

## Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

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Section 1 - Product And Company Information

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Product Propylene Glycol Monoethyl Ether (PE)  
Product No D003  
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

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Section 2 - Composition/Information On Ingredients

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Synonyms 1-Ethoxy-2-propanol, PE  
CAS # 1569-02-4  
Formula  $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}(\text{OH})\text{CH}_3$

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Section 3 - Hazards Identification

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HAZARD DESCRIPTION: Not applicable.

INFORMATION CONCERNING PARTICULAR HAZARDS FOR HUMAN AND ENVIRONMENT:

R 10 Flammable.

R 67 Vapours may cause drowsiness and dizziness.

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Section 4 - First Aid Measures

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AFTER INHALATION: Supply fresh air; consult doctor in case of complaints.

AFTER SKIN CONTACT: Generally the product does not irritate the skin.

AFTER EYE CONTACT: Rinse opened eye for several minutes under running water.

AFTER SWALLOWING: If symptoms persist consult doctor.

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Section 5 - Fire Fighting Measures

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SUITABLE EXTINGUISHING AGENTS:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

PROTECTIVE EQUIPMENT: No special measures required.

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Section 6 - Accidental Release Measures

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PERSON-RELATED SAFETY PRECAUTIONS:

Wear protective equipment. Keep unprotected persons away.

MEASURES FOR ENVIRONMENTAL PROTECTION:

Do not allow to enter sewers/ surface or ground water.

MEASURES FOR CLEANING/COLLECTING:

Dilute with plenty of water.

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Section 7 - Handling and Storage

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HANDLING:

Information for safe handling: No special requirement

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

STORAGE:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

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Section 8 - Exposure Controls / Personal Protection

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ADDITIONAL INFORMATION ABOUT DESIGN OF TECHNICAL FACILITIES: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

PERSONAL PROTECTIVE EQUIPMENT:

General protective and hygienic measures: Wash hands before breaks and at the end of work.

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Respiratory protection: Not required.

**PROTECTION OF HANDS:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**MATERIAL OF GLOVES**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

**PENETRATION TIME OF GLOVE MATERIAL**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**EYE PROTECTION:**

Tightly sealed goggles

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**Section 9 - Physical And Chemical Properties**

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Appearance	Liquid
Molecular Weight:	148.2 g/mol
Melting point/Melting range:	-90°C
Boiling point/Boiling range:	132°C
Flash point:	42°C
Ignition temperature:	255°C
Explosion limits:	
Lower:	1.3 Vol %
Upper:	12 Vol %
Vapour pressure at 20°C:	10 hPa
Density at 20°C:	0.896 g/cm <sup>3</sup>
Solubility in water at 20°C:	0.10 w/w
Viscosity at 20°C:	2.1 mPas

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**Section 10 - Stability and Reactivity**

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Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

Dangerous reactions No dangerous reactions known.

Dangerous decomposition products: No dangerous decomposition products known.

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**Section 11 - Toxicological Information**

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**ACUTE TOXICITY**

Oral LD50 4900 mg/kg (rat)

Dermal LD50 9500 mg/kg (rab)

**PRIMARY IRRITANT EFFECT:**

on the skin: No irritant effect.

on the eye: No irritating effect.

Sensitization: No sensitizing effects known.

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**Section 12 - Ecological Information**

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**GENERAL NOTES:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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**Section 13 - Disposal Considerations**

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**PRODUCT:****RECOMMENDATION**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**UNCLEANED PACKAGING:**

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RECOMMENDATION: Disposal must be made according to official regulations.

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### Section 14 - Transport Information

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Maritime transport IMDG:  
Marine pollutant: No

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### Section 15 - Regulatory Information

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#### LABELLING ACCORDING TO EU GUIDELINES:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

#### RISK PHRASES:

10 Flammable.

67 Vapours may cause drowsiness and dizziness.

#### SAFETY PHRASES:

2 Keep out of the reach of children.

24 Avoid contact with skin.

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### Section 16 - Other Information

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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.