### SAFETY DATA SHEET SHARK® EW HERBICIDE

SDS #: 6310-A

**Revision date: 2016-05-26** 

Format: NA Version 1.03



### 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

Herbicide Recommended Use:

**Restrictions on Use:** Use as recommended by the label

Manufacturer Address

**FMC** Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

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

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### GHS Label elements, including precautionary statements

### **EMERGENCY OVERVIEW**

### Danger

### **Hazard Statements**

H304 - May be fatal if swallowed and enters airways

H351 - Suspected of causing cancer



#### **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.

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

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Slightly combustible. May support combustion at elevated temperatures.

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

Control parameters

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Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico	
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm	-	-	-	
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm	-	-	-	
Naphthalene (91-20-3)	TWA: 10 ppm	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup>	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 15 ppm	Mexico: TWA 10 ppm Mexico: TWA 50 mg/m³ Mexico: STEL 15 ppm Mexico: STEL 75 mg/m³	
			STEL: 75 mg/m <sup>3</sup>	Wexies. OTLL 75 mg/m	
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta	
2-Methylnaphthalene (91-57-6)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm	-	
			Skin		
Propylene glycol (57-55-6)	-	-	TWA: 10 mg/m³ aerosol only  TWA: 50 ppm aerosol and vapor  TWA: 155 mg/m³	-	
			aerosol and vapor		
1-Methylnaphthalene (90-12-0)	TWA: 0.5 ppm Skin	-	TWA: 0.5 ppm	-	
			Skin		
Naphthalene (91-20-3)	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m³ STEL: 15 ppm STEL: 79 mg/m³	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m³ STEL: 15 ppm STEL: 79 mg/m³ Skin	

### **Appropriate engineering controls**

Apply technical measures to comply with the occupational exposure limits. When working in **Engineering measures** 

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.

Clean water should be available for washing in case of eye or skin contamination. Wash Hygiene measures

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

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Appearance Liquid Off-white

Physical StateLiquidColorOff-whiteOdorSolvent

Odor threshold No information available

oH 4.29

Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point 104 °C / 219 °F Seta Closed Cup

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No information available
No information available
No information available

Density 8.80 lb/gal

Specific gravity No information available No information available Water solubility Solubility in other solvents No information available **Partition coefficient** No information available No information available **Autoignition temperature Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available No information available **Explosive properties** No information available **Oxidizing properties** Molecular weight No information available **Bulk density** No information available

### 10. STABILITY AND REACTIVITY

**Reactivity** None under normal use conditions

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None und

None under normal processing.
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** 

**Hazardous polymerization** 

 $\begin{array}{lll} \textbf{LD50 Oral} & 4077 & \text{mg/kg (rat)} \\ \textbf{LD50 Dermal} & > 4000 & \text{mg/kg (rat)} \\ \end{array}$ 

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

**Symptoms** 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

the liver in animal studies.

Mutagenicity Carfentrazone-ethyl: Not genotoxic in laboratory studies.

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
Naphthalene	A3	Group 2B	Reasonably Anticipated	X
91-20-3				

#### 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 (128639-0	2-1)			
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	Daphnia	>9.8	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

Persistence and degradability Non-persistent. Readily hydrolyzed. Not readily biodegradable.

**Bioaccumulation** The substance does not have a potential for bioconcentration.

Mobility Mobility in soil: Not relevant.

## 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

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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 Classification below is only applicable when shipped by vessel and is not applicable when

shipped by road or rail only.

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group III

Marine Pollutant Carfentrazone-ethyl .

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl,

Naphthalene), 9, PG III, Marine Pollutant

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group

Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl,

Naphthalene), 9, PG III

IMDG/IMO

UN/ID no UN3082

**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group III
EmS No. F-A, S-F

Marine Pollutant Carfentrazone-ethyl

**Description** 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
Xylenes 1330-20-7	100 lb			X
Naphthalene 91-20-3	100 lb	X	Х	X

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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
Xylenes	100 lb	
1330-20-7	45.4 kg	
Naphthalene	100 lb	
91-20-3	45.4 kg	

#### 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	X		
Propylene glycol 57-55-6	X		Х
1-Methylnaphthalene 90-12-0	X	X	Х
Naphthalene 91-20-3	X	X	Х

### **International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Carfentrazone-ethyl 128639-02-1					Х			
Naphtha (petroleum), heavy aromatic 64742-94-5	X	Х	X	Х	X	X	Х	X
2-Methylnaphthalene 91-57-6	Х	Х	X	Х	Х		Х	Х
Propylene glycol 57-55-6	Х	Х	X	Х	Х	X	Х	Х
1-Methylnaphthalene 90-12-0	Х	Х	Х	Х	Х		Х	Х
Naphthalene 91-20-3	Х	Х	Х	Х	Х	Х	Х	Х

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Mexico - Grade

Slight risk, Grade 1

Chemical name	Carcinogen Status	Mexico
Naphthalene		Mexico: TWA 10 ppm
·		Mexico: TWA 50 mg/m <sup>3</sup>
		Mexico: STEL 15 ppm
		Mexico: STEL 75 mg/m <sup>3</sup>

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	
Xylenes	1000	1000 kg/yr	
	5000 kg/yr		

#### **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

<sup>\*</sup>Indicates a chronic health hazard.

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Reason for revision: (M)SDS sections updated

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End of Safety Data Sheet