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## 1. IDENTIFICATION

### PRODUCT IDENTIFIER

**PRODUCT NAME** ALL TEMPERATURE DISH MACHINE DETERGENT

### OTHER MEANS OF IDENTIFICATION

**SDS Number** E-001  
**UN/ID No** UN1760  
**Product Code** D16

**Recommended Uses** Machine dishwashing

### SDS-SUPPLIER INFORMATION

**SUPPLIER ADDRESS** E-ZOIL Products, Inc.  
*DBA Emulso*  
2750 Kenmore Avenue  
Tonawanda, NY 14150

### EMERGENCY TELEPHONE NUMBER

**COMPANY PHONE NUMBER** (716) 854-2889  
**COMPANY FAX NUMBER** (716) 854-2809  
**24-HOUR EMERGENCY TELEPHONE (ACCOUNT #8686)**  
**NORTH AMERICA** 1-800-633-8253  
**INTERNATIONAL** PERS 1-801-629-0667

## 2. HAZARDS IDENTIFICATION

### CLASSIFICATION

Skin corrosion/irritation Category 1 Sub-Category B  
Serious eye damage/eye irritation Category 1

**SIGNAL WORD** Danger

### HAZARD STATEMENTS



**HAZARD STATEMENTS** 1. Causes severe skin burns and eye damage

**APPEARANCE** Red Liquid      **PHYSICAL STATE** Liquid

## PRECAUTIONARY STATEMENTS

<b>PREVENTION</b>	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
<b>RESPONSE</b>	Immediately call poison center or doctor/ physician.
<b>IF SWALLOWED</b>	Call POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
<b>IF IN EYES</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
<b>IF ON SKIN/HAIR</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
<b>IF INHALED</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a poison center or doctor/physician if you feel unwell.
<b>IF EXPOSED/CONCERNED</b>	Get medical advice/ attention.
<b>STORAGE</b>	Store locked-up. Keep away from children.
<b>DISPOSAL</b>	Dispose of contents/container to an approved waste disposal plant.
<b>HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)</b>	May be harmful if swallowed.
<b>OTHER INFORMATION</b>	Toxic to aquatic life with long lasting effects.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Tetrasodium EDTA	64-02-8	15-20
Sodium hydroxide	1310-73-2	15-20

## 4. FIRST-AID MEASURES

### DESCRIPTION OF FIRST AID MEASURES

<b>GENERAL ADVICE</b>	Provide this SDS to medical personnel for treatment.
<b>EYE CONTACT</b>	Rinse eyes 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.
<b>SKIN CONTACT</b>	Wash skin with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.



## Safety Data Sheet

**INHALATION** Remove person to fresh air and keep at rest in a position comfortable for breathing. Immediately call poison center or doctor/ physician.

**INGESTION** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink 1-2 glasses of water. Immediate medical attention is required.

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### POTENTIAL ACUTE HEALTH EFFECTS

*Most important symptoms and effects, both acute and delayed*

**SYMPTOMS** Exposed individuals may experience eye tearing, redness and discomfort. Contact will cause irritation and redness to exposed areas. May cause irritation to the mucous membranes and upper respiratory tract. May cause burns to mouth, esophagus and stomach. Swallowing large quantities may cause gastrointestinal tract irritation, nausea, vomiting and diarrhea.

**NOTES TO PHYSICIAN** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**SUITABLE EXTINGUISHING MEDIA** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**UNSUITABLE EXTINGUISHING MEDIA** None known

**SPECIFIC HAZARDS ARISING FROM CHEMICAL** Will react with some metals (e.g. aluminum, tin zinc) to form flammable hydrogen gas.

### PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/ NIOSH (approved and equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

**PERSONAL PRECAUTIONS** Use personal protective equipment as required.  
**ENVIRONMENTAL PRECAUTIONS** Prior permitting may be required before any detergent chemicals can be put into city sewers.

### METHODS AND MATERIALS FOR CONTAMINATION AND CLEAN-UP

**CONTAMINATION** Prevent further leakage or spillage is safe to do so. Dike spill and collect into closable containers for disposal with an inert absorbent.  
**CLEAN-UP** Flush area with water.

## 7. HANDLING AND STORAGE

### PRECAUTIONS FOR SAFE HANDLING

**PROTECTIVE MEASURES** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not breathe dust/fume/gas/mist/vapor/spray. Do not eat, drink, or smoke when using this product. Use personal protection recommended in Section 8.

### CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

**STORAGE CONDITIONS** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Protect from freezing. Do not store at temperatures above 120°F. Do not mix with other chemicals.

**INCOMPATIBLE MATERIALS** Strong acids.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE GUIDELINES

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide 1310-73-2	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup> (vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

**ENGINEERING CONTROLS:** Apply technical measures to comply with the occupational exposure limits.

### INDIVIDUAL PROTECTION MEASURES

**EYE/FACE PROTECTION** Wear approved safety goggles.  
**SKIN/BODY PROTECTION** Wear rubber or neoprene gloves.  
**RESPIRATORY PROTECTION** Ensure adequate ventilation, especially in confined areas.  
**GENERAL HYGIENE** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>PHYSICAL STATE</b>	Liquid
<b>APPEARANCE</b>	Red liquid
<b>COLOR</b>	Red
<b>ODOR</b>	Mild
<b>ODOR THRESHOLD</b>	Not determined
<b>pH</b>	13.0-14.0
<b>MELTING POINT/FREEZING POINT</b>	Not determined
<b>BOILING POINT/BOILING RANGE</b>	>100° / >212°F
<b>FLASH POINT</b>	Not determined
<b>EVAPORATION RATE</b>	Not determined
<b>FLAMMABILITY (SOLID, GAS)</b>	N/A - liquid
<b>UPPER FLAMMABILITY LIMITS</b>	Not determined
<b>LOWER FLAMMABILITY LIMITS</b>	Not determined
<b>VAPOR PRESSURE</b>	Not determined

<b>SPECIFIC GRAVITY</b>	1.25
<b>RELATIVE DENSITY</b>	Not determined
<b>WATER SOLUBILITY</b>	Completely soluble
<b>PARTITION COEFFICIENT</b>	Not determined
<b>N-OCTANOL/ WATER</b>	Not determined
<b>AUTO-IGNITION TEMPERATURE</b>	Not determined
<b>DECOMPOSITION TEMPERATURE</b>	Not determined
<b>VISCOSITY</b>	Not determined

## 10. STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Not reactive under normal conditions
<b>CHEMICAL STABILITY</b>	Stable under recommended storage conditions
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	None under normal processing
<b>CONDITIONS TO AVOID</b>	Keep out of reach of children. Mixing with other cleaning agents.
<b>INCOMPATIBLE MATERIALS</b>	Strong acids.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	When exposed to fire, produces normal products of combustion.

## 11. TOXICOLOGICAL INFORMATION

*Information on likely routes of exposure.*

<b>EYE CONTACT</b>	Causes severe eye damage.
<b>SKIN CONTACT</b>	Avoid contact with skin.
<b>INHALATION</b>	Avoid breathing vapors or mists.
<b>INGESTION</b>	May be harmful if swallowed.

### COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Sodium hydroxide <b>1310-73-2</b>	-	1350 mg/kg ( Rabbit )	-
Tetrasodium EDTA <b>64-02-8</b>	= 10g/kg ( Rat )	-	-

**SYMPTOMS** Please see section 4 of this SDS for symptoms.

**CARCINOGENITY** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**NUMERICAL MEASURES OF TOXICITY-PRODUCT** Not determined.

The following values are calculated based on chapter 3.1 of the GHS document.

<b>ATEmix (oral)</b>	2441 mg/kg
<b>ATEmix (dermal)</b>	6593 mg/kg

## 12. ECOLOGICAL INFORMATION

**ECOTOXICITY** Toxic to aquatic organisms. Toxic to aquatic life with long lasting effects.

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	TOXIC TO MICROORGANISMS	CRUSTACEA
Sodium hydroxide <b>1310-73-2</b>	-	45,4: 96 h Oncorhynchus mykiss mg/l LC50 static	-	-
Tetrasodium EDTA <b>64-02-8</b>	1.01: 72 h Desmodosmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	-	610: 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

**WASTE DISPOSAL** 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

### DOT

**UN/ID No** UN1760  
**Proper shipping name** Corrosive liquid, n.o.s. (Sodium hydroxide)  
**Hazard Class** 8  
**Packing Group** II  
**Reportable Quantity (RQ)** Sodium hydroxide 1000 lbs

### IATA

**UN/ID No** UN1760  
**Proper shipping name** Corrosive liquid, n.o.s. (Sodium hydroxide)  
**Hazard Class** 8  
**Packing Group** II  
**Reportable Quantity (RQ)** Sodium hydroxide 1000 lbs



# Safety Data Sheet

## IMDG

<b>UN/ID No</b>	UN1760
<b>Proper shipping name</b>	Corrosive liquid, n.o.s. (Sodium hydroxide)
<b>Hazard Class</b>	8
<b>Packing Group</b>	II
<b>Reportable Quantity (RQ)</b>	Sodium hydroxide 1000 lbs

## 15. REGULATORY INFORMATION

### INTERNATIONAL INVENTORIES

#### LEGEND

<b>TSCA</b>	United States Toxic Substances Control Act Section 8(B) Inventory
<b>DSL/NDSL</b>	Canadian Domestic Substances List/Non-Domestic Substances List
<b>EINECS/ELINCS</b>	European Inventory of Existing/Notified Chemical Substances
<b>ENCS</b>	Japan Existing and New Chemical Substances
<b>IECSC</b>	China Inventory of Existing Chemical Substances
<b>KECL</b>	Korean Existing and Evaluated Chemical Substances
<b>PICCS</b>	Philippines Inventory of Chemicals and Chemical Substances

## U.S. FEDERAL REGULATIONS

### SARA 311/312 HAZARD CATEGORIES

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hydroxide 1310-73-2	1000 lb			X

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

## U.S. STATE REGULATIONS

### U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Sodium hydroxide 1310-73-2	X	X	X

## 16. OTHER INFORMATION

<b>NFPA</b>	<b>HEALTH HAZARDS</b>	<b>FLAMMABILITY</b>	<b>INSTABILITY</b>	<b>SPECIAL HAZARDS</b>
	Not determined	Not determined	Not determined	Not determined
<b>HMIS</b>	<b>HEALTH HAZARDS</b>	<b>FLAMMABILITY</b>	<b>PHYSICAL HAZARDS</b>	<b>PERSONAL PROTECTION</b>
	Not determined	Not determined	Not determined	Not determined

## DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge 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**