



SAFETY DATA SHEET

Applicable Authority: 29 C.F.R. § 1910.1200 (HazCom 2012)

Sea Foam Sales Company
510 North Chestnut Street
Chaska, MN, USA 55318

Sea Foam Concentrated Fuel Injector Cleaner
SDS Revision Date: 05/01/2019

SECTION 1. IDENTIFICATION

Product identifier used on the label : Sea Foam Concentrated Fuel Injector Cleaner

Product code(s) : IC5

Recommended use of the chemical and restrictions on use : Gasoline additive

Chemical family : Mixture

Name, address, and telephone number of the supplier : Sea Foam Sales Company
510 North Chestnut Street
Chaska, MN, USA 55318
T (952) 938-4811

Emergency Telephone Number : INFOTRAC - (800) 535-5053 (Within Continental US) (8-4:30pm CST);
+1 (352) 323-3500 (Outside US) NOTE: INFOTRAC emergency number is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.



SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture
GHS US classification
Skin Irrit. 2
Carc. 2
Repr. 2
Asp. Tox. 1

GHS Label elements, including precautionary statements
Hazard pictograms (GHS US)



Signal Word
DANGER

Hazard statement(s)
Causes skin irritation
Suspected of causing cancer
Suspected of damaging fertility or the unborn child
May be fatal if swallowed and enters airways

Precautionary statement(s)
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wash hands, forearms and face thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If exposed or concerned: Get medical advice/attention.
If swallowed: Immediately call a poison center or doctor.
Do NOT induce vomiting.
If on skin: Wash with plenty of water.
Take off contaminated clothing and wash it before reuse.
If skin irritation occurs: Get medical advice/attention.
Store locked up.
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Other Hazards which do not result in classification
No additional information available.

Unknown acute toxicity (GHS US)
Not applicable.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS #	Concentration (%)
Distillates, petroleum, hydrotreated heavy paraffinic	64742-54-7	60 – 70
Solvent naphtha, petroleum, light aromatic	64742-95-6	5 – 20
Polyolefin alkyl phenol alkyl amine	Proprietary	5 – 10
Benzene, 1,2,4-trimethyl	95-63-6	3 – 7
1,3,5-Trimethylbenzene	108-67-8	1 – 5
Xylenes (o-, m-, p- isomers)	1330-20-7	< 3
n-Propylbenzene	103-65-1	< 3
2-Ethylhexanol	104-76-7	< 3
1,2,3-Trimethylbenzene	526-73-8	< 3
Isopropylbenzene	98-82-8	< 3

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret.



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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- First-aid measures after inhalation* : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
- First-aid measures after skin contact* : IF ON SKIN: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact* : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion* : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects (acute and delayed)

- Symptoms/effects after inhalation* : May cause irritation to the respiratory tract.
- Symptoms/effects after skin contact* : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
- Symptoms/effects after eye contact* : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
- Symptoms/effects after ingestion* : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Immediate medical attention and special treatment, if necessary

- : Treat symptomatically. Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5. FIRE-FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media* : Water spray, fog, carbon dioxide, foam, dry chemical.
- Unsuitable extinguishing media* : Do not use a water jet since it may cause the fire to spread.

Specific hazards arising from the chemical

- Fire hazard* : Products of combustion may include, and are not limited to: oxides of carbon. Oxides of sulfur. Oxides of nitrogen.

Special protective equipment and precautions for fire-fighters

- Protection during firefighting* : Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- General measures* : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

Environmental precautions

- : Avoid release to the environment. Prevent further leakage or spillage. Keep away from drains, surface and ground-water and soil. Do not flush to sewer or allow to enter waterways.

Methods and material for containment and cleaning up

- For containment* : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.
- Methods for cleaning up* : Sweep or shovel spills into appropriate container for disposal. Provide ventilation.

Reference to other sections

- : For further information refer to section 8: "Exposure controls/personal protection"



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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Use only in well ventilated areas.

Handling temperature : ≤ 70 °C (158 °F)

Hygiene measures : Take off contaminated clothing and wash it before reuse. Wash hands, forearms and face thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage conditions : Keep out of the reach of children. Keep container tightly closed. Store locked up. Store in a cool, well-ventilated place. Keep container closed when not in use. Keep away from strong oxidizers.

