

SAFETY DATA SHEET

Revision Date 1-Aug-2018

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier Product Name

FM 1140-ES Fiberglass Boat Cleaner

UN/ID No Product Code UN3264 1140-ES

Recommended Use of the Chemical and Restrictions on UseRecommended UseCleaning agent.

Details of the Supplier of the Safety Data Sheet

Supplier Address Delta Foremost Chemical Corporation 3915 Air Park St. Memphis, Tennessee 38118

Emergency Telephone Number

Company Phone Number Emergency Telephone (901) 363-4340 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Category 3
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category B
Serious Eye Damage/Eye Irritation	Category 1
Corrosive to Metals	Category 1

Signal Word DANGER

Hazard Statements

Toxic if swallowed, inhaled, or in contact with skin Causes severe skin burns and eye damage May cause respiratory irritation May be corrosive to metals



Appearance Light yellow clear liquid

Physical State Liquid

Odor Acid odor

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Wear protective gloves/protective clothing/eye protection/face protection Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician for all exposures.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Harmful to aquatic life with long lasting effects Harmful to aquatic life

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrogen fluoride	7664-39-3	Proprietary
Hydrochloric Acid	7647-01-0	Proprietary

Product contains a proprietary mixture of ingredients.

4. FIRST AID MEASURES

First Aid Measures

General Advice Provide this SDS to medical personnel for treatment. Hydrofluoric (HF) acid burns require immediate and specialized first aid and medical treatment. Symptoms may be delayed up to 24 hours depending on the concentration of HF. After decontamination with water, further damage can occur due to penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion as well as the effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases. More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician is experienced in this technique, due to the potential for tissue injury from increased pressure. Absorption can readily occur through the subungual areas and should be considered when undergoing decontamination. Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium carbonate tablets or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias should be monitored for, since they can occur after exposure. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **Eye Contact** Flush with plenty of water for at least 15 minutes. See physician immediately.

Skin Contact	Immediately flush with large amounts of water while removing contaminated clothing and shoes, paying particular attention to skin under nails. Follow by applying iced alcoholic or aqueous benzalkonium chloride solution. Get medical attention immediately.
Inhalation	Remove to fresh air. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Drink large quantities of water without delay. Drink milk or milk of magnesia. Get medical attention immediately.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms EYES: Causes severe irritation and painful burning of the eyes and eyelids. If not quickly removed, may cause permanent visual impairment.

INGESTION: It causes severe burns of the mucous membranes of the mouth, esophagus, and stomach. Causes intense thirst, nausea, and vomiting.

Burning and/or irritation to eyes and skin. Irritation and corrosive burns to mouth, throat, and stomach. May cause irritation to the mucous membranes and upper respiratory tract.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Foam, carbon dioxide or dry chemical extinguisher, or water.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Product is not flammable.

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Ventilate affected area.

Environmental Precautions See Section 12 for additional ecological information.

Methods and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so. Contain and absorb with suitable absorbent for disposal.
Methods for Cleaning Up	Soak up with inert absorbent material. Reclaim spilled material into approved container for proper disposal. Remaining material may be neutralized. For waste disposal, see section 13 of the SDS. Neutralize with a lime or soda ash and flush area with large amounts of water.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Do not breathe vapors or spray mist. Use only in well-ventilated areas. Do not eat, drink or smoke when using this product.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up.
Packaging Materials	Do not use glass containers.
Incompatible Materials	Bases, Strong oxidizing agents. Reacts with soft metals and forms hydrogen gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrogen fluoride	TWA: 0.5 ppm F TWA: 2.5 mg/m ³	TWA: 3 ppm F TWA: 2.5 mg/m ³ F	IDLH: 30 ppm
7664-39-3	F	TWA: 2.5 mg/m ³ dust	Ceiling: 6 ppm 15 min
	S*	(vacated) TWA: 3 ppm F	Ceiling: 5 mg/m ³ 15 min
	Ceiling: 2 ppm F	(vacated) TWA: 2.5 mg/m ³	TWA: 3 ppm
		(vacated) STEL: 6 ppm F	TWA: 2.5 mg/m ³
Hydrochloric Acid	STEL: 2 ppm	TWA: 5 ppm	TWA: 5 ppm
7647-01-0		STEL: 7 mg/m ³	STEL: 7 mg/m ³

