

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Diethylene Glycol Monoethyl Ether (DE)
Product No D018
Company Dynamic N.A. Inc
Address 23 Captains Walk, Milford, CT 06460, U.S.A.
Phone 1 914 965 2077
Fax 1 914 375 2093

Section 2 - Composition/Information On Ingredients

Synonyms 2(2-Ethoxyethoxy)ethanol, Ethyldigol, DE
CAS # 111-90-0
Formula C₆H₁₄O₃

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

OSHA HAZARDS

Target Organ Effect

TARGET ORGANS

Liver, Kidney

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS

Pictogram none

Signal word Warning

Hazard statement(s)

H316 Causes mild skin irritation.

H320 Causes eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS CLASSIFICATION

Health hazard: 0

Chronic Health Hazard: *

Flammability: 1

Physical hazards: 0

NFPA RATING

Health hazard: 0

Fire: 1

Reactivity Hazard: 0

POTENTIAL HEALTH EFFECTS

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

Section 4 - First Aid Measures

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

IF INHALED

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

IN CASE OF SKIN CONTACT

Wash off with soap and plenty of water. Consult a physician.

IN CASE OF EYE CONTACT

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

IF SWALLOWED

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

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SUITABLE EXTINGUISHING MEDIA

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

CONDITIONS FOR SAFE STORAGE

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic

Section 8 - Exposure Controls / Personal Protection

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

EYE PROTECTION

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

HYGIENE MEASURES

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical And Chemical Properties

Appearance	Colorless, liquid, clear
Molecular Weight:	134.17 g/mol
pH	no data available
Melting point	no data available
Boiling point	202 °C (396 °F) - lit.
Flash point	96 °C (205 °F) - closed cup
Ignition temperature	204 °C (399 °F)
Lower explosion limit	1.2 %(V)
Upper explosion limit	23.5 %(V)
Vapour pressure	0.16 hPa (0.12 mmHg) at 20 °C (68 °F)
Density	0.999 g/cm ³ at 25 °C (77 °F)
Water solubility	soluble

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Relative vapour 4.63
Density - (Air = 1.0)
Evaporation rate 0.02

Section 10 - Stability and Reactivity

CHEMICAL STABILITY

Stable under recommended storage conditions.

CONDITIONS TO AVOID

no data available

MATERIALS TO AVOID

Strong oxidizing agents, Strong acids, Acid chlorides, Acid anhydrides

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11 - Toxicological Information

ACUTE TOXICITY

Acute toxicity

LD50 Oral - rat - 10,502 mg/kg

LC50 Inhalation - rat - > 200 mg/l

LD50 Dermal - rabbit - 9,143 mg/kg

SKIN CORROSION/IRRITATION

Skin - rabbit - Mild skin irritation

SERIOUS EYE DAMAGE/EYE IRRITATION

Eyes - rabbit - Mild eye irritation

RESPIRATORY OR SKIN SENSITIZATION

no data available

GERM CELL MUTAGENICITY

no data available

CARCINOGENICITY

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

POTENTIAL HEALTH EFFECTS

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

SIGNS AND SYMPTOMS OF EXPOSURE

Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

ADDITIONAL INFORMATION

RTECS: KK8750000

Section 12 - Ecological Information

TOXICITY

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 9,650 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates.

LC50 - Daphnia magna (Water flea) - 3,340 mg/l - 48 h

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Section 13 - Disposal Considerations

PRODUCT

Offer surplus and non-recyclable solutions to a licensed disposal company.

CONTAMINATED PACKAGING

Dispose of as unused product.

Section 14 - Transport Information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15 - Regulatory Information

OSHA HAZARDS

Target Organ Effect

DSL STATUS

All components of this product are on the Canadian DSL list.

SARA 302 COMPONENTS

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 COMPONENTS

2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0	Revision Date 1995-01-01
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SARA 311/312 HAZARDS

Chronic Health Hazard

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS

2-(2-Ethoxyethoxy)ethanol	CAS-No. 111-90-0	Revision Date 1995-01-01
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New Jersey Right To Know Components

2-(2-Ethoxyethoxy)ethanol	CAS-No. 1995-01-0	Revision Date 1111-90-0
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California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Section 16 - Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.