Storage temperature : ≤ 40 °C (104 °F)

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)		
Not applicable		
Solvent naphtha, petroleum, light aromatic (64742-95-6)		
Not applicable		
Polyolefin alkyl phenol alkyl amine (Proprietary)		
Not applicable		
Benzene, 1,2,4-trimethyl- (95-63-6)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
1,3,5-Trimethylbenzene (108-67-8)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm
n-Propylbenzene (103-65-1)		
Not applicable		
Xylenes (o-, m-, p- isomers) (1330-20-7)		
ACGIH	Local name	Xylene
ACGIH	ACGIH TWA (ppm)	100 ppm
ACGIH	ACGIH STEL (ppm)	150 ppm
ACGIH	Remark (ACGIH)	URT & eye irr; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	435 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	100 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA
2-Ethylhexanol (104-76-7)		
Not applicable		
Isopropylbenzene (98-82-8)		
ACGIH	Local name	Cumene
ACGIH	ACGIH TWA (ppm)	50 ppm



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ACGIH	Remark (ACGIH)	Lung cancer; liver and lung dam; A2 (Suspected Human Carcinogen: Human data are accepted as adequate in quality but are conflicting or insufficient to classify the agent as a confirmed human carcinogen; OR, the agent is carcinogenic in experimental animals at dose(s), by route(s) of exposure, at site(s), of histologic type(s), or by mechanism(s) considered relevant to worker exposure. The A2 is used primarily when there is limited evidence or carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals with relevance to humans)
ACGIH	Regulatory reference	ACGIH 2017
OSHA	OSHA PEL (TWA) (mg/m ³)	245 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	50 ppm
OSHA	Limit value category (OSHA)	prevent or reduce skin absorption
OSHA	Regulatory reference (US-OSHA)	OSHA
IDLH	US IDLH (ppm)	900 ppm (10% LEL)
NIOSH	NIOSH REL (TWA) (mg/m ³)	245 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	50 ppm
NIOSH	US-NIOSH chemical category	Potential for dermal absorption
1,2,3-Trimethylbenzene (526-73-8)		
NIOSH	NIOSH REL (TWA) (mg/m ³)	125 mg/m ³
NIOSH	NIOSH REL (TWA) (ppm)	25 ppm

Appropriate engineering controls : Use adequate ventilation to keep oil mist below applicable standard.

Environmental exposure controls : Avoid release to the environment.

Individual protection measures/Personal protective equipment

Hand protection : Neoprene or nitrile rubber gloves. Wear suitable gloves resistant to chemical penetration. Wear insulated gloves when handling hot product.

Eye protection : Safety glasses or goggles are recommended when using product.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Where mineral oil mists are generated – use full face respirator with organic vapor cartridge. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Other information : Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

Liquid.

Appearance:

Pale yellow liquid.

Color:

Typical odor.

Odor:

Pale yellow.

Odor threshold:

No data available.

pH:

No data available.

Melting point:

No data available.

Vapor pressure:

0.0017 kPa @ 25°C / 68°F (.013 torr @ 25°C/68°F)

Relative vapor density at 20 °C:

No data available.

Relative density:

No data available.

Solubility:

Insoluble in water. Alcohols. Soluble in organic solvents.

Partition coefficient n-octanol/water:

No data available.

Auto-ignition temperature:

No data available.

Decomposition temperature:

No data available.



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Freezing point:

No data available.

Boiling point:

No data available.

Flash point:

> 93 °C / 199°F (estimated based upon components)

Relative Evaporation rate (butyl acetate=1):

0

Flammability (solid, gas):

No data available.

Viscosity, kinematic:

≈ 20 mm²/s @ 40 °C

Viscosity, dynamic:

No data available.

Explosion limits:

No data available.

Explosive properties:

No data available.

Oxidizing properties:

No data available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: No dangerous reactions known under normal conditions of use.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat and open flame. Incompatible materials.
Incompatible materials	: Strong oxidizers. Strong reducing agents.
Hazardous decomposition products	: May include, and are not limited to: oxides of carbon. Smokes. Oxides of sulfur. Oxides of nitrogen.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

<i>Acute toxicity (oral)</i>	: Not classified
<i>Acute toxicity (dermal)</i>	: Not classified
<i>Acute toxicity (inhalation)</i>	: Not classified

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)

LD50 oral rat	> 15 g/kg
LD50 dermal rabbit	> 5000 mg/kg

Solvent naphtha, petroleum, light aromatic (64742-95-6)

LD50 oral rat	8400 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	3400 ppm/4h

Benzene, 1,2,4-trimethyl- (95-63-6)

LD50 oral rat	3280 mg/kg
LD50 dermal rabbit	> 3160 mg/kg
LC50 inhalation rat	18 g/m ³ (Exposure time: 4 h)
ATE US (gases)	4500 ppmV/4h
ATE US (dust, mist)	1.5 mg/l/4h

1,3,5-Trimethylbenzene (108-67-8)

LC50 inhalation rat	24 g/m ³ (Exposure time: 4 h)
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n-Propylbenzene (103-65-1)

