



# SAFETY DATA SHEET

Issue Date 02-Dec-2003

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Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

**Product Name** Foremost 3064-ES Ultra Clean

**UN/ID No** UN3266  
**Product Code** 3064-ES

### Recommended Use of the Chemical and Restrictions on Use

**Recommended Use** Detergent, Degreaser.

### 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 1 Sub-category B |
| Serious Eye Damage/Eye Irritation | Category 1                |

### Signal Word

**DANGER**

### Hazard Statements

Causes severe skin burns and eye damage



**Appearance** Fluorescent green liquid

**Physical State** Liquid

**Odor** Citrus Orange

### Precautionary Statements - Prevention

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

**Hazards Not Otherwise Classified (HNOC)**

May be harmful if swallowed

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name                   | CAS No    | Weight-%    |
|---------------------------------|-----------|-------------|
| Sodium Silicate                 | 1344-09-8 | Proprietary |
| Ethylene Glycol Monobutyl Ether | 111-76-2  | Proprietary |
| Potassium hydroxide             | 1310-58-3 | Proprietary |

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

|                       |  |
|-----------------------|--|
| <b>General Advice</b> | Provide this SDS to medical personnel for treatment.   |
| <b>Eye Contact</b>    | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately.                              |
| <b>Skin Contact</b>   | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If irritation persists, seek medical attention.    |
| <b>Inhalation</b>     | Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison center if individual's condition declines or if symptoms persist. |
| <b>Ingestion</b>      | Do NOT induce vomiting. Give diluted vinegar or lemon juice to conscious person. Get medical attention immediately.                                      |

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

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Causes skin irritation, Causes eye irritation, Ingestion may cause severe burns to mouth, throat or stomach. May cause irritation to the mucous membranes and upper respiratory tract. |
|-----------------|--|

**Indication of any Immediate Medical Attention and Special Treatment Needed**

|                           |                        |
|---------------------------|------------------------|
| <b>Note to Physicians</b> | 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 or combustible.

**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.

**Methods and Material for Containment and Cleaning Up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so. Soak up and contain spill with an absorbent material.

**Methods for Cleaning Up** Sweep up absorbed material and shovel into suitable containers for disposal. 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. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Do not breathe vapors or spray mist.

**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** Acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name                               | ACGIH TLV                    | OSHA PEL   | NIOSH IDLH   |
|---|------------------------------|--|--|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | TWA: 20 ppm                  | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m <sup>3</sup><br>(vacated) S*<br>S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 mg/m <sup>3</sup> |
| Potassium hydroxide<br>1310-58-3            | Ceiling: 2 mg/m <sup>3</sup> | (vacated) Ceiling: 2 mg/m <sup>3</sup>   | Ceiling: 2 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. Eyewash stations, Showers.

**Individual Protection Measures, such as Personal Protective Equipment**

|                                       |   |
|---------------------------------------|---|
| <b>Eye/Face Protection</b>            | Splash goggles or safety glasses.   |
| <b>Skin and Body Protection</b>       | Wear protective Neoprene™ gloves, Rubber gloves.  |
| <b>Respiratory Protection</b>         | Ensure adequate ventilation, especially in confined areas.  |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before reuse. |

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

|                              |                   |                         |                |
|------------------------------|-------------------|-------------------------|----------------|
| <b>Physical State</b>        | Liquid            | <b>Odor</b>             | Citrus Orange  |
| <b>Appearance</b>            | Clear liquid      | <b>Odor Threshold</b>   | Not determined |
| <b>Color</b>                 | Fluorescent green |                         |                |
| <b>Property</b>              | <b>Values</b>     | <b>Remarks • Method</b> |                |
| pH                           | 7.8-8.3           |                         |                |
| Melting Point/Freezing Point | Not available     |                         |                |
| Boiling Point/Boiling Range  | 98.88 °C / 210 °F |                         |                |
| Flash Point                  | None              |                         |                |
| Evaporation Rate             | Same as water     |                         |                |
| Flammability (Solid, Gas)    | Not determined    |                         |                |
| Upper Flammability Limits    | Not determined    |                         |                |
| Lower Flammability Limit     | Not determined    |                         |                |
| Vapor Pressure               | Not established   |                         |                |
| Vapor Density                | Not established   |                         |                |
| Specific Gravity             | 1.030             | (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.

|                                 |  |
|---------------------------------|--|
| <b>Hazardous Polymerization</b> | Hazardous polymerization does not occur. |
|---------------------------------|--|

**Conditions to Avoid**

Keep out of reach of children.

**Incompatible Materials**

Acids.

**Hazardous Decomposition Products**

None known based on information supplied.

