



ISSUE DATE: January 2015

REVISION DATE:

VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME EZ ZYME

OTHER MEANS OF IDENTIFICATION

SDS Number E-119

Recommended Uses All Purpose Cleaner

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 3
Serious eye damage/eye irritation Category 2B

SIGNAL WORD Warning

HAZARD STATEMENTS

HAZARD STATEMENTS H320: Causes eye irritation.
H316: Causes mild skin irritation.
H303: May be harmful if swallowed.

APPEARANCE Clear Liquid

PRECAUTIONARY STATEMENTS

PREVENTION P264: Wash thoroughly after handling.
P234: Keep only in original container.

RESPONSE P310: Immediately call a POISON CENTER or doctor/physician.

IF SWALLOWED P301+P330+P331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.



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IF IN EYES	P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313: If eye irritation persists: Get medical advice/attention.
IF ON SKIN/HAIR	P332+P313: If skin irritation occurs: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse.
STORAGE	P405: Store locked up.
DISPOSAL	P501: Dispose of contents/container in accordance with local, state and federal regulations.
IMMEDIATE CONCERNS	Moderate eye irritant.

POTENTIAL HEALTH EFFECTS

EYES	Contact causes eye irritation.
SKIN	May be mildly irritating with prolonged or repeated contact.
SKIN ABSORPTION	No known significant effects or critical hazards.
INGESTION	Harmful if swallowed.

REPRODUCTIVE TOXICITY

TERATOGENIC EFFECTS	No known significant effects or critical hazards.
CARCINOGENICITY	No known significant effects or critical hazards.
MUTAGENICITY	No known significant effects or critical hazards.
ROUTES OF ENTRY	Eye, skin, ingestion.
WARNING CAUTION LABELS	Irritant.
PHYSICAL HAZARDS	None expected.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Nonylphenol Ethoxylate	9016-45-9	0-15
Monopropylene Glycol	57-55-6	0-20
Triethanolamine	00102-71-6	0-3
Water	7732-18-5	60-80
Fragrance	N/A	<1

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	Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

- SKIN CONTACT** Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.
- INHALATION** Remove victim to fresh air and monitor. Seek medical advice if irritation persists.
- INGESTION** Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

- EYES** Burning sensation with tears, redness.
- SKIN** Redness and itching sensation.
- INGESTION** Irritation of mouth, throat, along with stomach upset, vomiting.
- INHALATION** Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.
- ACUTE TOXICITY** Irritating to eyes, mild skin irritation.

5. FIRE-FIGHTING MEASURES

- FLAMMABLE CLASS** None.
- SUITABLE EXTINGUISHING MEDIA** Not required.
- EXPLOSION HAZARDS** None.
- HAZARDOUS DECOMPOSITION PRODUCTS** Decomposition products may include: Carbon dioxide, Carbon monoxide, nitrogen oxides.

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

- SMALL SPILL** Avoid walking in product. Wipe up or otherwise push small spills to sanitary sewer.
- LARGE SPILL** Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

ENVIRONMENTAL PRECAUTIONS

- WATER SPILL** Avoid discharges into open waterways.
- LAND SPILL** Avoid discharge to soil.
- AIR SPILL** N/A

GENERAL PROCEDURES



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Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other noncombustible material and transfer to containers.

RELEASE NOTES

Not established.

SPECIAL PROTECTIVE EQUIPMENT

Eye protection, rubber gloves, rubber boots to protect feet.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

GENERAL PROCEDURES Close container after use.

HANDLING Avoid contact with skin and eyes. Wash hands before eating, drinking, smoking, or using toilet facilities.

CONDITIONS FOR SAFE STORAGE (INCLUDING ANY INCOMPATIBILITIES)

STORAGE Store in closed container in an area inaccessible to children.

STORAGE TEMPERATURE Store at ambient temperatures.

STORAGE PRESSURE Store at ambient atmospheric pressure.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES

OSHA HAZARDOUS COMPONENTS (29 CFR1910.1200)

CHEMICAL NAME		EXPOSURE LIMITS					
		OSHA PEL ppm	mg/m ³	ACGIH TLV ppm	mg/m ³	SUPPLIER OEL ppm	mg/m ³
Monopropylene Glycol	TWA						
Triethanolamine - SEE BELOW	TWA TLV						

Exposure Limit Values
Triethanolamine (102-71-6) - 5mg/m3 PEL California
Diethanolamine (111-42-2) 3ppm TWA; 15MG/m3 TWA Connecticut, Michigan, Minnesota, OSHA, Tennessee, Vermont, Washington 0.46ppm PEL; 2 mg/m3 PEL - California

INDIVIDUAL PROTECTION MEASURES

EYE/FACE PROTECTION Safety glasses with side shields.
SKIN/BODY PROTECTION Rubber or other chemical resistant gloves.
RESPIRATORY PROTECTION Where danger of mist contact may occur, wear NIOSH approved respiratory protection for mists.



