

# SAFETY DATA SHEET

#### Revision Date 19-February-2015

Version 1

### **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier Product Name

Foremost 1089 Alumi-Brite

UN/ID No Product Code UN1789 1089

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**

Skin Corrosion/Irritation	Category 1C
Serious Eye Damage/Eye Irritation	Category 2A
Acute Toxicity, Oral	Category 4
Specific Target Organ Toxicity – Single Exposure	Category 3
Corrosive to Metals	Category 1

#### Signal Word DANGER

#### Hazard Statements

Causes severe skin burns and eye damage. Causes serious eye irritation. Harmful if swallowed. May cause respiratory irritation. May be corrosive to metals.



Appearance Clear Liquid

Physical State Liquid

Odor Acidic

#### **Precautionary Statements - Prevention**

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

#### **Precautionary Statements - Response**

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

#### **Precautionary Statements - Storage**

Store locked up

#### **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-%
Ammonium Bifluoride	1341-49-7	Proprietary
Ethylene Glycol Monobutyl Ether	111-76-2	Proprietary
Hydrochloric Acid	7647-01-0	Proprietary
Sulfuric Acid	7664-93-9	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	Flush with plenty of water for at least 15 minutes. See physician immediately.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If irritation persists, seek medical attention.
Inhalation	Remove to fresh air. Seek immediate medical attention/advice.
Ingestion	Do NOT induce vomiting. Drink promptly a large quantity of milk, egg whites, gelatin solution; or if they are not available, drink large quantities of water. Avoid alcohol.

#### Most Important Symptoms and Effects, both Acute and Delayed

SymptomsBurning and/or irritation to eyes and skin. Irritation and corrosive burns to mouth, throat,<br/>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.
Environmental Precautions	See Section 12 for additional ecological information.
ethods and Material for Containm	ent and Cleaning Up

## Met

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 wellventilated 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.

**Incompatible Materials** Bases, Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium Bifluoride 1341-49-7	TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup>	
Ethylene Glycol Monobutyl Ether 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup> (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m <sup>3</sup> (vacated) S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
Hydrochloric Acid 7647-01-0	STEL: 2 ppm	TWA: 5 ppm STEL: 7 mg/m <sup>3</sup>	TWA: 5 ppm STEL: 7 mg/m <sup>3</sup>
Sulfuric Acid 7664-93-9	TWA: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>

#### 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, su	ich as Personal Protective Equipment	
Eye/Face Protection	Goggles or face shield.	
Skin and Body Protection	Wear protective Neoprene™ gloves, Rubber gloves.	
<b>Respiratory Protection</b>	Ensure adequate ventilation, especially in confined areas.	

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 Appearance Color	Liquid Clear Liquid Colorless	Odor Odor Threshold	Acidic Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits 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 Oxidizing Properties	Values1.3 - 1.7Not available100 °C / 212 °FNot availableNot availableNot determinedNot availableNot availableSame as waterSame as water1.127Soluble in waterNot determinedNot determined	<u>Remarks • Method</u> (1=Water)	

## **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.

#### Hazardous Decomposition Products

None known based on information supplied.

## **11. TOXICOLOGICAL INFORMATION**

#### Information on Likely Routes of Exposure

Product Information	
Eye Contact	Causes serious eye irritation.
Skin Contact	Causes severe skin burns.
Inhalation	May cause irritation to the mucous membranes and upper respiratory tract.
Ingestion	Can cause irritation and corrosive burns to mouth, throat, and stomach.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol Monobutyl Ether	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat)	= 2.21 mg/L (Rat)4 h
111-76-2		= 220 mg/kg (Rabbit)	= 450 ppm (Rat)4 h
Sulfuric acid	= 2140 mg/kg ( Rat )	-	= 510 mg/kg ( Rat ) 2 h
7664-93-9			· ·

#### 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** The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

#### Foremost 1089 Alumi-Brite

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylene Glycol Monobutyl	A3	Group 3		
Ether				
111-76-2				
ACCIH (American Conference of Covernmental Industrial Hydiopists)				

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen

## IARC (International Agency for Research on Cancer)

Group 3 IARC components are "not classifiable as human carcinogens"

### 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
Ethylene Glycol Monobutyl Ether 111-76-2		1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
Hydrochloric Acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50	-	-
Sulfuric acid 7664-93-9		42: 96 h Gambusia affinis mg/L L50		29: 24 h Daphnia magna mg/L EC50

#### Persistence and Degradability

Not determined

#### **Bioaccumulation**

Not determined

#### Mobility

Chemical Name	Partition Coefficient
Ethylene Glycol Monobutyl Ether	0.81
111-76-2	

#### **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	

## **14. TRANSPORT INFORMATION**

<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.		
<u>DOT</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1789 Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution) 8 II		
<u>IATA</u> UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1789 Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution) 8 II		
IMDG UN/ID No Proper Shipping Name Hazard Class Packing Group	UN1789 Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution) 8 II		

## **15. REGULATORY INFORMATION**

#### International Inventories

Not Determined

#### 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 Chemical Substances/European 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

#### **US Federal Regulations**

#### **CERCLA**

#### SARA 302

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Sulfuric acid	7664-93-9	Proprietary	1.0

#### SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylene Glycol Monobutyl Ether	111-76-2	Proprietary	1.0
Sulfuric acid	7664-93-9	Proprietary	1.0

#### CWA (Clean Water Act)

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

## US State Regulations

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ammonium Bifluoride 1341-49-7	Х	X	Х
Ethylene Glycol Monobutyl Ether 111-76-2	Х	X	Х
Hydrochloric Acid 7647-01-0	Х	X	Х
Sulfuric Acid 7664-93-9	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	19-February-2015 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