LD50 oral rat	6040 mg/kg
LC50 inhalation rat	65000 ppm (Exposure time: 2 h)

Xylenes (o-, m-, p- isomers) (1330-20-7)

LD50 oral rat	3500 mg/kg
LD50 dermal rabbit	> 4350 mg/kg
LC50 inhalation rat	29.08 mg/l/4h
ATE US (dermal)	1700 mg/kg body weight
ATE US (vapors)	27.57 mg/l/4h



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2-Ethylhexanol (104-76-7)	
LD50 dermal rabbit	1980 mg/kg
LD50 oral rat	3730 mg/kg
LC50 inhalation rat	> 227 ppm (Exposure time: 6 h)
Isopropylbenzene (98-82-8)	
LD50 oral rat	1400 mg/kg
LD50 dermal rabbit	12300 µl/kg
LC50 inhalation rat	> 3577 ppm (Exposure time: 6 h)

Skin corrosion/irritation : Causes skin irritation.
 Serious eye damage/irritation : Not classified.
 Respiratory or skin sensitization : Not classified.
 Germ cell mutagenicity : Not classified.
 Carcinogenicity : Suspected of causing cancer.

Xylenes (o-, m-, p- isomers) (1330-20-7)	
IARC group	3 - Not classifiable

Isopropylbenzene (98-82-8)	
IARC group	2B - Possibly carcinogenic to humans
National Toxicology Program (NTP) Status	Evidence of Carcinogenicity, Reasonably anticipated to be Human Carcinogen
In OSHA Hazard Communication Carcinogen list	Yes

Reproductive toxicity : Suspected of damaging fertility or the unborn child.
 Specific target organ toxicity – single exposure : Not classified.

Solvent naphtha, petroleum, light aromatic (64742-95-6)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Xylenes (o-, m-, p- isomers) (1330-20-7)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure : Not classified.
 Aspiration hazard : May be fatal if swallowed and enters airways.
 Viscosity, kinematic : ≈ 20 mm²/s @ 40 °C
 Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
 Symptoms/effects after skin contact : Causes skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.
 Symptoms/effects after eye contact : May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
 Symptoms/effects after ingestion : May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.
 Other information : Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Ecology - general : May cause long-term adverse effects in the aquatic environment.

Distillates, petroleum, hydrotreated heavy paraffinic (64742-54-7)	
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Solvent naphtha, petroleum, light aromatic (64742-95-6)	
LC50 fish 1	9.22 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
Benzene, 1,2,4-trimethyl- (95-63-6)	
LC50 fish 1	7.19 - 8.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	6.14 mg/l (Exposure time: 48 h - Species: Daphnia magna)
1,3,5-Trimethylbenzene (108-67-8)	
LC50 fish 1	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)



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Xylenes (o-, m-, p- isomers) (1330-20-7)	
LC50 fish 1	13.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	3.82 mg/l (Exposure time: 48 h - Species: water flea)
LC50 fish 2	2.661 - 4.093 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 2	0.6 mg/l (Exposure time: 48 h - Species: Gammarus lacustris)
2-Ethylhexanol (104-76-7)	
LC50 fish 1	32 - 37 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])
EC50 Daphnia 1	39 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	> 7.5 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
Isopropylbenzene (98-82-8)	
LC50 fish 1	6.04 - 6.61 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	0.6 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	4.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])
EC50 Daphnia 2	7.9 - 14.1 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Persistence and degradability of Sea Foam Concentrated Fuel Injector Cleaner not established.

Bioaccumulative potential of Sea Foam Concentrated Fuel Injector Cleaner not established.

Benzene, 1,2,4-trimethyl- (95-63-6)	
Partition coefficient n-octanol/water	3.63
n-Propylbenzene (103-65-1)	
Partition coefficient n-octanol/water	3.68
Xylenes (o-, m-, p- isomers) (1330-20-7)	
BCF fish 1	0.6 - 15
Partition coefficient n-octanol/water	2.77 - 3.15
2-Ethylhexanol (104-76-7)	
Partition coefficient n-octanol/water	3.1
Isopropylbenzene (98-82-8)	
BCF fish 1	35.5
Partition coefficient n-octanol/water	3.7

Mobility in soil : No additional information available.

Other adverse effects : No other effects known.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Empty containers or liners may retain some product residues.

SECTION 14. TRANSPORTATION INFORMATION

Department of Transportation (DOT) : In accordance with DOT
: Not regulated

SECTION 15. REGULATORY INFORMATION

US Federal regulations : All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

International regulations : No additional information available

US State regulations

WARNING: : This product can expose you to Benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16. OTHER INFORMATION

Disclaimer: Sea Foam Sales Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.