

Material Safety Data Sheet

Date Created: 03/07/2009

Date Updated: 02/06/2010

Version: 1.0

Section 1 - Product And Company Information

Product Ethylene Glycol Dimethyl Ether (EDM)
Product No D012
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 1,2-Dimethoxyethane, Monoglyme, Dimethylglycol
CAS # 110-71-4
Formula C₄H₁₀O₂

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

OSHA Hazards: Flammable liquid, Target Organ Effect, Reproductive hazard

Target Organs: Liver, Kidney, Blood, Central nervous system, Female reproductive system., Male reproductive system.

GHS Label elements, including precautionary statements

Signal word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H303 May be harmful if swallowed.

H332 Harmful if inhaled.

H360 May damage fertility or the unborn child.

Precautionary statement(s)

P201 Obtain special instructions before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

HMIS CLASSIFICATION

Health hazard: 1

Chronic Health Hazard: *

Flammability: 3

Physical hazards: 3

NFPA RATING

Health hazard: 2

Fire: 3

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with

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Molecular Weight:	90.12 g/mol
pH	n/a
Melting point	-58 °C (-72 °F) - lit.
Boiling point	85 °C (185 °F) - lit.
Flash point	5 °C (41 °F) - closed cup
Ignition temperature	202 °C (396 °F)
Lower explosion limit	1.6 %(V)
Upper explosion limit	10.4 %(V)
Vapour pressure	64 hPa (48 mmHg) at 20 °C (68 °F)
Density	0.867 g/cm ³ at 25 °C (77 °F)
Water solubility	soluble
Relative vapour	3.11
Density	- (Air = 1.0)

Section 10 - Stability and Reactivity

CHEMICAL STABILITY

Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS

Vapours may form explosive mixture with air.

CONDITIONS TO AVOID

Heat, flames and sparks.

MATERIALS TO AVOID

Oxidizing agents, Strong acids

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Section 11 - Toxicological Information

ACUTE TOXICITY

LD50 Oral - mouse - 3,200 mg/kg

SKIN CORROSION/IRRITATION

n/a

SERIOUS EYE DAMAGE/EYE IRRITATION

n/a

RESPIRATORY OR SKIN SENSITIZATION

n/a

GERM CELL MUTAGENICITY

n/a

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.

REPRODUCTIVE TOXICITY

May cause congenital malformation in the fetus.

Presumed human reproductive toxicant

May cause reproductive disorders.

SPECIFIC TARGET ORGAN TOXICITY - single exposure (GHS)

n/a

SPECIFIC TARGET ORGAN TOXICITY - repeated exposure (GHS)

n/a

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ASPIRATION HAZARD

n/a

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SIGNS AND SYMPTOMS OF EXPOSURE

Narcosis, Exposure to and/or consumption of alcohol may increase toxic effects.

ADDITIONAL INFORMATION

RTECS: KI1451000

Section 12 - Ecological Information

n/a

Section 13 - Disposal Considerations

PRODUCT

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

Contact a licensed professional waste disposal service to dispose of this material.

CONTAMINATED PACKAGING

Dispose of as unused product.

Section 14 - Transport Information

DOT (US)

UN-Number: 2252 Class: 3 Packing group: II

Proper shipping name: 1,2-Dimethoxyethane

Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN-Number: 2252 Class: 3 Packing group: II EMS-No: F-E, S-D

Proper shipping name: 1,2-DIMETHOXYETHANE

Marine pollutant: No

IATA

UN-Number: 2252 Class: 3 Packing group: II

Proper shipping name: 1,2-Dimethoxyethane

Section 15 - Regulatory Information

OSHA HAZARDS

Flammable liquid, Target Organ Effect, Reproductive hazard

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

Ethylene glycol dimethyl ether CAS-No.:110-71-4 Revision Date: 1993-04-24

SARA 311/312 HAZARDS

Fire Hazard, Chronic Health Hazard

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.