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GENERAL HYGIENE Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
COLOR	Clear
ODOR	None
ODOR THRESHOLD	Not established
pH	5.0 - 7.0
PERCENT VOLATILE	>98
FLASH POINT AND METHOD	None
FLAMMABLE LIMITS	N/A
AUTOIGNITION TEMPERATURE	N/A
BOILING POINT/BOILING RANGE	212° F; 100° C
FREEZING POINT	32° F; 0 ° C
EVAPORATION RATE	(Water =1) 1.0
VAPOR PRESSURE	~ 20 mm Hg at (68°F)
VAPOR DENSITY	~ 1 Air = 1
SPECIFIC GRAVITY	1.001 grams/ml. at (20°F)
DENSITY	8.35 at (20°F)
WATER SOLUBILITY	Complete
VISCOSITY	Water thin.
(VOC)	2.360 % by weight

10. STABILITY AND REACTIVITY

REACTIVITY	None.
HAZARDOUS POLYMERIZATION	Will not occur.
CONDITIONS TO AVOID	Not established.
INCOMPATIBLE MATERIALS	Strong acids, oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS	None expected.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

EYE CONTACT	Mild to moderate eye irritant.
SKIN CONTACT	Moderate skin irritant.

COMPONENT INFORMATION



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<u>CHEMICAL NAME</u>	<u>ORAL LD50 (rat)</u>	<u>DERMAL LD50 (rabbit)</u>	<u>INHALATION LC50 (rat)</u>
Nonylphenol Ethoxylate	16000 mg/kg (rat)	4490 mg/kg (rabbit)	
Monopropylene Glycol	>2000 mg/kg (rat)	> 2000 mg/kg (rabbit)	
Triethanolamine	6400 mg/kg (rat)	>2000 mg/kg (rabbit)	0.2.mg/l

EYES	Causes eye irritation.
DERMAL LD	50: > 2000 Not Established
ORAL LD	50: > 5000 Not Established
INHALATION LC	50: Not Established

CARCINOGENICITY

IARC No listed substance.

CORROSIVITY N/A

GENETIC EFFECTS No known significant effects or critical hazards.

REPRODUCTIVE EFFECTS No known significant effects or critical hazards.

TARGET ORGANS No known significant effects or critical hazards.

MUTAGENICITY No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA	Not established.
ECOTOXICOLOGICAL INFORMATION	This material may be toxic to aquatic life.
AQUATIC TOXICITY (ACUTE)	Not established.
CHEMICAL FATE INFORMATION	This product is biodegradable.

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

DISPOSAL METHOD	Although not a hazardous waste, the discarding or disposal of this material should be done at a properly permitted facility in accordance with the regulations 40CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations.
FOR LARGE SPILLS	Consult with local and state authorities for large volume disposal.
EMPTY CONTAINER	Rinse container with clear water. Offer container for recycling, or dispose of in trash.

14. TRANSPORT INFORMATION

DOT

PROPER SHIPPING NAME	Not regulated.
PLACARDS	None.
LABEL	None.

U.S. CUSTOMS HARMONIZATION NUMBER

AIR (ICAO/IATA)

SHIPPING NAME	Not regulated.
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VESSEL (IMO/IMDG)
SHIPPING NAME Not regulated.

15. REGULATORY INFORMATION

U.S. REGULATIONS

DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

CERCLA Diethanolamine (111-42-2) 100 lb RQ

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES Health - Acute

FIRE No

PRESSURE GENERATING No

REACTIVITY No

ACUTE Yes

CHRONIC No

313 REPORTABLE INGREDIENTS No listed substance.

302/304 EMERGENCY PLAN No listed substance.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY All ingredients are listed on the TSCA Chemical Inventory.

U.S. STATE REGULATIONS

U.S. STATE RIGHT-TO-KNOW REGULATIONS

STATES WITH SPECIAL REQUIREMENTS

CHEMICAL NAME

REQUIREMENTS

Nonylphenol Ethoxylate

Massachusetts Right to Know Substance
New Jersey Right To Know Substance
Pennsylvania Right to Know Substance
Massachusetts Right to Know Substance
New Jersey Right To Know Substance
New York Right to Know Substance
Pennsylvania Right to Know Substance

Triethanolamine (102-71-6)
Diethanolamine (111-42-2) <0.01%

CALIFORNIA PROPOSITION 65

Diethanolamine (111-42-2) <0.01%

CARCINOGEN

No substance listed.

16. OTHER INFORMATION

NFPA	HEALTH HAZARDS	FLAMMABILITY	INSTABILITY	PHYSICAL AND CHEMICAL HAZARDS
	2	0	0	COR
HMIS	HEALTH HAZARDS	FLAMMABILITY	PHYSICAL HAZARDS	PERSONAL PROTECTION
	2	0	0	C

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