

# SAFETY DATA SHEET

#### Revision Date 13-February-2015

Version 1

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

Product Identifier Product Name

F-860 Acid Cleaner

UN/ID No Product Code UN2031 F-860

 Recommended Use of the Chemical and Restrictions on Use

 Recommended Use
 Industrial Cleaner

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**

| Oxidizing liquids                 | Category 3                |
|-----------------------------------|---------------------------|
| Skin Corrosion/Irritation         | Category 1 Sub-category A |
| Serious Eye Damage/Eye Irritation | Category 1                |

#### Signal Word DANGER

#### **Hazard Statements**

May intensify fire; oxidizer. Causes severe skin burns and eye damage. Causes serious eye damage.



Appearance Clear Liquid

Physical State Liquid

Odor Pungent, Acidic

## **Precautionary Statements - Prevention**

### Keep away from heat.

Keep/store away from clothing and combustible materials. Take any precaution to avoid mixing with combustibles. 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

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name | CAS No    | Weight-%    |
|---------------|-----------|-------------|
| Nitric Acid   | 7697-37-2 | 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. Continue rinsing during transport to hospital. See physician immediately.             |
| Skin Contact   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash off with soap and plenty of water. Consult a physician. |
| Inhalation     | Remove to fresh air. Give artificial respiration if not breathing. Seek immediate medical attention/advice.                               |
| Ingestion      | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.               |

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

See section 2.2 and section 11

# 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

Alcohol resistant foam, carbon dioxide or dry chemical extinguisher, or water.

#### Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Nitrogen oxides (N0x).

#### **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      | Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. For PPE see section 8. |
|---------------------------|--|
| Environmental Precautions | Do not let product enter drains.   |

#### Methods and Material for Containment and Cleaning Up

| Methods for Containment | Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-<br>brushing and place in container for disposal according to local regulations (see section 13).  |
|-------------------------|---|
| 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. Keep away from heat and sources of ignition. For precautions see section 2.2.

#### 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Storage class (TRGS 510): Oxidizing materials. |
|------------------------|---|
| Incompatible Materials | Bases, Strong reducing agents.  |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Exposure Guidelines

| Chemical Name                     | ACGIH TLV  | OSHA PEL                         | NIOSH IDLH                             |
|-----------------------------------|--|----------------------------------|--|
| Nitric Acid                       | STEL: 4.000000 ppm<br>TWA: 2.000000 ppm  | TWA: 2.000000 ppm                | TWA: 2.000000 ppm<br>STEL: 4.000000ppm |
| Appropriate Engineering Controls  | <u> </u>   |                                  |  |
| Engineering Controls              | Ventilation must be adequate to exposure limit(s) outlined in the  | •                                | ace atmosphere below the               |
| Individual Protection Measures, s | uch as Personal Protective Equi  | pment                            |  |
| Eye/Face Protection               | Goggles or face shield.  |                                  |  |
| Skin and Body Protection          | Full contact: Fluorinated rubber of at least 0.7mm thickness<br>Splash contact: Natural latex or chloroprene of at least 0.6mm thickness.<br>Complete suit protecting against chemicals. The type of protective equipment must be<br>selected according to the concentration and amount of dangerous substance at the specific<br>workplace. |                                  |  |
| Respiratory Protection            | Ensure adequate ventilation, es<br>full face respirator with multi-pu<br>respirator is the sole means of   | irpose combination respirator of | cartridges as a back up. If the        |

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

| Property<br>pHValues<br><1.0 |  |
|------------------------------|--|

## **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

Alkali metals, organic materials, acetic anhydride, acetonitrile, acrylonitrile, ammonia, crotonaldehyde, halogenated hydrocarbon, acids, bases, metals, hexalithium disilicide, hydrogen peroxide, ketones, metal acetylides, water, fluorine, amines, thiols, cadmium, bromine, copper, hydrazinium nitrate, nitro compounds, cyanides, phosphorous trihydride(phosphine), diphosphine, halides, organic halides, may set fire to wood or paper., polyethers, methhyl vinyl ether.

#### **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 Material is extremely destructive to tissue of mucous membranes and upper respiratory tract, eyes, and skin. Inhalation may provoke the following symptoms: spasm, inflammation and edema of the bronchi, spasm, inflammation, and edema of the larynx, pneumonitis, pulmonary edema. Symptoms and signs of poisoning are: burning sensation, cough, wheezing, laryngitis, shortness of breath, headache, nausea, vomiting, pulmonary edema. Effects may be delayed. Large doses may cause: conversion of hemoglobin to methemoglobin, producing cyanosis; marked fall in blood pressure, leading to collapse, coma, and possibly death.

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

| 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**

No data available.

### Persistence and Degradability

Not determined

#### Bioaccumulation Not determined

Mobility

## No Data Available

## Other Adverse Effects

Not determined

## 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

Disposal of WastesDisposal should be in accordance with applicable regional, national and local laws and<br/>regulations. Contact a licensed professional waste disposal service to dispose of this<br/>material. Offer surplus and non-recyclable material to a licensed disposal company.

# **Contaminated Packaging** Disposal should be in accordance with applicable regional, national and local laws and regulations. Treat as unused product

| Chemical Name | California Hazardous Waste Status |
|---------------|-----------------------------------|
| Nitric Acid   | Corrosive                         |
| 7697-37-2     | 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.

| DOT<br>UN/ID No<br>Proper Shipping Name<br>Hazard Class<br>Packing Group         | UN 2031<br>Nitric Acid<br>8 (5.1)<br>II |
|--|---|
| <u>IATA</u><br>UN/ID No<br>Proper Shipping Name<br>Hazard Class<br>Packing Group | UN 2031<br>Nitric Acid<br>8 (5.1)<br>II |
| IMDG<br>UN/ID No<br>Proper Shipping Name<br>Hazard Class<br>Packing Group        | UN 2031<br>Nitric Acid<br>8 (5.1)<br>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 313

The following components are subject to reporting levels established by SARA Title III, Section 313: Nitric Acid CAS 7697-37-2

#### CWA (Clean Water Act)

#### US State Regulations

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

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---------------|------------|---------------|--------------|
| Nitric Acid   | Х          | X             | Х            |
| 7697-37-2     |            |               |              |

## **16. OTHER INFORMATION**

| <u>NFPA</u>   | Health Hazards      | Flammability | Instability           | Special Hazards           |
|---------------|---------------------|--------------|-----------------------|---------------------------|
| <u>HMIS</u>   | ਤ<br>Health Hazards | Flammability | ∠<br>Physical Hazards | OX<br>Personal Protection |
|               | 3                   | 0            | 3                     | Not determined            |
| Revision Date | 2-July-2015         |              |                       |                           |
| Revision Note | New format          |              |                       |                           |

**Disclaimer** 

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#### **End of Safety Data Sheet**