

Safety Data Sheet

According to GB/T 16483-2008 and GB/T 17519-2013

Sea Foam Spray Top Engine Cleaner & Lube

Version 1.0

Issue date: 01/07/2022

Revision date: 01/07/2022

SDS Record Number: CSSS-TCO-010-151761

Section 1 Chemical Product and Company Identification

Chemical name: Sea Foam Spray Top Engine Cleaner & Lube

Additional identification: Not available

Product code: SS14CN

Identification of the product: See section 3

Relevant identified uses of the substance and uses advised against

Identified uses: Engine treatment/cleaner.

Uses advised against: Internal engine use only. Do not spray in atmosphere.

Details of the supplier of the safety data sheet

Name: Sea Foam International, Inc.

Address: 812 Burlington Drive, Suite 100 Bismarck, ND USA 58504

Contact person(E-mail): -

Telephone: +1(701)751-7363

Fax: -

Emergency telephone Number(24h): 0532-8388-9090

Section 2 Hazards Identification

Emergency Overview: Colorless aerosol with petroleum hydrocarbon odor. Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

GHS Classification:

Physical hazards	Aerosols	Category 1
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity (single exposure)	Category 3
	Aspiration hazard	Category 1
Environmental hazards	Not classified	

Label elements

Pictogram:



Signal Word(s): Danger

Hazard Statement: Extremely flammable aerosol
Pressurized container: may burst if heated
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause drowsiness or dizziness

Precautionary statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.

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Response: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Wear protective gloves. Wear eye protection/face protection.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor
IF ON SKIN: Wash with plenty water
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Call a POISON CENTER/doctor if you feel unwell.
Do NOT induce vomiting.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.

Storage: Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local regulations.

Disposal: Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

Physical and chemical hazards: May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness.

Health Hazards: The product has no obvious harm to the water environment.

Environmental hazards: This product has not been found to have other hazards which are outside the scope of GB30000.2-29.

Other hazards:

Section 3 Composition Information on Ingredients

Substance/Mixture/Article: Mixture

Ingredient(s):

Chemical Name	CAS No.	Concentration (%)
Hydrocarbon blend	-	65 - 85%
Isopropanol	67-63-0	10 - 20%
Carbon dioxide	124-38-9	2 - 5 %

Undisclosed ingredients include: 1) non-hazard ingredients, and 2) ingredients which are below the cut-off value required by Section 3.3 of GB / T 17519.

Section 4 First Aid Measures

In case of inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.

In case of skin contact: Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

In case of eyes contact: Immediately flush eyes with plenty of water for at least 15 minutes. Remove

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In case of ingestion:	contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms and effects, both acute and delayed:	Aspiration may cause pulmonary edema and pneumonitis. May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
To protect playing rescuer advice and the special hints to the doctor:	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
Indication of any immediate medical attention and special treatment needed:	Provide general supportive measures and treat symptomatically. In the event of shortness of breath, give oxygen. Keep the victim warm. Observe the patient. Symptoms may delay.

Section 5 Fire-fighting Measures

Extinguishing agent

Suitable extinguishing media:

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media:

Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards:

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides.

Special fire fighting methods and special protective actions for fire-fighters:

Firefighters should wear self-contained breathing apparatus, and wear full body fire service and extinguish fire in the windward direction. Remove the container from the fire to empty place as far as possible. Cool the container exposed to the fire with water and vent the vapors. Isolate the accident area, prohibit access to unrelated persons. Contain and handle fire water to prevent environmental pollution.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors/spray. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Environmental precautions:

Avoid release to the environment. In case of leakage into drainage system / aquatic environment, notify local authorities. Take measures to prevent further releases or spills while ensuring safety. Prevent spills from entering water, sewer, basement or limited space.

Methods and materials for containment and cleaning up:

Stop leak if you can do so without risk. Move the aerosol cans to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Eliminate all

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ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Pick up undamaged aerosol cans mechanically.

Precautions to prevent the occurrence of secondary hazards: Clean up spills immediately to prevent leaks again.

Section 7 Handling and Storage

Safe handling

Local and general ventilation:

Operation and disposal should be carried out in a place with local ventilation or general ventilation facilities.

Safety instructions:

Operators should follow the procedure and use the personal protective equipment recommended by the SDS section 8.

Precautions:

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. When using do not smoke. Protect containers from damage. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Avoid breathing mist/vapors/spray. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Storage

Suitable storage conditions:

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep away from heat, sparks and open flame. This material can accumulate static charge which may cause spark and become an ignition source. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in tightly closed container. Store in a well-ventilated place. Stored containers should be periodically checked for general condition and leakage.

Incompatible materials:

Strong oxidizing agents. Acids. Caustics.

Safe packaging materials:

Keep it in the original container.

Section 8 Exposure Controls / Personal Protection

Occupational exposure limits:

According to GBZ2.1,
Isopropanol (CAS#67-63-0): OELs (mg/m³): PC-TWA: 350, PC-STEL: 700
Carbon dioxide (CAS#124-38-9): OELs (mg/m³): PC-TWA: 9000, PC-STEL: 18000

Biological limits:

No standard has been established.

