

# **SAFETY DATA SHEET**

Issue Date 02-Dec-2003 Revision Date 20-June-2013 Version 1

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name Foremost 5521 Liquid Machine Dishwasher

UN/ID No UN3266 Product Code 5521

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Liquid Dishwasher

**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 Clear colorless liquid Physical State Liquid 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

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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
Potassium hydroxide	1310-58-3	Proprietary

# 4. FIRST AID MEASURES

# **First Aid Measures**

**General Advice** Provide this SDS to medical personnel for treatment.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get

medical attention immediately.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. If irritation persists, seek medical attention.

**Inhalation** Remove exposed individual(s) to fresh air for 20 minutes. Consult a physician / poison

center if individual's condition declines or if symptoms persist.

Ingestion 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

Symptoms 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

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 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
Potassium hydroxide 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

**Eye/Face Protection** Splash goggles or safety glasses.

**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. Wash contaminated

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Information on Basic Physical and Chemical Properties

Physical StateLiquidOdorDetergentAppearanceClear liquidOdor ThresholdNot determinedColorColorlessOdor ThresholdNot determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 11.5-11.8

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 1.249 (1=Water)

**Water Solubility** Soluble in water Solubility in Other Solvents Not determined Not determined **Partition Coefficient 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.

**Hazardous Polymerization** 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**

**Eye Contact** Causes eye damage.

**Skin Contact** Causes severe skin burns.

**Inhalation** May cause irritation to the mucous membranes and upper respiratory tract.

**Ingestion** May be harmful if swallowed.

# **Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Silicate 1344-09-8	= 1153 mg/kg ( Rat )	> 4640 mg/kg (Rabbit)	-
Potassium hydroxide 1310-58-3	= 214 mg/kg ( Rat )	-	-

# 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**

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		301 - 478: 96 h Lepomis		216: 96 h Daphnia magna
1344-09-8		macrochirus mg/L LC50		mg/L EC50
		3185: 96 h Brachydanio rerio		
		mg/L LC50 semi-static		
Potassium hydroxide		80: 96 h Gambusia affinis		
1310-58-3		mg/L LC50 static		

# Persistence and Degradability

Not determined

# **Bioaccumulation**

Not determined

# **Mobility**

Chemical Name	Partition Coefficient
Potassium hydroxide	0.65
1310-58-3	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	Toxic
1310-58-3	Corrosive

# 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 UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate)

Hazard Class 8
Packing Group ||

Reportable Quantity (RQ) 1000lbs for Potassium hydroxide

<u>IATA</u>

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate)

Hazard Class 8
Packing Group ||

**IMDG** 

UN/ID No UN3266

Proper Shipping Name Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide, Sodium silicate)

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**

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

# **SARA 313**

Not determined

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

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

# **US State Regulations**

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Potassium hydroxide	X	X	X
1310-58-3			

# 16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	2	0	0	Not determined
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	3	0	0	Not determined

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 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**