## SAFETY DATA SHEET D-Force Insecticide

SDS # : 7099-A Revision date: 2020-10-19 Format: NA Version 1.06



# **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) SDS-Info@fmc.com (E-Mail General Information)
Emergency telephone number	
	Medical Emergencies : 1 800 / 331-3148 (U.S.A. & Canada) 1 651 / 632-6793 (All Other Countries - Collect)
	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)

# 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 and enters airways 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**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P211 Do not spray on an open flame or other ignition source
- P251 Do not pierce or burn, even after use
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P271 Use only outdoors or in a well-ventilated area
- P272 Contaminated work clothing should not be allowed out of the workplace
- P280 Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention
- P362 + P364 Take off all contaminated clothing and wash it 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**

- P403 Store in a well-ventilated place
- P405 Store locked up

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

#### **Precautionary Statements - Disposal**

P501 - Dispose of contents/container according to label directions

#### 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

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.		
Suitable Extinguishing Media Small Fire			
	surrounding environment.		
Small Fire	surrounding environment. Dry chemical. Carbon dioxide (CO <sub>2</sub> ).		
Small Fire Large Fire Specific Hazards Arising from the	surrounding environment. Dry chemical. Carbon dioxide (CO2). Water spray. Foam.		
Small Fire Large Fire Specific Hazards Arising from the Chemical <u>Explosion data</u> Sensitivity to Mechanical Impact	surrounding environment. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Foam. Contents under pressure. Do not incinerate or puncture No information available.		
Small Fire Large Fire Specific Hazards Arising from the Chemical Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and	surrounding environment. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Foam. Contents under pressure. Do not incinerate or puncture No information available. No information available. As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire		
Small Fire Large Fire Specific Hazards Arising from the Chemical Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge Protective equipment and	surrounding environment. Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Foam. Contents under pressure. Do not incinerate or puncture No information available. No information available. As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate upwind.		

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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 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	STEL 30000 ppm	TWA: 5000 ppm	IDLH: 40000 ppm	Mexico: TWA 5000 ppm
(124-38-9)	TWA: 5000 ppm	TWA: 9000 mg/m <sup>3</sup>	TWA: 5000 ppm	Mexico: STEL 30000
			TWA: 9000 mg/m <sup>3</sup>	ppm
			STEL: 30000 ppm	
			STEL: 54000 mg/m <sup>3</sup>	
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Petroleum distillates,	TWA: 200 mg/m <sup>3</sup>	-	-	-
hydrotreated light	Skin			
(64742-47-8)				
Carbon Dioxide	TWA: 5000 ppm	TWA: 5000 ppm	TWA: 5000 ppm	TWA: 5000 ppm
(124-38-9)	STEL: 15000 ppm	TWA: 9000 mg/m <sup>3</sup>		TWA: 9000 mg/m <sup>3</sup>
		STEL: 30000 ppm		STEL: 30000 ppm
		STEL: 54000 mg/m <sup>3</sup>	STEL: 30000 ppm	STEL: 54000 mg/m <sup>3</sup>

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

Clear, Colorless Aerosolized liquid Appearance **Physical State** Aerosol Color Clear, Colorless Odor No information available Odor threshold No information available No information available bН Not applicable Melting point/freezing point **Boiling Point/Range** No information available Flash point Non-flammable per flame projection test. No information available **Evaporation Rate** 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 **Relative density** 6.69 lb/gal No information available Specific gravity 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 LD50 Dermal LC50 Inhalation (dust) > 2000 mg/kg (rat)
> 2000 mg/kg (rat)
> 2.0 mg/L (rat) 4 bit

> 2.2 mg/L (rat) 4 hr

Serious eye damage/eye irritation	Mildly irritating.
Skin corrosion/irritation	Irritating to skin.
Sensitization	May cause sensitization by skin contact

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation (vapor)
Petroleum distillates, hydrotreated light (64742-47-8)	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat)4 h
Naphtha (petroleum), light alkylate (64741-66-8)	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 6.31 mg/L (Rat)4 h

