Safety Data Sheet



Revision Date 26-Jun-2015

Version 2

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product name	Sierra Marine Fogging Oil
Other means of identification	10.0550.0
Product Code(s)	18-9550-0
Synonyms	No information available
Recommended use of the chemical	and restrictions on use
Recommended Use	Aerosol.
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Details of the supplier of the safety Distributor	data sheet
	data sheet
Distributor	data sheet_
Distributor Sierra International	data sheet_
Distributor Sierra International 1 Sierra Place	<u>data sheet</u>
Distributor Sierra International 1 Sierra Place Litchfield, IL 62056	<u>data sheet</u>
Distributor Sierra International 1 Sierra Place Litchfield, IL 62056 Tel: 1-217-324-9487	<u>data sheet</u> 618-542-5431
Distributor Sierra International 1 Sierra Place Litchfield, IL 62056 Tel: 1-217-324-9487 Emergency telephone number Company Phone Number	
Distributor Sierra International 1 Sierra Place Litchfield, IL 62056 Tel: 1-217-324-9487 Emergency telephone number	618-542-5431

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

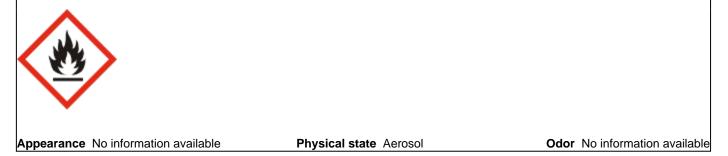
FLAMMABLE AEROSOLS	Category 1
	Outegory

Label elements

EMERGENCY OVERVIEW

DANGER

Hazard statements H222 - Extremely flammable aerosol



Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use

Precautionary Statements - Storage

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

Hazards not otherwise classified (HNOC) Other information

• May be harmful in contact with skin

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %	Trade secret
Petroleum distillates, hydrotreated heavy naphthenic	64742-52-5	68	*
Butane	106-97-8	22	*
Propane	74-98-6	8	*
Petroluem Oil	VARIOUS	2	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.		
Skin contact	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention. Get medical attention if irritation develops and persists.		
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.		
Ingestion	Clean mouth with water and afterwards drink plenty of water.		
Most important symptoms and effe	Most important symptoms and effects, both acute and delayed		
Symptoms	No information available.		
Indication of any immediate medical attention and special treatment needed			
Notes to Physician	Treat symptomatically.		
5. FIRE-FIGHTING MEASURES			

Suitable extinguishing media

Foam. Water spray or fog. Carbon dioxide (CO₂). Dry chemical.

Small Fires	Always use personal safety equipment. Follow appropriate personal safety procedures, and extinguishing media.
Large Fires	Contact emergency personnel.
Unsuitable extinguishing media	Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Containers may explode when heated. Overexposure to decomposition products may cause a health hazard.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

Personal precautions, protective equipment and emergency procedures

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

reisonal precautions, protective et	quipment and emergency procedures			
Personal protection	Ensure adequate ventilation. Avoid contact with eyes.			
For emergency responders	Ventilate the area. Remove all sources of ignition. Avoid breathing vapors or mists. Clean up area with absorbent material and place in closed containers for disposal.			
Environmental precautions				
Environmental precautions	See Section 12 for additional Ecological Information.			
Methods and material for containm	ent and cleaning up			
Methods for containment	Prevent further leakage or spillage if safe to do so.			
Methods for cleaning up	Pick up and transfer to properly labeled containers.			
	7. HANDLING AND STORAGE			
Precautions for safe handling				
Advice on safe handling	Ensure adequate ventilation. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition. Do not stick pin or any other sharp object into opening on top of can.			
Conditions for safe storage, including any incompatibilities				
Storage Conditions	Do not store above 49C. Do not puncture or incinerate cans. Do not stick pin, nail or any other sharp object into opening on top of can.			

Incompatible Products

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Butane	1000 ppm STEL	-	TWA: 800 ppm
106-97-8			TWA: 1900 mg/m ³
Propane	TWA: 1000 ppm	TWA: 1000 ppm	IDLH: 2100 ppm
74-98-6		TWA: 1800 mg/m ³	TWA: 1000 ppm
		-	TWA: 1800 mg/m ³

Appropriate engineering controls

Engineering Controls Showers Eyewash stations Ventilation systems. Individual protection measures, such as personal protective equipment **Eye/face Protection** Avoid contact with eyes. Wear safety glasses if contact is likely. Solvent resistant gloves required for prolonged or repeated contact. Skin and body protection **Respiratory protection** Avoid breathing vapors. Use with adequate ventilation equal to out of doors. In restricted areas, use approved chemical/ mechanical filters designed to remove a combination of particles and vapor. In confined areas, use approved air line type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits. Handle in accordance with good industrial hygiene and safety practice. **General Hygiene Considerations**

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance Color	Aerosol No information available No information available	Odor Odor threshold	No information available No information available
Property pH Melting point/freezing point Boiling Point/Range Flash point Evaporation rate Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Specific gravity Water solubility Solubility in other solvents Partition coefficient Autoignition temperature Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties	Values No information available No information available No information available -104.4 °C / -156 °F Slower than ether No information available 9.5 1.9 No information available Heavier than air 0.76 negligible No information available No information available	Remarks • Method	
Oxidizing properties	No information available		
Other information			
Softening point VOC Content Density Bulk density	No information available Approximately 30% by weight No information available No information available		
10. STABILITY AND REACTIVITY			

Reactivity No data available

Chemical stability

Stable.

Possibility of Hazardous Reactions

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes. Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

May produce fumes when heated to decomposition. Fumes may contain carbon monoxide and other toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	No data available
Inhalation	Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired coordination.
Eye contact	Avoid contact with eyes. Contact with eyes may cause irritation.
Skin contact	Repeated exposure may cause skin dryness or cracking. Prolonged contact may cause redness and irritation.
Insection	

Ingestion

Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Butane 106-97-8	-	-	= 658 g/m³(Rat)4 h
Propane 74-98-6	-	-	= 658 mg/L (Rat)4 h

Information on toxicological effects

Symptoms

No information available.

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

Irritation	May cause skin and eye irritation.
Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Petroleum distillates,	-	Group 1	-	Х
hydrotreated heavy				
naphthenic				
64742-52-5				

Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard No information available. No information available. No information available. No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

12. ECOLOGICAL INFORMATION

Ecotoxicity

32% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Petroleum distillates, hydrotreated heavy	-	5000: 96 h Oncorhynchus mykiss	
naphthenic		mg/L LC50	EC50
64742-52-5			

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Chemical name	Partition coefficient
Butane	<=2.8
106-97-8	
Propane	<=2.8
74-98-6	

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods	
Waste Disposal Method	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.

14. TRANSPORT INFORMATION

DOT

Regulated

UN-No	UN1950
Proper shipping name	Aerosols, flammable (Mixture)
UN-No	1950
Proper shipping name	Consumer commodity, ORM-D
Proper shipping name	Consumer commodity, ORM-D

15. REGULATORY INFORMATION

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
Australian Inventory of Chemical Substances

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	No
Chronic Health Hazard	No
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

U.S. 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
Butane	X	-	Х
106-97-8			
Propane	Х	-	Х
74-98-6			

U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION				
<u>NFPA</u>	Health hazards 1	Flammability 4	Instability 0	Physical and Chemical Hazards -
HMIS	Health hazards 1	Flammability 4	Physical hazards 0	Personal protection X
Issuing Date Revision Date Revision Note SDS sections updated 9	20-Jun-2014 26-Jun-2015			

Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS