

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Polyethylene Glycol Dimethyl Ether (NHD)
Product No D037
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 Dimethyl polyethylene glycol, NHD
CAS # 24991-55-7
Formula $\text{CH}_3\text{O}(\text{CH}_2\text{CH}_2\text{O})_n\text{CH}_3$, n=3-8

Section 3 - Hazards Identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

LABEL ELEMENTS

Caution - substance not yet tested completely.

Section 4 - First Aid Measures

DESCRIPTION OF FIRST AID MEASURES

GENERAL ADVICE

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

Flush eyes with water as a precaution.

IF SWALLOWED

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

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

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

Section 5 - Fire Fighting Measures

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA

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

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Nature of decomposition products not known.

PRECAUTIONS FOR FIRE-FIGHTERS

Wear self contained breathing apparatus for fire fighting if necessary.

FURTHER INFORMATION

No data available

Section 6 - Accidental Release Measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear respiratory protection. 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.

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REFERENCE TO OTHER SECTIONS

For disposal see section 13.

Section 7 - Handling and Storage

PRECAUTIONS FOR SAFE HANDLING

Normal measures for preventive fire protection.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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

hygroscopic Store under inert gas.

Section 8 - Exposure Controls / Personal Protection

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS

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

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE 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 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

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.

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).

Section 9 - Physical And Chemical Properties

Appearance	Light brown liquid
pH	no data available
Melting point	36 - 40 °C
Boiling point	> 250 °C at 1.013 hPa
Flash point	156,00 °C - closed cup
Evaporation rate	no data available
Flammability (solid, gas)	no data available
Vapour pressure	no data available
Vapour density	no data available
Relative density	no data available

Section 10 - Stability and Reactivity

INCOMPATIBLE MATERIALS

Strong oxidizing agents

Section 11 - Toxicological Information

ACUTE TOXICITY

LD50 Oral - rat - > 2.000 mg/kg

SKIN CORROSION/IRRITATION

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Skin - rabbit - Mild skin irritation- - 24 h

SERIOUS EYE DAMAGE/EYE IRRITATION

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.

REPRODUCTIVE TOXICITY

Reproductive toxicity - rabbit - Oral

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

Paternal Effects: Testes, epididymis, sperm duct.

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 Causes eye irritation.

SIGNS AND SYMPTOMS OF EXPOSURE

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

ADDITIONAL INFORMATION

RTECS: MC9630000

Section 12 - Ecological Information

no data available

Section 13 - Disposal Considerations

WASTE TREATMENT METHODS

PRODUCT

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

CONTAMINATED PACKAGING

Dispose of as unused product.

Section 14 - Transport Information

UN PROPER SHIPPING NAME

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Section 15 - Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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.