## Information on toxicological effects

Symptoms	Symptoms of	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.		
Delayed and immediate effec	ts as well as chronic	effects from short and I	ong-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 laborato	ry studies.	
Carcinogenicity	Deltamethrin	No evidence of carcinoge	nicity from animal studies.	
Neurological effects	Deltamethrin	Deltamethrin: Neurobehavioral effects (tremors) were observed in studies with animals.		
Reproductive toxicity	Deltamethrin	Deltamethrin: No toxicity to reproduction in animal studies.		
Developmental toxicity	Deltamethrin	Deltamethrin: Not teratogenic in animal studies.		
STOT - single exposure STOT - repeated exposure Target organ effects	Not classified	Not classified. Not classified. Nervous system.		
Neurological effects	Deltamethrin	Deltamethrin: Neurobehavioral effects (tremors) were observed in studies with animals.		
Aspiration hazard	Potential for a	Potential for aspiration if swallowed.		
Chemical name	ACGIH	IARC	NTP	OSHA

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Deltamethrin

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

# **12. ECOLOGICAL INFORMATION**

Group 3

# **Ecotoxicity**

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

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
		-	aquatic invertebrates

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Naphtha (petroleum), light alkylate 64741-66-8	72 h EC50: = 30000 mg/L (Pseudokirchneriella subcapitata)		48 h LC50: = 2 mg/L (Mysidopsis bahia)
Petroleum distillates, hydrotreated light 64742-47-8		96 h LC50: = 2.2 mg/L (Lepomis macrochirus) static 96 h LC50: = 2.4 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 45 mg/L (Pimephales promelas) flow-through	96 h LC50: = 4720 mg/L (Den-dronereides heteropoda)
Persistence and degradability	Deltamethrin: Non-persisten hydrolyzed at pH 9. Not re	ent. Does not readily hydrolyze a adily biodegradable.	at pH 7 and 8. Readily
Bioaccumulation	Deltamethrin: The substar	nce has a potential for bioconcent	ration.
Mobility	Deltamethrin: Immobile; N	ot expected to reach groundwate	r.
	13. DISPOSAL C	ONSIDERATIONS	
Waste disposal methods	wastes cannot be dispose disposal authorities for gu	ss pesticide, spray mixture, or ring d of by use according to label ins idance. Proper personal protective worn while handling materials fo	tructions, contact appropriate equipment, as described in
Contaminated containers and packages		sed of in accordance with local, si for container disposal instructions	
	14. TRANSPOR	<b>FINFORMATION</b>	
DOT	Ship as Limited Quantity. arrows.	Carton marks include Limited Qua	antity mark and orientation

UN/ID no Proper Shippi Hazard class Description	ing Name	UN1950 Aerosols, flammable 2.1 UN1950, Aerosols, flammable, 2.1, Limited Quantity
<u>TDG</u>		Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.
UN/ID no Proper Shippi Hazard class Description	ing Name	UN1950 Aerosols, flammable 2.1 UN1950, Aerosols, flammable, 2.1, Limited Quantity
ICAO/IATA		Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows.
UN/ID no Proper Shippi Hazard class Description	ing Name	UN1950 Aerosols, flammable 2.1 UN1950, Aerosols, flammable, 2.1, Limited Quantity
IMDG/IMO UN/ID no Proper Shippi Hazard class EmS No. Description	ing Name	Ship as Limited Quantity. Carton marks include Limited Quantity mark and orientation arrows. UN1950 Aerosols 2.1 F-D, S-U UN1950, Aerosols, 2.1, Limited Quantity
Description		,

# **15. REGULATORY INFORMATION**

## U.S. Federal Regulations

## <u>SARA 313</u>

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	Yes
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

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

#### 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	X	Х	Х		х	Х	Х	Х

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Carbon Dioxide 124-38-9	Х	X	Х	Х	Х	Х	Х	Х
Deltamethrin			Х		Х	Х	Х	Х
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#### CANADA

Not applicable

# **16. OTHER INFORMATION**

NFPA	Health	Hazards	2	Flammability	1	Instability 0		Special Hazards -	
HMIS	Health	Hazards	2*	Flammability	1	Physical hazard	0	Personal Protection	Х
*Indicates a chronic health h	azard.								
NFPA/HMIS Ratings Leg	jend	Sev	ere = 4; \$	Serious = 3; Mc	oderate = 2	2; Slight = 1; Minima	al = 0		

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End of Safety Data Sheet