



SAFETY DATA SHEET

Revision Date 18-June-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Foremost 1663 Ram Drain Opener

UN/ID No UN1830
Product Code 1663

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Drain opener.

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

| | |
|-----------------------------------|-------------|
| Skin Corrosion/Irritation | Category 1A |
| Serious Eye Damage/Eye Irritation | Category 1 |
| Corrosive to Metals | Category 1 |

Signal Word

DANGER

Hazard Statements

Causes severe skin burns and eye damage.
Causes serious eye irritation.
May be corrosive to metals.



Appearance Clear Liquid

Physical State Liquid

Odor Acidic

Precautionary Statements - Prevention

Keep in original container.

Do not breathe mist, vapors, or spray.

Wash skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection, and 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. Absorb spillage to prevent material damage.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS No | Weight-% |
|---------------|-----------|-------------|
| Sulfuric Acid | 7664-93-9 | proprietary |

4. FIRST AID MEASURES**First Aid Measures****General Advice**

Provide this SDS to medical personnel for treatment.

Eye Contact

Protect unharmed eye. Flush with plenty of water for at least 15 minutes. Do NOT remove contact lens if worn. See physician immediately.

Skin Contact

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediate medical attention is necessary, as failing to treat burns can prevent wounds from healing.

Inhalation

Remove to fresh air. If not breathing give artificial respiration. Provide oxygen if available and breathing is difficult. Seek immediate medical attention/advice.

Ingestion

Do NOT induce vomiting. Rinse mouth with water. Drink plenty of water and consult a physician.

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. Monitor circulation, possible shock treatment. Medical supervision for at least 48 hours.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media Do NOT use water.

Specific Hazards Arising from the Chemical

Product is not flammable; however it may form toxic gases during heating or in case of fire. Sulfur dioxide.

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 Use limestone to neutralize and absorb the spill. Reclaim spilled material into approved container for proper disposal. For waste disposal, see section 13 of the SDS. Keep away from 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. Avoid splashing and spraying material. Prevent the formation of aerosols. When diluting product, always pour product into water and not vice versa.

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. Unsuitable material for receptacle: Steel, Aluminum. Store away from flammable substances. Do NOT store together with alkalis (caustic solutions). Store away from oxidizing agents. Store away from water. Store away from metals.

Incompatible Materials Bases, Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|----------------------------|----------------------------|--------------------------|--------------------------|
| Sulfuric Acid 7664-93-9 | TWA: 0.2 mg/m ³ | TWA: 1 mg/m ³ | TWA: 1 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.

Individual Protection Measures, such as Personal Protective Equipment**Eye/Face Protection**

Goggles or face shield.

Skin and Body Protection

Wear protective Neoprene™ gloves, PVC gloves. These glove materials permit a maximum contact time of 15 minutes. Wear acid resistant protective clothing to protect the body.

Respiratory Protection

Ensure adequate ventilation, especially in confined areas. Use suitable respiratory protective device in case of insufficient ventilation or when aerosol or mists may be formed.

General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Immediately remove all soiled and contaminated clothing. Clean skin thoroughly after handling product. Use only in well-ventilated areas. Avoid contact with the eyes and skin. Do NOT inhale gases, fumes, or aerosols.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on Basic Physical and Chemical Properties**

| | | | |
|----------------|--------|----------------|----------------|
| Physical State | Liquid | Odor | Acidic |
| Appearance | Clear | Odor Threshold | Not determined |
| Color | Red | | |

| Property | Values | Remarks • Method |
|------------------------------|------------------|------------------|
| pH | <1 | |
| Melting Point/Freezing Point | 37 °F | |
| Boiling Point/Boiling Range | 304 °C / 581 °F | |
| 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 | |
| Vapor Density | Same as water | |
| Specific Gravity | 1.84 | (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

When diluting, always add acid to water, never vice versa. May produce violent reactions with bases and numerous organic substances including alcohols and amines. Strongly reducing. Diluting or dissolving in water always causes rapid heating. Reacts with base metals forming hydrogen. Reacts with fats and oils.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to Avoid

Store away from oxidizing agents and water.

Incompatible Materials

Bases, Strong oxidizing agents.

Hazardous Decomposition Products

Corrosive gases and vapors. Sulfur trioxide or SO₃ mist.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure**Product Information****Eye Contact**

Causes serious 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. Swallowing may lead to danger from perforation of the esophagus and stomach.

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|----------------------------|----------------------|-------------|-------------------------|
| Sulfuric acid 7664-93-9 | = 2140 mg/kg (Rat) | - | = 510 mg/kg (Rat) 2 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**

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

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 |
|----------------------------|----------------------|---------------------------------------|----------------------------|-------------------------------------|
| 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

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. Dilute concentrate with water and neutralize afterwards with suitable alkali material (sodium hydroxide solution, lime). The formed neutral salts are relatively environmentally friendly.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations. Empty contaminated packaging thoroughly. They may be recycled after thorough and proper cleaning.

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 | UN1830 |
| Proper Shipping Name | Sulfuric Acid |
| Hazard Class | 8 |
| Packing Group | II |

IATA

| | |
|----------------------|---------------|
| UN/ID No | UN1830 |
| Proper Shipping Name | Sulfuric Acid |
| Hazard Class | 8 |
| Packing Group | II |

IMDG

| | |
|----------|--------|
| UN/ID No | UN1830 |
|----------|--------|

| | |
|----------------------|---------------|
| Proper Shipping Name | Sulfuric Acid |
| Hazard Class | 8 |
| Packing Group | II |

15. REGULATORY INFORMATION**International Inventories**

Not Determined

Legend:*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL - 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 % |
|---------------|-----------|-------------|-------------------------------|
| 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 |
|----------------------------|------------|---------------|--------------|
| Sulfuric Acid 7664-93-9 | X | X | X |

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

4

0

0

Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

4

0

2

Not determined

Revision Date

18-June-2015

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