

## 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

Product	Tetraethylene Glycol Dimethyl Ether (TETREDM)
Product No	D023
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

Synonyms	Dimethoxytetraethylene glycol, Bis[2-(2-methoxyethoxy)ethyl] ether
CAS #	143-24-8
Formula	C <sub>10</sub> H <sub>22</sub> O <sub>5</sub>

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Section 3 - Hazards Identification

## EMERGENCY OVERVIEW

No known OSHA hazards

## HMIS CLASSIFICATION

Health Hazard: 0

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.

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Section 4 - First Aid Measures

## 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.

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Section 5 - Fire Fighting Measures

## FLAMMABLE PROPERTIES

Flash point 141 °C (286 °F) - closed cup

Ignition temperature 266 °C (511 °F)

## 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.

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Section 6 - Accidental Release Measures

## PERSONAL PRECAUTIONS

Avoid breathing vapors, mist or gas.

## ENVIRONMENTAL PRECAUTIONS

Do not let product enter drains.

## METHODS FOR CLEANING UP

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Keep in suitable, closed containers for disposal.

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**Section 7 - Handling and Storage**

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**HANDLING**

Normal measures for preventive fire protection.

**STORAGE**

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

Air sensitive.

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**Section 8 - Exposure Controls / Personal Protection**

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Contains no substances with occupational exposure limit values.

**PERSONAL PROTECTIVE EQUIPMENT****Respiratory protection**

Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**HAND PROTECTION**

For prolonged or repeated contact use protective gloves.

**EYE PROTECTION**

Safety glasses

**SKIN AND BODY PROTECTION**

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**HYGIENE MEASURES**

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

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**Section 9 - Physical And Chemical Properties**

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Appearance	Colorless clear liquid
Molecular Weight:	222.28 g/mol
pH	n/a
Melting point	-30 °C (-22 °F)
Boiling point	275 - 276 °C (527 - 529 °F)
Flash point	141 °C (286 °F) - closed cup
Ignition temperature	266 °C (511 °F)
Lower explosion limit	n/a
Upper explosion limit	n/a
Vapour pressure	< 0.01 hPa (< 0.01 mmHg) at 20 °C (68 °F)
Density	1.009 g/mL at 25 °C (77 °F)
Water solubility	n/a
Relative vapour	7.67
Density	- (Air = 1.0)

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**Section 10 - Stability and Reactivity**

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**STORAGE STABILITY**

Stable under recommended storage conditions.

**MATERIALS TO AVOID**

Strong acids, Oxidizing agents, Oxygen

**HAZARDOUS DECOMPOSITION PRODUCTS**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

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**Section 11 - Toxicological Information**

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**ACUTE TOXICITY**

LD50 Oral - rat - 5,140 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Gastrointestinal:Other changes. Kidney, Ureter,

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Bladder:Other changes.

## IRRITATION AND CORROSION

Eyes - rabbit - Mild eye irritation

## SENSITISATION

n/a

## CHRONIC EXPOSURE

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.

## 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.

## POTENTIAL HEALTH EFFECTS

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

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## ADDITIONAL INFORMATION

RTECS: SB0400000

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Section 12 - Ecological Information

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n/a

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Section 13 - Disposal Considerations

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## PRODUCT

Observe all federal, state, and local environmental regulations.

## CONTAMINATED PACKAGING

Dispose of as unused product.

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Section 14 - Transport Information

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## DOT (US)

Not dangerous goods

## IMDG

Not dangerous goods

## IATA

Not dangerous goods

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Section 15 - Regulatory Information

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## OSHA HAZARDS

No known OSHA hazards

## 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

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

## SARA 311/312 HAZARDS

No SARA Hazards

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### 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.