



SAFETY DATA SHEET

Revision Date 25-Oct-2016

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Foremost 627 Ice-Off

UN/ID No UN1993

Product Code 627

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Cleaning 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 (901) 363-4340

Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Serious Eye Damage/Eye Irritation	Category 2B
Acute Toxicity (Oral)	Category 5
Flammable liquids	Category 3

Signal Word

WARNING

Hazard Statements

Causes eye irritation
Flammable liquid and vapor
May be harmful if swallowed



Appearance Clear green liquid

Physical State Liquid

Odor Solvent

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray
 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Wear protective gloves/protective clothing/eye protection/face protection
 Keep cool

Precautionary Statements - Response

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
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 In case of fire: Use CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Isopropyl Alcohol	67-63-0	Proprietary
Ethylene Glycol	107-21-1	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.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
Inhalation	Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist.
Ingestion	Do NOT induce vomiting. Immediate medical attention is required.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms	Nausea, dizziness, irritation to skin and/or mucous membranes.
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Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Alcohol resistant foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media Water may be ineffective, but can be used to protect firemen and cool containers.

Specific Hazards Arising from the Chemical

Flammable/combustible material. May be ignited by heat, sparks or flames. Vapors may travel to source of ignition and flash back. Container may explode in heat or fire.

Hazardous Combustion Products Carbon monoxide.

Sensitivity to Static Discharge Flammable mixtures of this product are readily ignited even by static discharge.

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. Water may be used to cool closed containers to prevent pressure buildups and possible ignition or explosion when exposed to extreme heat. Use air-supplied equipment for enclosed areas.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). In case of a spill, clear the affected area and protect people. Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and Material for Containment and Cleaning Up

Methods for Containment For small spills, absorb on polypads or other suitable non-reactive absorbent materials. For large spills, dike far ahead of spill for later disposal. Absorb with materials such as: non-combustible material, cat litter / sand.

Methods for Cleaning Up Use clean non-sparking tools to collect absorbed material. Sweep up absorbed material and shovel into suitable containers for disposal. Discard any product, residue, disposable container or liner in full compliance with federal, state, and local regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Ensure containers are properly labeled. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Wash face, hands, and any exposed skin thoroughly after handling. When using do not eat, drink or smoke. Keep containers closed when not in use. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Ground all equipment to prevent buildup of static charge. Avoid breathing vapors or mists.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Oxidizing materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 6763-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ STEL: 500 ppm STEL: 1,225 mg/m ³	IDLH: 500 ppm IDLH: 1,225 mg/m ³ TWA: 400 ppm TWA: 980 mg/m ³
Ethylene Glycol 107-21-1	STEL: 100 ppm	-	-

Appropriate Engineering Controls

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

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Splash goggles or safety glasses.

Skin and Body Protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Respiratory Protection Solvent type mask.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Solvent
Appearance	Clear liquid	Odor Threshold	Not determined
Color	Green		
Property	Values	Remarks • Method	
pH	6.0 – 6.4		
Melting Point/Freezing Point	Not determined		
Boiling Point/Boiling Range	175°F		
Flash Point	90 – 100 °F		
Evaporation Rate	Not determined	(butyl acetate = 1)	
Flammability (Solid, Gas)	Not determined		
Upper Flammability Limits	Not determined		
Lower Flammability Limit	Not determined		
Vapor Pressure	Not established	@ 39.5°C, 104°F	
Vapor Density	Not established	(Air=1)	
Specific Gravity	1.043	(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.

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 away from oxidizers, heat and open flame.

Incompatible Materials

Oxidizing materials.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Eye Contact	Causes eye irritation.
Skin Contact	Prolonged contact may cause redness and irritation.
Inhalation	Over-exposure to vapors could result in upper respiratory tract irritation.
Ingestion	Ingestion may cause irritation to mucous membranes.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl Alcohol 6763-0	= 5,045 mg/kg (Rat)	= 12,800 mg/kg (Rabbit)	= 16,000 ppm (Rat) 8 h
Ethylene Glycol 107-21-1	= 4,700 mg/kg (Rat)	= 10,626 mg/kg (Rabbit)	-

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

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Isopropyl Alcohol 6763-0	>2,000: 72 h Desmodemus subspicatus (green algae) mg/L EC50 >1,000: 24 h Algae mg/L EC50	9,640: 96 h Pimephales promelas mg/L LC50 static	EC50 = 5,102 mg/L 24 h Daphnia magna (Water flea)	-
Ethylene Glycol 107-21-1	-	18,500: 96 h Oncorhynchus mykiss mg/L LC50	74,000: 24 h Daphnia magna mg/L EC50	-

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

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.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Isopropyl Alcohol 6763-0	Ignitable Toxic

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 UN1993
Proper Shipping Name Flammable Liquid (Contains Isopropyl Alcohol)
Hazard Class 3
Packing Group II
Reportable Quantity (RQ)

IATA

UN/ID No UN1993
Proper Shipping Name Flammable Liquid (Contains Isopropyl Alcohol)
Hazard Class 3
Packing Group II

IMDG

UN/ID No UN1993
 Proper Shipping Name Flammable Liquid (Contains Isopropyl Alcohol)
 Hazard Class 3
 Packing Group II

15. REGULATORY INFORMATION

International Inventories

Not Determined

US Federal Regulations**SARA 311/312 Hazard Categories**

Fire hazard Yes

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Isopropyl Alcohol, CAS No. 67-63-0

Ethylene Glycol, CAS No. 107-21-1

US State Regulations**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Isopropyl Alcohol 6763-0	X	X	X
Ethylene Glycol 107-21-1	X	X	X
Urea 57-13-6	X		X

16. OTHER INFORMATION

NFPA**Health Hazards**

2

Flammability

3

Instability

0

Special Hazards

Not determined

HMIS**Health Hazards**

2

Flammability

3

Physical Hazards

0

Personal Protection

Not determined

Revision Date

25-Oct-2016

Revision Note

New format

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