

ISSUE DATE: September 2013

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VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER

PRODUCT NAME FORMULA 75

OTHER MEANS OF IDENTIFICATION

SDS Number E-004

Product Code A5

Recommended Uses: Cleaner/Degreaser

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

Acute toxicity - Oral Category 4

Skin corrosion/irritation Category 1 Sub-category C

Serious eye damage/eye irritation

Category 1

SIGNAL WORD Danger

HAZARD STATEMENTS



HAZARD STATEMENTS
1. Harmful if swallowed
2. Causes severe skin burns and eye damage

APPEARANCE Clear liquid PHYSICAL STATE Liquid



Safety Data Sheet

PRECAUTIONARY STATEMENTS

PREVENTION	Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapors/spray Wear protective gloves/protective clothing/eye protection/face protection
RESPONSE	Immediately call poison center or doctor/ physician.
IF SWALLOWED	Call a 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 Immediately call a POISON CENTER or doctor/physician.
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 Immediately call a POISON CENTER or doctor/physician.
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)	N/A
OTHER INFORMATION	N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT - %
Water	7732-18-5	to 100%
Potassium hydroxide	1310-58-3	10-20
Non-ionic Surfactant	Proprietary	0-10
Tetrapotassium pyrophosphate	7320-34-5	0-5
Sodium metasilicate	6834-92-0	0-5

4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE	Provide this SDS to medical personnel for treatment.
EYE CONTACT	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician immediately.

SKIN CONTACT	Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash contaminated clothing before reuse. Get medical attention. Destroy contaminated shoes.
INHALATION	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a physician immediately.
INGESTION	Rinse mouth. Do NOT induce vomiting. Drink 1 or 2 glasses of water. Call a POISON CENTER or doctor/physician if you feel unwell.

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.
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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	Not determined
HAZARDOUS COMBUSTION PRODUCTS	Produces alkaline vapors in a fire.

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. Spills may be slippery.
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
CLEAN-UP	Sweep up and reclaim for use or flush to sewer.

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
Potassium hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³
Sodium metasilicate 6834-92-0	Ceiling: 2 mg/m ³	(vacated) 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
APPERANCE Green liquid
COLOR Green
ODOR Pine scent
ODOR THRESHOLD Not determined
pH 12.5-13.5
MELTING POINT/FREEZING POINT Not determined
BOILING POINT/BOILING RANGE >100°C / >212°F
FLASH POINT Non-flammable
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	1.3
RELATIVE DENSITY	Not determined
WATER SOLUBILITY	Completely soluble
PARTITION COEFFICIENT	Not determined
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
INCOMPATIBLE MATERIALS	Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	Produces alkaline vapors in a fire.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure.

EYE CONTACT	Causes severe eye damage.
SKIN CONTACT	Causes severe skin burns.
INHALATION	Avoid breathing vapors or mists.
INGESTION	Harmful if swallowed.

COMPONENT INFORMATION

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Water 7732-18-5	> 90 mL/kg (Rat)		
Potassium hydroxide 1310-58-3	= 214 mg/kg (Rat)		
Non-ionic Surfactant	= 1310 mg/kg (Rat)	= 2 mL/kg (Rabbit)	
Sodium metasilicate 6834-92-0	= 600 mg/kg (Rat)		
Tetrapotassium pyrophosphate 7320-34-5		> 4640 mg/kg (Rabbit)	

SYMPTOMS Please see section 4 of this SDS for symptoms.

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

NUMERICAL MEASURES OF TOXICITY-PRODUCT Not determined.

12. ECOLOGICAL INFORMATION

ECOTOXICITY Harmful to aquatic life with long lasting effects.

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	TOXIC TO MICROORGANISMS	CRUSTACEA
Potassium hydroxide 1310-58-3	-	80: 96 h Gambusia affinis mg/L LC50 static	-	-
Sodium metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50 semi-static 210: 96 h Brachydanio rerio mg/L LC50	-	216: 96 h Daphnia magna mg/L EC50
Tetrapotassium pyrophosphate 7320-34-5	-	100: 96 h Oncorhynchus mykiss mg/L LC50	-	100: 48 h water flea mg/L EC50

PERSISTENCE AND DEGRADABILITY Not determined

BIOACCUMULATION Not determined

MOBILITY

Chemical Name	Partition Coefficient
Potassium hydroxide 1310-58-3	0.65 0.83

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

Potassium hydroxide 1310-58-3	Toxic Corrosive
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14. TRANSPORT INFORMATION

DOT

UN/ID No	UN1760
Proper shipping name	Corrosive liquids, n.o.s. (Potassium hydroxide, Sodium metasilicate)
Hazard Class	8
Packing Group	III
Reportable Quantity (RQ)	potassium hydroxide 1000 lbs

“Per 49 CFR 173.154, Corrosive Materials (class 8) in Packing Group I - II may be reclassified as Limited Quantities in inner packaging of 1.3 gallons or less and are excepted from the labeling requirements.”

IATA

UN/ID No UN1760
Proper shipping name Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium metasilicate)
Hazard Class 8
Packing Group III
UN/ID No UN1760

IMDG

UN/ID No UN1760
Proper shipping name Corrosive liquid, n.o.s. (Potassium hydroxide, Sodium metasilicate)
Hazard Class 8
Packing Group III
UN/ID No UN1760

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 313/312 HAZARD CATEGORIES

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Potassium hydroxide 1310-58-3	1000 lb			X

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

U.S. STATE REGULATIONS

U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
Potassium hydroxide 1310-58-3	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