

## SAFETY DATA SHEET

Revision Date 11-November-2014

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

**Product Name** Foremost 693B-ES Zing De-Limer

UN/ID No UN1789 Product Code 693B-ES

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Lime Remover

**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

Specific Target Organ Toxicity – Single Exposure	Category 3
Skin Corrosion/Irritation	Category 1 Sub-category C
Serious Eye Damage/Eye Irritation	Category 1
Corrosive to Metals	Category 1

# Signal Word DANGER

## **Hazard Statements**

May cause respiratory irritation
Causes severe skin burns and eye damage
May be corrosive to metals



Appearance Clear Red, Liquid

Physical State Liquid

Odor Floral, 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-%
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.

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, gelating

solution; or if they are not available, drink large quantities of water. Avoid alcohol.

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

**Symptoms** 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.

**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.

Incompatible Materials Bases, Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric Acid	STEL: 2 ppm	TWA: 5 ppm	TWA: 5 ppm
7647-01-0		STEL: 7 mg/m <sup>3</sup>	STEL: 7 mg/m <sup>3</sup>

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#### **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** Goggles or face shield.

Skin and Body Protection Wear protective Neoprene™ gloves, Rubber gloves.

**Respiratory Protection** 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 Liquid

AppearanceClear red, LiquidOdorFloral, AcidicColorClear redOdor ThresholdNot determined

Property Values Remarks • Method

Same as water

pH 1.1 – 1.7

**Melting Point/Freezing Point** Not available 100 °C / 212 °F **Boiling Point/Boiling Range** Flash Point Not available **Evaporation Rate** Not available Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not available **Lower Flammability Limit** Not available **Vapor Pressure** Same as water

Specific Gravity 1.127

**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

(1=Water)

## 10. STABILITY AND REACTIVITY

#### Reactivity

**Vapor Density** 

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 severe eye damage.

**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.

#### 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
Hydrochloric Acid 7647-01-0	-	282: 96 h Gambusia affinis mg/L LC50	-	-

## Persistence and Degradability

Not determined

#### **Bioaccumulation**

Not determined

#### **Mobility**

#### **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

**Note** Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT

**UN/ID No** UN1789

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)

Hazard Class 8
Packing Group II

**IATA** 

UN/ID No UN1789

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)

Hazard Class 8
Packing Group ||

**IMDG** 

UN1789

Proper Shipping Name Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid solution)

Hazard Class 8
Packing Group ||

## 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 313**

The following components are subject to reporting levels established by SARA Title III, Section 313: **Hydrochloric Acid, CAS No. 7647-01-0** 

#### **CWA (Clean Water Act)**

**US State Regulations** 

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric Acid	X	X	X
7647-01-0			

4C OTHER INCORMATION

16. OTHER INFORMATION				
<u>NFPA</u>	Health Hazards	Flammability	Instability	Special Hazards
	3	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	Not determined

Revision Date 11-November-2014
Revision Note 11-November 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**