**11. TOXICOLOGICAL INFORMATION****Information on Likely Routes of Exposure****Product Information**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | Causes eye damage.  |
| <b>Skin Contact</b> | Causes severe skin burns.   |
| <b>Inhalation</b>   | May cause irritation to the mucous membranes and upper respiratory tract. |
| <b>Ingestion</b>    | May be harmful if swallowed.  |

**Component Information**

| Chemical Name                               | Oral LD50            | Dermal LD50                                 | Inhalation LC50                               |
|---|----------------------|---|---|
| Sodium Silicate<br>1344-09-8                | = 1153 mg/kg ( Rat ) | > 4640 mg/kg ( Rabbit )                     | -   |
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | = 470 mg/kg ( Rat )  | = 2270 mg/kg ( Rat ) = 220 mg/kg ( Rabbit ) | = 2.21 mg/L ( Rat ) 4 h = 450 ppm ( Rat ) 4 h |
| Potassium hydroxide<br>1310-58-3            | = 214 mg/kg ( Rat )  | -   | -   |

**Information on Physical, Chemical and Toxicological Effects**

|                 |  |
|-----------------|--|
| <b>Symptoms</b> | Please see section 4 of this SDS for symptoms. |
|-----------------|--|

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

|                        |   |
|------------------------|---|
| <b>Carcinogenicity</b> | The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested. |
|------------------------|---|

| Chemical Name                               | ACGIH | IARC    | NTP | OSHA |
|---|-------|---------|-----|------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | A3    | Group 3 |     |      |

*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**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|------|----------------------------|-----------|
|---------------|----------------------|------|----------------------------|-----------|

|   |  |   |  |   |
|---|--|---|--|---|
| Sodium Silicate<br>1344-09-8                |  | 301 - 478: 96 h Lepomis macrochirus mg/L LC50<br>3185: 96 h Brachydanio rerio mg/L LC50 semi-static |  | 216: 96 h Daphnia magna mg/L EC50   |
| Ethylene Glycol Monobutyl Ether<br>111-76-2 |  | 1490: 96 h Lepomis macrochirus mg/L LC50 static<br>2950: 96 h Lepomis macrochirus mg/L LC50         |  | 1698 - 1940: 24 h Daphnia magna mg/L EC50<br>1000: 48 h Daphnia magna mg/L EC50 |
| Potassium hydroxide<br>1310-58-3            |  | 80: 96 h Gambusia affinis mg/L LC50 static  |  |   |

**Persistence and Degradability**

Not determined

**Bioaccumulation**

Not determined

**Mobility**

| Chemical Name                               | Partition Coefficient |
|---|-----------------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | 0.81                  |
| Potassium hydroxide<br>1310-58-3            | 0.65<br>0.83          |

**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 |
|----------------------------------|-----------------------------------|
| Potassium hydroxide<br>1310-58-3 | Toxic<br>Corrosive                |

### 14. TRANSPORT INFORMATION

**Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

|                                 |   |
|---------------------------------|---|
| <b>UN/ID No</b>                 | UN3266  |
| <b>Proper Shipping Name</b>     | Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate) |
| <b>Hazard Class</b>             | 8   |
| <b>Packing Group</b>            | II  |
| <b>Reportable Quantity (RQ)</b> | 1000lbs for Potassium hydroxide   |

**IATA**

|                 |        |
|-----------------|--------|
| <b>UN/ID No</b> | UN3266 |
|-----------------|--------|

|                             |   |
|-----------------------------|---|
| <b>Proper Shipping Name</b> | Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | II  |

**IMDG**

|                             |   |
|-----------------------------|---|
| <b>UN/ID No</b>             | UN3266  |
| <b>Proper Shipping Name</b> | Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate) |
| <b>Hazard Class</b>         | 8   |
| <b>Packing Group</b>        | 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**

| Chemical Name                    | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                  |
|----------------------------------|--------------------------|----------------|---|
| Potassium hydroxide<br>1310-58-3 | 1000 lb                  |                | RQ 1000 lb final RQ<br>RQ 454 kg final RQ |

**SARA 313**

| Chemical Name                              | CAS No   | Weight-%    | SARA 313 - Threshold Values % |
|--|----------|-------------|-------------------------------|
| Ethylene Glycol Monobutyl Ether - 111-76-2 | 111-76-2 | Proprietary | 1.0                           |

**CWA (Clean Water Act)**

| Component  | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--|-----------------------------|------------------------|---------------------------|----------------------------|
| Potassium hydroxide<br>1310-58-3 ( Proprietary ) | 1000 lb                     |                        |                           | X                          |

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

| Chemical Name                               | New Jersey | Massachusetts | Pennsylvania |
|---|------------|---------------|--------------|
| Ethylene Glycol Monobutyl Ether<br>111-76-2 | X          | X             | X            |
| Potassium hydroxide<br>1310-58-3            | X          | X             | X            |

**16. OTHER INFORMATION**

|                    |                       |                     |                         |                            |
|--------------------|-----------------------|---------------------|-------------------------|----------------------------|
| <b><u>NFPA</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Instability</b>      | <b>Special Hazards</b>     |
|                    | 2                     | 0                   | 0                       | Not determined             |
| <b><u>HMIS</u></b> | <b>Health Hazards</b> | <b>Flammability</b> | <b>Physical Hazards</b> | <b>Personal Protection</b> |
|                    | 3                     | 0                   | 0                       | Not determined             |

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**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**