
SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade Name : E-Max Detergent
Product Code : 00E504
Material Uses : Liquid Laundry Detergent

Supplier/Manufacturer : Dober
11230 Katherine's Crossing
Woodridge, IL 60517

Emergency Phone : 800-255-3924 (Chem-Tel)
Information Phone : 630-410-7300

SECTION 2: HAZARDS IDENTIFICATION

Physical State and Appearance : Transparent Liquid
Emergency Overview : WARNING!
May cause skin, eye, and respiratory irritation.
Routes of Entry : Skin, eyes, inhalation and ingestion.
Potential Acute Health Effects
Eyes : Causes eye irritation.
Skin : May cause skin irritation.
Ingestion : May be harmful if swallowed.
Inhalation : May cause respiratory tract irritation.
Potential Chronic Health Effects : Carcinogenic effects: Not classified as a carcinogen
Mutagenic effects: Not classified as a mutagen
Teratogenic effects: Not classified as a teratogen
Medical Conditions Generally Aggravated by Exposure : Pre-existing skin disorders such as dermatitis

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	CAS No.	% by weight
Alcohol ethoxylates	68551-12-2	50-90
Diethylene glycol butyl ether	112-34-5	2-20

See Section 8 for Exposure Limits.

See Section 11 for Toxicological Data.

SECTION 4: FIRST AID MEASURES

Eye Contact : In case of eye contact flush at once with plenty of water for at least 15 minutes.
Remove contacts if easy to do so. Contact a physician at once.
Skin Contact : In case of contact immediately flush skin with plenty of water. Remove contaminated clothing and shoes.
Ingestion : If large quantities of this material are swallowed, contact a physician at once.
Do not induce vomiting. Never give anything by mouth to an unconscious person.
Inhalation : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Notes to Physician : Contact Poison Control.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the product	: May be combustible at elevated temperatures
Flash Points (Test Method)	: >205°F (closed cup)
Flammable Limits in Air (% by volume)	
Lower	: Not determined
Upper	: Not determined
Products of Combustion	: Carbon oxides
Extinguishing Media	: Use media suitable for surrounding fire. Water, dry chemical, or CO ₂ .
Special Firefighting Procedures	: Wear SCBA and protective clothing.
Unusual Fire and Explosion Hazards	: None known.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	: Use appropriate personal protective equipment.
Environmental Precautions	: Do not flush to sewer or allow to enter waterways.
Methods for Cleaning Up	: Absorb spill onto sand, clay, etc. and shovel into steel container for disposal.

SECTION 7: HANDLING AND STORAGE

Handling and Storage	: Keep container closed. Do not contact eyes or skin. Do not take internally.
Other Precautions	: FOR INDUSTRIAL USE ONLY.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	
Ingredient Name	Exposure Limits
Diethylene glycol butyl ether	Not established
Engineering Controls	: Keep airborne concentrations below personal exposure limits. General exhaust is sufficient when material is used as intended.
Personal Protection	
Eyes	: Safety glasses with side shields or chemical splash goggles.
Skin	: Other protective clothing depending on degree of exposure. Lab coat recommended to prevent skin contact.
Respiratory	: Not required when material is used as intended.
Hands	: Chemical resistant, nitrile gloves.
Personal Protection in Case Of a Large Spill	: Use appropriate personal protective equipment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State and Appearance	: Semi-viscous transparent liquid
Color	: Colorless to faint yellow
Odor	: Sweet, detergent like
pH	: 6-8
Boiling Point	: > 212°F
Melting Point	: < 40°F
Vapor Pressure (mmHg)	: Not determined

Vapor Density (Air = 1) : Not determined
Specific Gravity : 0.97
 $(H_2O = 1)$
Evaporation Rate : Slower than water
% Volatiles by volume : 25%
Viscosity : 70 cps at 70°F
Solubility : Miscible with water

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity : Stable.
Conditions of instability : None known.
Incompatibility with various Substances : Strong oxidizers, reducing agents.
Hazardous Decomposition Products : Oxides of carbon, oxides of nitrogen, oxides of sulfur.
Hazardous Polymerization : Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
Alcohol ethoxylates	LD50	>5.00 g/kg	Oral	Rat
Diethylene glycol butyl ether	LD50	5660 mg/kg	Oral	Rat

Potential Chronic Effects : Carcinogenic effects: Not classified as a carcinogen
 Mutagenic effects: Not classified as a mutagen
 Teratogenic effects: Not classified as a teratogen

Other Toxic Effects on Humans : Pre-existing skin disorders such as dermatitis

SECTION 12: ECOLOGICAL INFORMATION

Environmental Precautions : Avoid release into water way, potentially toxic to fish.
Products of Degradation : Not determined
Toxicity of the products of Degradation : Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Method : Comply with all federal, state, and local regulations. Consult state and local authorities for restrictions on disposal of chemical waste. If approved, may be diluted and drained to a municipal sewer or waste treatment plant. Rinse empty container thoroughly with water before discarding.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Additional Information
United States (DOT)	UN3082	Environmentally Hazardous Substance, Liquid, N.O.S.	9	III	Label Marine Pollutant (Contains: Alcohol Ethoxylates)
IATA	--	Non-Regulated	--	--	--

Regulatory Information	UN Number	Proper Shipping Name	Class	Packing Group	Additional Information
IMDG	UN3082	Environmentally Hazardous Substance, Liquid, N.O.S.	9	III	Label Marine Pollutant (Contains: Alcohol Ethoxylates)

Section 14 notes: Non Bulk DOT shipments are Non- Regulated

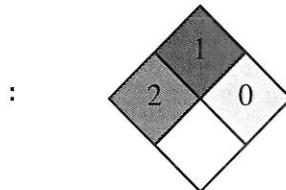
SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations	: SARA 302/304 extremely hazardous substances		
	<u>Amount</u> <0.001%	<u>Component</u> Residual Ethylene Oxide	<u>CAS</u> 75-21-8
State Regulations	: CT (Connecticut), FL (Florida), IL (Illinois), MI (Michigan), LA (Louisiana), MA (Massachusetts), NJ (New Jersey), PA (Pennsylvania), RI (Rhode Island)		
WARNING: This product contains chemical/chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.: Ethylene Oxide 75-21-8			
International Regulations	: Available on request.		

SECTION 16: OTHER INFORMATION

Label Requirements	: Causes eye irritation; may cause irritation to skin and respiratory tract.										
Hazardous Material Information System (U.S.A.)	: <table border="1"> <tr> <td>Health</td> <td>2</td> </tr> <tr> <td>Fire Hazard</td> <td>1</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> <tr> <td>Personal Protection</td> <td>B</td> </tr> </table>	Health	2	Fire Hazard	1	Reactivity	0	Personal Protection	B	Hazard Ratings	4 = Extreme 3 = Serious 2 = Moderate 1 = Slight 0 = Minimal
Health	2										
Fire Hazard	1										
Reactivity	0										
Personal Protection	B										
* See section 8 for more detailed information on personal protection											

National Fire Protection Association (U.S.A.)



References : Available on request.

Disclaimer

All information, recommendations, and suggestions appearing herein concerning this compound are based upon data obtained from the raw material manufacturers and/or recognized technical sources; however, Dober Chemical Corp. makes no warranty, representation, or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of the product. Since actual use by others is beyond our control, Dober Chemical makes no warranty, express or implied, as to the effects of such use, the results to be obtained or the safety and toxicity of the product. The data in this MSDS relate



E-Max Detergent

only to the specific product designated herein and do not relate to use in combination with any other material or in any process.