# SAFETY DATA SHEET SHARK® EW HERBICIDE

SDS #: 6310-A Revision date: 2015-04-20 Format: NA Version 1.01



# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier		
Product Name	SHARK® EW HERBICIDE	
Other means of identification		
Product Code(s)	6310-A	
Synonyms	CARFENTRAZONE-ETHYL (FMC 116426): ethyl α,2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl] -4-fluorobenzenepropanoate (CAS name); ethyl (RS)-2-chloro-3-[2-chloro-5- (4-difluoromethyl-4,5-dihydro-3-methyl-5- oxo-1H-1,2,4-triazol-1-yl) -4-fluorophenyl] propionate (IUPAC name)	
Active Ingredient(s)	Carfentrazone-ethyl	
Chemical Family	Triazolinones	
Recommended use of the chemical and restrictions on use		
Recommended Use:	Herbicide	
Restrictions on Use:	Use as recommended by the label	
<u>Manufacturer Address</u> Emergency telephone number	FMC Corporation 1735 Market Street Philadelphia, PA 19103 (215) 299-6000 (General Information) msdsinfo@fmc.com (E-Mail General Information)	
	Medical Emergencies: 1 800 / 331-3148 (PROSAR - U.S.A. & Canada) 1 651 / 632-6793 (PROSAR - All Other Countries - Collect) 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)	

# 2. HAZARDS IDENTIFICATION

### **Classification**

# **OSHA Regulatory Status**

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

Carcinogenicity	Category 2
Aspiration toxicity	Category 1

#### SHARK® EW HERBICIDE

GHS Label elements, including precautionary statements

#### EMERGENCY OVERVIEW

## Danger

Hazard Statements H304 - May be fatal if swallowed and enters airways





#### **Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood
P281 - Use personal protective equipment as required
Precautionary Statements - Response
P308 + P313 - IF exposed or concerned: Get medical advice/ attention
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting

#### **Precautionary Statements - Storage**

P405 - Store locked up

#### **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

No information available

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Chemical Family**

Triazolinones.

Chemical name	CAS-No	Weight %
Carfentrazone-ethyl	128639-02-1	21.3
Naphtha (petroleum), heavy aromatic	64742-94-5	20-30
2-Methylnaphthalene	91-57-6	1-5
Propylene glycol	57-55-6	1-5
1-Methylnaphthalene	90-12-0	1-5
Naphthalene	91-20-3	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 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. 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.	
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Inhalation	Move to fresh air. If person is not breathing, contact emergency medical services, 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	Central nervous system effects. Gastrointestinal effects.
Indication of immediate medical attention and special treatment needed, if necessary	Treatment is symptomatic and supportive. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

5. FIRE-FIGHTING MEASURES	
Suitable Extinguishing Media	Carbon dioxide (CO <sub>2</sub> ), Foam, Dry powder, Water spray.
Specific Hazards Arising from the Chemical	Slightly combustible. May support combustion at elevated temperatures.
Explosion data Sensitivity to Mechanical Impact Sensitivity to Static Discharge	Not sensitive. Not sensitive.
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective suit.
	6. ACCIDENTAL RELEASE MEASURES
Personal Precautions	Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8.
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	Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
Methods for cleaning up	Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13.
	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	

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
2-Methylnaphthalene	S*	-	-	-
91-57-6	TWA: 0.5 ppm			
1-Methylnaphthalene	S*	-	-	-
90-12-0	TWA: 0.5 ppm			
Naphthalene	S*	TWA: 10 ppm	IDLH: 250 ppm	Mexico: TWA 10 ppm
91-20-3	TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm	Mexico: TWA 50 mg/m <sup>3</sup>
			TWA: 50 mg/m <sup>3</sup>	Mexico: STEL 15 ppm
			STEL: 15 ppm	Mexico: STEL 75 mg/m <sup>3</sup>
			STEL: 75 mg/m <sup>3</sup>	
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
2-Methylnaphthalene	TWA: 0.5 ppm	-	TWA: 0.5 ppm	-
91-57-6	Skin		Skin	
Propylene glycol	-	-	TWA: 10 mg/m <sup>3</sup>	-
57-55-6			(aerosol only)	
			TWA: 50 ppm	
			(aerosol and vapor)	
			TWA: 155 mg/m <sup>3</sup>	
			(aerosol and vapor)	
1-Methylnaphthalene	TWA: 0.5 ppm	-	TWA: 0.5 ppm	-
90-12-0	Skin		Skin	
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm
91-20-3	STEL: 15 ppm	TWA: 52 mg/m <sup>3</sup>	STEL: 15 ppm	TWA: 52 mg/m <sup>3</sup>
	Skin	STEL: 15 ppm	Skin	STEL: 15 ppm
		STEL: 79 mg/m <sup>3</sup>		STEL: 79 mg/m <sup>3</sup> Skin
				SKIII

#### 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	For dust, splash, mist or spray exposure, wear chemical protective goggles.
Skin and Body Protection	Wear long-sleeved shirt, long pants, socks, and shoes.
Hand Protection	Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and the contact time.
Respiratory Protection	For dust, splash, mist or spray exposures wear a filtering mask.
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	Liquid, Off-white
Physical State	Liquid

#### SHARK® EW HERBICIDE

Color Off-white Solvent Odor Odor threshold рΗ 4.29 Melting point/freezing point Not applicable Boiling Point/Range Flash point **Evaporation Rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Density 8.80 lb/gal Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing properties** Molecular weight **Bulk density** 

# No information available No information available 104 °C / 219 °F Seta Closed Cup No information available No information available

### **10. STABILITY AND REACTIVITY**

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Reactivity	None under normal use conditions
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 Carbon oxides (COx), Hydrogen chloride, Hydrogen fluoride, Nitrogen oxides (NOx).

# **11. TOXICOLOGICAL INFORMATION**

#### Product Information

Symptoms

LD50 Oral	4077 mg/kg (rat)
LD50 Dermal	> 4000 mg/kg (rat)
LC50 Inhalation	> 6.31 mg/L 4 hr (rat) - Maximum attainable concentration (zero mortality)
Serious eye damage/eye irritation	Mildly irritating.
Skin corrosion/irritation	Mildly irritating (rabbit).
Sensitization	Based on a similar formulation, this product is not expected to produce skin sensitization.
Information on toxicological effects	

Signs of toxicity in laboratory animals included mydriasis, cyanosis, ataxia, dyspnea,
lacrimation, and diarrhea.

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

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Chronic toxicity	Carfentrazone-ethyl: Long-term exposure caused hematotoxicity and deposit of porphyrin in					
Mutagonicity	the liver in animal studies. Carfentrazone-ethyl : Not genotoxic in laboratory studies.					
Mutagenicity Carcinogenicity	Carfentrazone-ethyl : No evidence of carcinogenicity from animal studies. There was no evidence of carcinogenic activity of naphthalene in male mice, but there was some evidence of carcinogenic activity in female mice and clear evidence of carcinogenic activity in male and female rats in 2-year inhalation studies conducted by the National Toxicology Program (NTP).					
Neurological effects	Carfentrazone-ethyl : Not neurotoxic.					
Reproductive toxicity	Carfentrazone-ethyl : No toxicity to reproduction in animal studies.					
Developmental toxicity	Carfentrazone-ethyl : Not teratogenic in animal studies.					
STOT - single exposure	Not classified.					
STOT - repeated exposure	Not classified.					
Neurological effects	Carfentrazone-ethyl : Not neurotoxic.					
Aspiration hazard	Potential for aspiration if swallowed. Vomiting after ingestion of this product may cause aspiration of aromatic hydrocarbons into the lungs, which may result in fatal pulmonary edema.					

	Chemical name	ACGIH	IARC	NTP	OSHA
ſ	Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х

#### Legend:

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

# **12. ECOLOGICAL INFORMATION**

### **Ecotoxicity**

#### Carfentrazone-ethyl (128639-02-1) Active Ingredient(s) Duration Species Value Units Carfentrazone-ethyl 72 h EC50 Algae 0.012 mg/L 96 h LC50 Fish 1.6 mg/L 48 h LC50 >9.8 Daphnia mg/L 96 h NOEC Algae 1.0 µg/L 21 d NOEC Fish 0.0187 mg/L 21 d NOEC Crustacea 0.22 mg/L

Wasta dispesal methods	Improper dispessed of evenes posticide, enrov mixture, or risects is prohibited. If these
	13. DISPOSAL CONSIDERATIONS
Mobility	Mobility in soil: Not relevant.
Bioaccumulation	The substance does not have a potential for bioconcentration.
Persistence and degradability	Non-persistent. Readily hydrolyzed. Not readily biodegradable.

waste disposal methods	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**

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DOT	This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.
TDG UN/ID no Proper Shipping Name Hazard class Packing Group Marine Pollutant Description	Classification below is only applicable when shipped by vessel and is not applicable when shipped by road or rail only. UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III Carfentrazone-ethyl . UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl, Naphthalene), 9, PG III, Marine Pollutant
ICAO/IATA UN/ID no Proper Shipping Name Hazard class Packing Group Description IMDG/IMO UN/ID no Proper Shipping Name Hazard class Packing Group EmS No. Marine Pollutant Description	UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl, Naphthalene), 9, PG III UN3082 Environmentally hazardous substance, liquid, n.o.s. 9 III F-A, S-F Carfentrazone-ethyl UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl, Naphthalene), 9, PG III, Marine Pollutant

# 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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical name	CAS-No	Weight %	SARA 313 - Threshold Values %
Naphthalene - 91-20-3	91-20-3	1-5	0.1

# 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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances	
Naphthalene 91-20-3	100 lb	Х	Х	Х	

### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Naphthalene 91-20-3	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**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, absorbed through the skin or inhaled. Causes moderate eye irritation. Carfentrazone-ethyl is very toxic to algae and moderately toxic to fish.

# US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:.

Chemical name	California Prop. 65		
Naphthalene - 91-20-3	Carcinogen		

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
2-Methylnaphthalene 91-57-6	Х		
Propylene glycol 57-55-6	Х		Х
Naphthalene 91-20-3	Х	X	Х
1-Methylnaphthalene 90-12-0	Х	X	Х

# International Inventories

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carfentrazone-ethyl 128639-02-1 (21.3) )					Х			
Naphtha (petroleum), heavy aromatic 64742-94-5 (20-30 )	Х	X	X	Х	×	х	x	x
2-Methylnaphthalen e 91-57-6 (1-5)	Х	X	Х	Х	X		X	Х
Propylene glycol 57-55-6 (1-5)	Х	Х	X	Х	Х	Х	Х	Х
1-Methylnaphthalen e 90-12-0 (1-5)	Х	X	X	Х	X		Х	Х
Naphthalene 91-20-3 ( 1-5 )	Х	Х	X	Х	Х	Х	Х	Х

#### Mexico - Grade

Slight risk, Grade 1

### CANADA

#### WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class

D2A - Very toxic materials



# **16. OTHER INFORMATION**

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

\*Indicates a chronic health hazard.

Revision date: Revision note 2015-04-20 (M)SDS sections updated

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