Appropriate Engineering Controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Showers, Eyewash stations, Ventilation systems.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection	Goggles or face shield.
Skin and Body Protection	Wear protective Neoprene™ gloves, Rubber gloves.
Respiratory Protection	Use solvent type mask if continued exposure.
Constal Hygiana Consideration	Do not not drink or amole when using this product Me

General Hygiene Considerations Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State Appearance Color	Liquid Light yellow clear liquid Light yellow	Odor Odor Threshold	Acid odor Not determined
<u>Property</u> pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits	<u>Values</u> 2.0 – 3.0 Not available 98.88 °C / 210 °F None Not available Not determined Not listed	<u>Remarks • Method</u>	

Lower Flammability Limit	Not listed	
Vapor Pressure	Unknown	
Vapor Density	Unknown	
Specific Gravity	1.040	(1=Water)
Water Solubility	Soluble in water	. ,
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition Temperature	Not determined	
Decomposition Temperature	Not determined	
Kinematic Viscosity	Not determined	
Dynamic Viscosity	Not determined	
Explosive Properties	Not determined	
Oxidizing Properties	Not determined	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions. Will react with incompatible materials.

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

Keep out of reach of children.

Incompatible Materials

Bases, Strong oxidizing agents. Reacts with soft metals and forms hydrogen gas.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information		
	Eye Contact	Causes severe eye damage.
	Skin Contact	Causes severe skin burns, Toxic in contact with skin.
	Inhalation	Toxic if inhaled. May cause irritation to the mucous membranes and upper respiratory tract.
	Ingestion	Toxic if swallowed. Can cause irritation and corrosive burns to mouth, throat, and stomach.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrogen fluoride	-	-	= 850 mg/m ³ (Rat) 1 h
7664-39-3			= 1276 ppm (Rat) 1 h

Information on Physical, Chemical and Toxicological Effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen fluoride 7664-39-3	-	660: 48 h Leuciscus idus mg/L LC50	-	270: 48 h Daphnia species mg/L EC50
Hydrochloric Acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50	-	-

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

<u>Mobility</u>

Chemical Name	Partition Coefficient
Hydrogen fluoride	-1.4
7664-39-3	

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Hydrochloric Acid	Corrosive
7647-01-0	Toxic
	Reactive

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Hydrogen fluoride	U134			U134
7664-39-3				

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT	
UN/ID No	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrofluoric acid)
Hazard Class	8
Packing Group	II
Reportable Quantity (RQ)	100lbs
IATA	
UN/ID No	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrofluoric acid)
Hazard Class	8
Packing Group	II
IMDG	
UN/ID No	UN3264
Proper Shipping Name	Corrosive liquid, acidic, inorganic, n.o.s. (Hydrofluoric acid)
Hazard Class	8
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15. REGULATORY INFORMATION

International Inventories Not Determined

Packing Group

US Federal Regulations

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrogen fluoride	100 lb	100 lb	RQ 100 lb final RQ
7664-39-3			RQ 45.4 kg final RQ

<u>SARA 313</u>

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrogen fluoride	7664-39-3	Proprietary	1.0

CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrogen fluoride 7664-39-3	100 lb			Х

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrogen fluoride 7664-39-3	Х	X	Х
Hydrochloric Acid 7647-01-0	Х	X	Х

16. OTHER INFORMATION

<u>NFPA</u> HMIS	Health Hazards 3 Health Hazards 3	Flammability 0 Flammability 0	Instability 0 Physical Hazards 0	Special Hazards Not determined Personal Protection Not determined
Revision Date Revision Note	1-Aug-20 New forr			

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet