DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS MSDS

CAS-No.: 111-77-3 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
	:
CAS-No.	: 111-77-3
Product code	: 0106D

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture   : Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Labogens Fine Chem Industries
1st Floor , Above Bank of India, Guru Vihar , Rahon Road,
Ludhiana Pb. (141007)
+91 9316777775, +91 7707855700
sales@labogens.com   - www.Labogens.com

1.4. Emergency telephone number

Emergency number   : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Reproductive toxicity,   H361d
Category 2

Full text of hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Muta.Cat.3; R68
Xi; R36
Full text of R-phrases: see section 16

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Adverse physicochemical, human health and environmental effects

No additional information available

2.2.   Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)   :

GHS08

Signal word (CLP)   : Warning
Hazard statements (CLP)   : H361d - Suspected of damaging the unborn child.
Precautionary statements (CLP)   : P281 - Use personal protective equipment as required.

2.3.   Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1.   Substances

Name	Product identifier	%
DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS	(CAS-No.) 111-77-3	100

Full text of R- and H-statements: see section 16

3.2.   Mixtures

Not applicable

SECTION 4: First aid measures

4.1.   Description of first aid measures

First-aid measures after inhalation   : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact   : Gently wash with plenty of soap and water.
First-aid measures after eye contact   : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion   : Rinse mouth. Do not induce vomiting.

4.2.   Most important symptoms and effects, both acute and delayed

No additional information available

4.3.   Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1.   Extinguishing media

Suitable extinguishing media   : Carbon dioxide. Dry powder. Foam. Water spray.

Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: On land, sweep or shovel into suitable containers. Collect spillage.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid contact with skin and eyes. Do not breathe vapours.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection	: Protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: [In case of inadequate ventilation] wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Clear Colorless.
Odour	: faint pleasant odor.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -70 °C
Freezing point	: No data available
Boiling point	: 190 - 194 °C
Flash point	: 87 °C
Auto-ignition temperature	: 215 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 0.3 hPa at 20 °C
Relative vapour density at 20 °C	: 4.15
Relative density	: No data available
Density	: 1.02 g/ml at 20 °C
Solubility	: Water: Miscible in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 3.9 mPa.s @ 20°C
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: 0.0138 - 0.227 vol %

9.2. Other information

No additional information available

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Safety Data Sheet

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS (111-77-3)	
Viscosity, kinematic	3.82352941 mm²/s

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations	: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
UN-No. (ADN)	: Not applicable
UN-No. (RID)	: Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable
Proper Shipping Name (ADN)	: Not applicable
Proper Shipping Name (RID)	: Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	: Not applicable

IMDG

Transport hazard class(es) (IMDG)	: Not applicable

IATA

Transport hazard class(es) (IATA)	: Not applicable

ADN

Transport hazard class(es) (ADN)	: Not applicable

DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS
Safety Data Sheet

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RID

Transport hazard class(es) (RID)   : Not applicable

14.4.   Packing group

Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
Packing group (ADN)	: Not applicable
Packing group (RID)	: Not applicable

14.5.   Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6.   Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7.   Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1.   Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1.   EU-Regulations

No REACH Annex XVII restrictions
DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS is not on the REACH Candidate List
DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS is not on the REACH Annex XIV List

15.1.2.   National regulations

Germany

12th Ordinance Implementing the Federal   : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Immmission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	DIETHYLENE GLYCOL MONOMETHYL ETHER FOR SYNTHESIS is listed

Denmark

Class for fire hazard	:	Class III-1
Store unit	:	50 liter
Classification remarks	:	Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Recommendations Danish Regulation	:	Young people below the age of 18 years are not allowed to use the product
		Pregnant/breastfeeding women working with the product must not be in direct contact with the product
		The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2.   Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-statements:

Repr. 2	Reproductive toxicity, Category 2
H361d	Suspected of damaging the unborn child.
R36	Irritating to eyes
R68	Possible risk of irreversible effects
Xi	Irritant

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product