SAFETY DATA SHEET D-Force Insecticide

SDS #: 7099-A

Revision date: 2018-10-01

Format: NA Version 1.05



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-dimethylcylcopropane 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.

Supplier Address

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(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 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

Medical Emergencies:

1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)

1 651 / 632-6793 (ProPharma Group - 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

SDS #: 7099-A **Revision date**: 2018-10-01

Version 1.05

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 %
Petroleum distillates, hydrotreated light	64742-47-8	>75
Naphtha (petroleum), light alkylate	64741-66-8	10-20
Carbon Dioxide	124-38-9	1-5
Deltamethrin	52918-63-5	0.06

SDS #: 7099-A **Revision date: 2018-10-01** Version 1.05

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

Contents under pressure. Non-flammable aerosol.

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Specific Hazards Arising from the

Chemical

Other

Explosion data

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

No information available. No information available.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire

area. Evaluate upwind.

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.

For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, **Environmental Precautions**

streams, ponds, and sewer drains.

Prevent further leakage or spillage if safe to do so. **Methods for Containment**

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 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

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

SDS #: 7099-A

Revision date: 2018-10-01

Version 1.05

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	Mexico: TWA 5000 ppm Mexico: TWA 9000 mg/m³ Mexico: STEL 15000
			STEL: 54000 mg/m ³	ppm Mexico: STEL 27000 mg/m³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates, hydrotreated light (64742-47-8)	TWA: 200 mg/m³ Skin	-	-	-
Carbon Dioxide (124-38-9)	TWA: 5000 ppm STEL: 15000 ppm	TWA: 5000 ppm TWA: 9000 mg/m³ STEL: 30000 ppm STEL: 54000 mg/m³	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

Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.

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 Physical State Clear, Colorless Aerosolized liquid

Aerosol

SDS #: 7099-A

Revision date: 2018-10-01

Version 1.05

Color Odor

Clear, Colorless

Odor threshold

No information available No information available

Ha

No information available

Melting point/freezing point

Boiling Point/Range

Not applicable

Flash point

No information available Non-flammable per flame projection test.

Evaporation Rate

No information available

Flammability (solid, gas)

No information available

Flammability Limit in Air

Upper flammability limit: Lower flammability limit: Vapor pressure

No information available No information available No information available No information available

Vapor density Relative density

6.69 lb/gal

Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature

No information available No information available

Decomposition temperature Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing properties** Molecular weight

No information available No information available No information available No information available 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

Conditions to avoid

Heat, flames and sparks. None known.

Incompatible materials

Hazardous Decomposition Products None known based on information supplied.

Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral LD50 Dermal LC50 Inhalation > 2000 mg/kg (rat) 2000 mg/kg (rat) > 2.2 mg/L (rat) 4 hr

Serious eye damage/eye irritation

Skin corrosion/irritation

Mildly irritating. Irritating to skin.

Sensitization

May cause sensitization by skin contact

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.

SDS #: 7099-A

Revision date: 2018-10-01 Version 1.05

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 STOT - repeated exposure Target organ effects Not classified. Not classified. 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		Group 3		
52918-63-5				

Legend:

IARC (International Agency for Research on Cancer) Group 3 - Not classifiable as to its carcinogenicity to humans

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
4	72 h EC50	Algae	9.1	mg/L
	21 d NOEC	Fish	0.032	μg/L
	21 d NOEC	Crustacea	0.0041	ug/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. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

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

SDS #: 7099-A

Revision date: 2018-10-01

Version 1.05

(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 Description Deltamethrin. UN1950, Aerosols, 2.2, Marine pollutant (Deltamethrin)

Marine Pollutant

Mn

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 Aerosols

Proper Shipping Name 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 Yes
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

SDS #: 7099-A Revision date: 2018-10-01 Version 1.05

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

Chemical name	New Jersey	Massachusetts	Pennsylvania
Carbon Dioxide	X	X	X
124-38-9	2		

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Petroleum distillates, hydrotreated light 64742-47-8	X	Х	Х		Х	Х	Х	Х
Naphtha (petroleum), light alkylate 64741-66-8	Х	Х	Х		Х	Х	Х	Х
Carbon Dioxide 124-38-9	Х	Х	Х	Х	Х	Х	Х	Х
Deltamethrin 52918-63-5			Х		Х	Х	Х	Х

Mexico - Grade

Moderate risk, Grade 2

Chemical name	Carcinogen Status	Mexico
Carbon Dioxide		Mexico: TWA 5000 ppm
		Mexico: TWA 9000 mg/m ³
		Mexico: STEL 15000 ppm
		Mexico: STEL 27000 mg/m ³

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 Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class

A - Compressed gases D2B - Toxic materials





SDS #: 7099-A

Revision date: 2018-10-01

Version 1.05

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

^{*}Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend

Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

Revision date:

2018-10-01

Reason for revision:

(M)SDS sections updated

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End of Safety Data Sheet