and 8. Readily hydrolyzed at pH 9. Not readily biodegradable.

Bioaccumulation Deltamethrin: The substance has a potential for bioconcentration.

Mobility Deltamethrin: Immobile; Not expected to reach groundwater.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated Packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT USDOT is requiring that products formerly classified as "Consumer Commodity, ORM-D" transition to "Limited Quantity" by 12/31/2020. During the transition period the 49CFR carton shipping marks may be Consumer Commodity (old) or Limited Quantity Diamond (new). Please prepare shipping documents to match the carton mark.

UN/ID no UN1950
Proper Shipping Name Consumer commodity
Hazard class ORM-D

TDG Ship as Limited Quantity. Carton marks include Limited Quantity and Class 9 Diamond.
UN/ID no UN1950
Proper Shipping Name Aerosols
Hazard class 2.2
Marine Pollutant Deltamethrin.

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| | |
|-----------------------------|---|
| Description | UN1950, Aerosols, 2.2, Marine pollutant (Deltamethrin) |
| ICAO/IATA | Carton Marks: Limited quantity air, orientation arrows, Class 9 Diamond, Consumer Commodity, ID8000 |
| UN/ID no | ID8000 |
| Proper Shipping Name | Consumer commodity |
| Hazard class | 9 |
| IMDG/IMO | Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows. |
| UN/ID no | UN1950 |
| Proper Shipping Name | Aerosols |
| Hazard class | 2.2 |
| EmS No. | F-D, S-U |
| Description | UN1950, Aerosols, 2.2, Marine pollutant (Deltamethrin) |

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute health hazard | Yes |
| Chronic health hazard | No |
| Fire hazard | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

*Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.
This product is toxic to fish.*

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

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| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| Carbon Dioxide 124-38-9 | X | X | X |

International Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELI NCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|----------------------|--------------|-------------------------|--------------|---------------|--------------|---------------------|------------------|
| Deltamethrin 52918-63-5 (0.06) | | | X | | X | X | X | X |
| Petroleum distillates, hydrotreated light 64742-47-8 (>75) | X | X | X | X | X | X | X | X |
| Naphtha (petroleum), light alkylate 64741-66-8 (10-20) | X | X | X | | X | X | X | X |
| Carbon Dioxide 124-38-9 (1-5) | X | X | X | X | X | X | X | X |

Mexico - Grade Moderate risk, Grade 2

| Chemical name | Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities | Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities |
|----------------|--|--|
| Carbon Dioxide | 100000 | 100000 kg/yr |

WHMIS Hazard Class A - Compressed gases
 D2B - Toxic materials



16. OTHER INFORMATION

| | | | | |
|------|------------------|----------------|-------------------|-----------------------|
| NFPA | Health Hazards 2 | Flammability 1 | Instability 0 | Special Hazards - |
| HMIS | Health Hazards 2 | Flammability 1 | Physical hazard 0 | Personal Protection X |

Revision date: 2015-04-14
 Revision note: Format Change

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End of Safety Data Sheet