

ISSUE DATE: September 2013

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VERSION: 1

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 800-535-5053
INTERNATIONAL 352-323-3500

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

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
RESPONSE	Immediately call poison center or doctor/ physician.
IF SWALLOWED	Call POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
IF ON SKIN/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 Call a poison center or doctor/physician if you feel unwell.
IF EXPOSED/CONCERNED	Get medical advice/ attention.
STORAGE	Store locked-up. Keep away from children.
DISPOSAL	Dispose of contents/container to an approved waste disposal plant.
HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)	May be harmful if swallowed.
OTHER INFORMATION	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

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.

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Provide this SDS to medical personnel for treatment.
EYE CONTACT	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.



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SKIN CONTACT	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.
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.

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.
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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 ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

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

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

SPECIFIC GRAVITY	1.25
RELATIVE DENSITY	Not determined
WATER SOLUBILITY	Completely soluble
PARTITION COEFFICIENT N-OCTANOL/ WATER	Not determined
AUTO-IGNITION TEMPERATURE	Not determined
DECOMPOSITION TEMPERATURE	Not determined
VISCOSITY	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
CONDITIONS TO AVOID	Keep out of reach of children. Mixing with other cleaning agents.
INCOMPATIBLE MATERIALS	Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	When exposed to fire, produces normal products of combustion.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

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

COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Sodium hydroxide 1310-73-2	-	1350 mg/kg (Rabbit)	-
Tetrasodium EDTA 64-02-8	= 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.

ATEmix (oral)	2441 mg/kg
ATEmix (dermal)	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 1310-73-2	-	45,4: 96 h Oncorhynchus mykiss mg/l LC50 static	-	-
Tetrasodium EDTA 64-02-8	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 1310-73-2	Toxic Corrosive
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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



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IMDG

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

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES

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/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

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

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	SPECIAL HAZARDS
	Not determined	Not determined	Not determined	Not determined
HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	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