Engineering controls:

Ensure adequate ventilation. Make sure the workplace is equipped with a safe place to shower, clean eyes and body, and place for safe care.

Personal protection equipment

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Wear NIOSH approved respirator appropriate for airborne exposure at the point of use. Appropriate respirator selection should be made by a qualified professional.

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Hand protection:	Wear appropriate chemical resistant gloves.
Eye protection:	Wear safety glasses with side shields (or goggles). Face shield is recommended.
Skin and body protection:	Wear appropriate chemical resistant clothing.
Hygiene measures:	Avoid contact with eyes. Wash hands after handling. Do not eat and drink in the workplace.

Section 9 Physical and Chemical Properties

Appearance:	Colorless Aerosol
Odor:	Petroleum hydrocarbon
Odor threshold:	No data available
Molecular formula:	Not applicable
Molecular weight:	Not applicable
Melting point/freezing point (°C):	No data available
Boiling point, initial boiling point (°C):	82.2 °C
Density:	No data available
Relative density(H₂O=1):	0.8
Vapor pressure (20°C) (kPa):	80 - 90 psig
Partition coefficient (n-octanol/water):	No data available
Solubility in water:	Slightly soluble
Solubility in organic solvents:	No data available
Flash point (°C):	12.8 °C (Closed Cup)
Auto-ignition temperature (°C):	No data available
Flammability limit - lower (%):	No data available
Flammability limit - upper (%):	No data available
Decomposition temperature (°C):	No data available
Flammability (solid, gas):	No data available
Explosive properties:	Not explosive
Oxidizing properties:	Not oxidizing
Explosive limit - lower (%):	No data available
Explosive limit - upper (%):	No data available
pH value:	No data available
Viscosity (mPa · S):	No data available
Relative vapor density (air=1):	> 1
Relative evaporation rate (n-butyl acetate=1):	< 1
Heat of combustion:	34 kJ/g
VOC:	367 g/l

Section 10 Stability and Reactivity

Stability:	Material is stable under normal conditions.
Possibility of hazardous reactions:	No dangerous reaction known under conditions of normal use.
Conditions to avoid:	Incompatible materials. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point.
Incompatible materials:	Strong oxidizing agents. Acids. Caustics.
Hazardous decomposition products:	Carbon oxides.

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Section 11 Toxicological Information

Acute toxicity

Isopropanol (CAS#67-63-0):

LD50(Oral, Rat): 5.84 g/kg

LD50(Dermal, Rabbit): 16.4 mL/kg bw

LC50(Inhalation, Rat): Not available

Skin corrosion/Irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT- single exposure: May cause drowsiness or dizziness.

STOT-repeated exposure: Not classified

Aspiration hazard: May be fatal if swallowed and enters airways.

Section 12 Ecological Information

Ecotoxicity

Isopropanol (CAS#67-63-0):

LC50 (Fish, 96h) 9640 mg/L

EC50 (Daphnia, 48h) Not available

EC50 (Algae, 72h): Not available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13 Disposal Considerations

Residual waste

Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.

Contaminated packaging

Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.

Local disposal regulations

Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal sites.

Section 14 Transport Information

UN Number: UN1950

UN Proper shipping name: AEROSOLS

Transport hazard Class: 2.1

Packaging group: -

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Marine pollutant (yes/no): No

Transport special precautions:

- Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;
- Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;
- Do not package or transport with oxidant, food chemicals or others;
- Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;
- Keep away from fire, heat source and high temperature when stops on the way;
- Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;
- Prohibit humping in railway transportation;
- Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

15.Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

Name	Relevant Inventories	Listed Or Not
Measures on Safety Management of Hazardous Chemicals	The Catalogue of Hazardous Chemicals in China	Hydrocarbon blend unknown, Isopropanol, Carbon dioxide Listed
	The First Batch of Key Regulatory List of Hazardous Chemicals	Hydrocarbon blend unknown, Isopropanol, Carbon dioxide not listed
Measures on New Substance Environmental Management	The Inventory of Existing Chemical Substance in China	Hydrocarbon blend unknown, Isopropanol, Carbon dioxide listed
Provisions on Environmental Management of First Import and Export of Toxic Chemicals	The China Strictly Restricted List of Import and Export of Toxic Chemicals	Hydrocarbon blend unknown, Isopropanol, Carbon dioxide not listed

Section 16 Other Information

Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

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The information in this Safety Data Sheet (SDS) applies only to the products specified and does not apply to mixtures containing this product with other substances, unless otherwise specified. This Safety Data Sheet (SDS) is based on information currently available in all its aspects and will not be held responsible for its long-term timeliness. This Safety Data Sheet (SDS) provides information about the safety of the product for the intended purpose only to appropriately trained personnel operating the product. Users of this SDS must make independent judgments on the suitability of this SDS for special conditions of use. Under special conditions of use, the SDS author will not be responsible for the damage caused by the use of this Safety Data Sheet (SDS). Each user of the product should read carefully the contents of this Safety Data Sheet (SDS) before proceeding. For more information to ensure correct evaluation, please contact the product supplier.

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