

# SAFETY DATA SHEET

#### Revision Date 23-September-2014

Version 1

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

Product Identifier Product Name

Foremost 1190 Ferro Kleen

UN/ID No Product Code UN3262 1190

Recommended Use of the Chemical and Restrictions on Use Recommended Use Metal 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**

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 White granular solid

Physical State Solid

Odor Detergent

## 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

#### Other Hazards

Harmful to aquatic life with long lasting effects Harmful to aquatic life

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

Chemical Name	CAS No	Weight-%
Sodium Hydroxide	1310-73-2	Proprietary
Sodium Metasilicate	6834-92-0	Proprietary
Sodium Carbonate	497-19-8	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	Wash eyes immediately with large amount of water, lifting upper and lower lids occasionally. Get medical attention immediately.
Skin Contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If irritation persists, seek medical attention.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Ingestion	Do not induce vomiting. If person is conscious, give large quantities of water, milk, or an acidic beverage. Get medical attention immediately.
Most Important Symptoms and Effe	ects, both Acute and Delayed
Symptoms	EYES AND SKIN: Irritation to eyes, nose, and throat. Causes skin irritation and corrosive action upon body tissue.
	INGESTION: Causes severe burns to mouth, throat, and stomach.

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

#### Note to Physicians

Prolonged exposure will cause severe burns with scarring. Contact to eyes cause rapid tissue destruction leading to permanent eye damage and possible blindness.

#### **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Foam, carbon dioxide or dry chemical extinguisher.

Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Product is not flammable.

UNUSUAL FIRE AND EXPLOSION HAZARD: Acid, flammable liquids, organic halogenated compounds and, contact with nitro compounds, may form shock sensitive salts.

#### **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. Use air-supplied equipment for enclosed areas.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

Personal PrecautionsWear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard<br/>area. Keep unnecessary and unprotected personnel from entering.

**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 with inert material.

Methods for Cleaning Up Sweep up 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. When dissolving in water, add product slowly to surface of water with constant stirring. Avoid violent spattering. Avoid breathing vapors or mists. Use personal protection recommended in Section 8. Wash face, hands, and any exposed skin thoroughly after handling. Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

#### Conditions for Safe Storage, Including any Incompatibilities

- **Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Do not store or mix with strong oxidants.
- Incompatible Materials Acids, Oxidizing materials.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		(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.
Individual Protection Measures, su	ch as Personal Protective Equipment
Eye/Face Protection	Splash goggles or safety glasses.
Skin and Body Protection	Wear rubber or neoprene gloves. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Respiratory Protection</b>	Nuisance dust mask 3M type 8710 or equivalent.
General Hygiene Consideratior	Is 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

Physical State Appearance Color	Solid / Powder White granular White	Odor Odor Threshold	Detergent Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower 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	Values12.4 - 12.8Not availableNot determinedNoneNot determinedNot determinedNot availableNot availableNot availableNot availableNot availableNot availableNot availableNot availableNot applicableSoluble in waterNot determinedNot determined	<u>Remarks • Method</u> (1=Water)	
Explosive Properties Oxidizing Properties	Not determined Not determined		

### **10. STABILITY AND REACTIVITY**

#### **Reactivity**

Not reactive under normal conditions. Acid, flammable liquids, organic halogenated compounds and, contact with nitro compounds, may form shock sensitive salts.

### 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

Contact with incompatible materials.

#### Incompatible Materials

Acids, Oxidizing materials.

#### **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	May cause burns to mouth and gastrointestinal corrosion.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hydroxide 1310-73-2	-	= 1350 mg/kg (Rabbit)	-
Sodium Metasilicate 6834-92-0	= 1,152-1,349 mg/kg(Rat)	= Corrosive ( Rabbit ) 4 h	= Does not cause skin sensitization ( Mouse ) In vivo assay
Sodium Carbonate 497-19-8	= 4,090 mg/kg ( Rat )	= Mild skin irritation (Rabbit) 24 h	= 5,750 mg/L(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** 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
Sodium hydroxide		45.4: 96 h Oncorhynchus		
1310-73-2		mykiss mg/L LC50 static		
Sodium Metasilicate		210: 96 h Zebra Fish mg/L		
6834-92-0		LC50 semi-static		
Sodium Carbonate		300: 96 h Bluegill mg/L	265: 48 h Water flea mg/L	
497-19-8		LC50 static	EC50 static	

#### 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.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Sodium hydroxide	Toxic
1310-73-2	Corrosive

### 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	UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide) 8 II
Reportable Quantity (RQ)	5000 lbs
IATA UN/ID No Proper Shipping Name Hazard Class Packing Group	UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide) 8 II
IMDG UN/ID No Proper Shipping Name	UN3262 Corrosive solid, basic, inorganic, n.o.s. (Sodium hydroxide)

Hazard Class

**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

8 11

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**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hydroxide	1000 lb		RQ 1000 lb final RQ
1310-73-2			RQ 454 kg final RQ

Yes

#### SARA 311/312 Hazard Categories

Acute health hazard SARA 313 Not determined

#### CWA (Clean Water Act)

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			х

#### US State Regulations

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide 1310-73-2	Х	X	Х
Sodium Metasilicate 6834-92-0	Х		Х
Sodium Carbonate 497-19-8	Х		Х
Sodium Tripolyphosphate 7758-29-4	Х	X	Х

### **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards 3 Health Hazards 3	Flammability 0 Flammability 0	Instability 1 Physical Hazards 1	Special Hazards Not determined Personal Protection Not determined
Revision Date Revision Note	23-September-2014 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