



Conforms to HazCom 2012/United States

SDS

Stingray

# SAFETY DATA SHEET



# Stingray

## Aquatic Herbicide

### Section 1. Identification

**GHS product identifier**                      Stingray Aquatic Herbicide

**Other means of identification**                      : Not available.

**EPA Registration No.**                      : 279-3279-67690

#### Recommended use of the chemical and restrictions on use

**Recommended Use:**                      Aquatic herbicide

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

**Manufacturer Address**                      : SePRO Corporation  
11550 North Meridian Street  
Suite 600  
Carmel, IN 46032 U.S.A.  
Tel: 317-580-8282  
Toll free: 1-800-419-7779  
Fax: 317-580-8290  
Monday - Friday, 8am to 5pm E.S.T.  
[www.sepro.com](http://www.sepro.com)

**Emergency telephone number**                      INFOTRAC - 24-hour service 1-800-535-5053

The following recommendations for exposure controls and personal protection are intended for the manufacture, formulation and packaging of this product. For applications and/or use, consult the product label. The label directions supersede the text of this Safety Data Sheet for application and/or use.

### Section 2. Hazards identification

#### Classification

#### OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 191 0. 1200)

Carcinogenicity    Category 2  
Aspiration toxicity    Category 1

#### 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

**Section 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.

**Section 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.



<b>Skin Contact:</b>	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.
<b>Inhalation:</b>	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.
<b>Ingestion:</b>	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. 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 induce vomiting or give anything by mouth to an unconscious person.
<b>Most Important symptoms and effects, both acute and delayed:</b>	Central nervous system effects. Gastrointestinal effects.
<b>Indication of immediate medical attention and special treatment needed, if necessary:</b>	Treatment is symptomatic and supportive. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

## Section 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:** Not sensitive.

**Sensitivity to Static Discharge** Not sensitive.

**Protective equipment and precautions for firefighters:** Wear self-contained breathing apparatus and protective suit.

## Section 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.

**Section 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.

**Section 8. Exposure controls/personal protection**

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
2-Methylnaphthalene 91-57-6	S* TWA: 0.5 ppm	-	-	-
1-Methylnaphthalene 90-12-0	S* TWA: 0.5 ppm	-	-	-
Naphthalene 91-20-3	S* 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 STEL: 75 mg/m <sup>3</sup>	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	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/m <sup>3</sup> (aerosol only)  TWA: 50 ppm (aerosol vapor)  TWA: 155 mg/m <sup>3</sup> (aerosol only)	-
1-Methylnaphthalene 90-12-0	TWA: 0.5 ppm	-	TWA: 0.5 ppm Skin	-
Naphthalene 91-20-3	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 mg/m <sup>3</sup>	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 10 ppm TWA: 52 mg/m <sup>3</sup> STEL: 15 ppm STEL: 79 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:** This product does not cause significant eye irritation or eye toxicity requiring special protection. Where there is significant potential for eye contact, wear chemical goggles and have eye flushing equipment available.
- Skin and Body Protection:** Wear long-sleeved shirt, long pants, socks, and shoes.
- Hand Protection:** Waterproof 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.

**Section 9. Physical and chemical properties**

**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid, Off-white
<b>Physical State</b>	Liquid
<b>Color</b>	Off-white
<b>Odor</b>	Solvent
<b>Odor threshold</b>	No information available
<b>pH</b>	4.3
<b>Melting point/freezing point</b>	Not applicable
<b>Boiling Point/Range</b>	No information available
<b>Flash point</b>	104 °C / 219 °F Seta Closed Cup
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Density</b>	8.80 lb/gal
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	No information available
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	8.80 lb/gal

## Section 10. Stability and reactivity

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)

## Section 11. Toxicological information

Product Information	
LD50 Oral	Similar formulation: 4077 mg/kg (rat)
LD50 Dermal	Similar formulation: > 4000 mg/kg (rat)
LC50 Inhalation	Similar formulation: > 6.31 mg/L (4-hr) (rat)
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	<b>as well as chronic effects from short and long-term exposure</b>
Chronic toxicity	Effects are expected to be similar to those that are seen with acute toxicity. Chronic exposure to aromatic hydrocarbons may cause headaches, dizziness, loss of sensations or feelings (such as numbness), and liver and kidney damage. Naphthalene causes cataracts in humans, rats, rabbits and mice. It has been classified as potential carcinogen based on animal data.
Mutagenicity	Carfentrazone-ethyl : Not genotoxic in animal studies.
Carcinogenicity	Carfentrazone-ethyl : Did not show carcinogenic effects in animal experiments. Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH). 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.
Target organ effects	Carfentrazone-ethyl : Red blood cell reduction can occur due to hemoglobin biosynthesis inhibition. Accumulation of precursors of hemoglobin may lead to secondary toxicity to liver and other organs.
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**Naphthalene  
91-20-3**ACGIH**

A3

**SDS  
IARC**

Group 2B

**NTP**

Reasonably Anticipated

**Stingray  
OSHA**

X

**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

## Section 12. Ecological information

**Ecotoxicity****Carfentrazone-ethyl  
(128639-02-1)**

Active Ingredients	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

## Section 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.

## Section 14. Transport information

**DOT** This material is not a hazardous material as defined by U.S. Department of Transportation at 49 CFR Parts 100 through 185.**IDG** The "Marine Pollutant" marking is only applicable when shipped by vessel, and is not applicable when shipped only by road or rail in Canada.



**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** III  
**Marine Pollutant** Carfentrazone-ethyl  
**Description** UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*  
 (Carfentrazone-ethyl, Naphthalene), 9, PG III, Marine Pollutant

**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

**Section 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 report 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

**Clear 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	SDS CWA - Toxic Pollutants	CWA - Priority Pollutants	Stingray CWA - Hazardous Substances
Naphthalene - 91-20-3	100 lb	X	X	X

**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.

**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		X
Naphthalene 91-20-3	X	X	X
1-Methylnaphthalene 90-12-0	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)
Carfentrazone-ethyl 128639-02-1 (21.3)					X			
Naphtha (petroleum), heavy aromatic 64742-94- 5 (20-30)	X	X	X	X	X	X	X	X



**SDS**

**Stingray**

2-								
Methylnaphthalene 91-57-6 (1-5)	X	X	X	X	X		X	X
Propylene glycol 57- 55-6 (1-5)	X	X	X	X	X	X	X	X
1-								
Methylnaphthalene 90-12-0 (1-5)	X	X	X	X	X		X	X
Naphthalene 91-20- 3 (1-5)	X	X	X	X	X	X	X	X

**Mexico – Grade** No known effect based on information supplied

**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



**Section 16. Other information**

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

*\*Indicates a chronic health hazard.*

**History**

**Date of issue:** 08/12/15

**Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.