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# Diethylene Glycol Mono Methyl Ether CAS No 111-77-3

# MATERIAL SAFETY DATA SHEET SDS/MSDS

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

1.1	Product identifiers Product name :	Diethylene Glycol Mono Methyl Ether		
	CAS-No. :	111-77-3		
1.2	Relevant identified uses of th	e substance or mixture and uses advised against		
	Identified uses :	Laboratory chemicals, Industrial & for professional use only.		
1.3	Details of the supplier of the s Company : Telephone : Email :	safety data sheet Central Drug House (P) Ltd 7/28 Vardaan House Ansari Road Daryaganj New Delhi-110002 INDIA +91 11 49404040 care@cdhfinechemical.com_		
1.4	Emergency telephone number Emergency Phone # :	+91 11 49404040 (9:00am - 6:00 pm) [Office hours]		
SECI	ION 2: Hazards identification			
2.1	2.1 Classification of the substance or mixture			
	Classification according to Re Reproductive toxicity (Category			
	For the full text of the H-Statements mentioned in this Section, see Section 16.			
	Classification according to EU Directives 67/548/EEC or 1999/45/EC R63			
	For the full text of the R-phrase	s mentioned in this Section, see Section 16.		
2.2	.2 Label elements			
	Labelling according Regulation (EC) No 1272/2008 Pictogram			
		Aspirate Incare		

Signal word Hazard statement(s) H361d Precautionary statement(s) P281 Warning

Suspected of damaging the unborn child.

Use personal protective equipment as required.

Supplemental Hazard none Statements

# 2.3 Other hazards - none

#### **SECTION 3: Composition/information on ingredients**

3.1	Substances				
	Synonyms	:	2-(2-Methoxyethoxy)e Methyldiglycol Methyl CARBITOL®	thanol	
	Formula	:	C5H12O3		
	Molecular Weight CAS-No. EC-No. Index-No.	:	120,15 g/mol 111-77-3 203-906-6 603-107-00-6		
	Hazardous ingredients ac Component	cord	ding to Regulation (EC)	No 1272/2008 Classification	Concentration
	2-(2-Methoxyethoxy)ethanol				
	CAS-No. EC-No. Index-No.	20	1-77-3 3-906-6 3-107-00-6	Repr. 2; H361d	<= 100 %
	Hazardous ingredients according to Directive 1999/45/EC				
	Component	0010		Classification	Concentration
	2-(2-Methoxyethoxy)ethanol				
	CAS-No. EC-No. Index-No.	11 20	1-77-3 3-906-6 3-107-00-6	Xn, Repr.Cat.3, R63	<= 100 %

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

# **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General advice**

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

#### lf 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

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

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3** Indication of any immediate medical attention and special treatment needed no data available

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media

**Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture Carbon oxides
- 5.3 Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information Use water spray to cool unopened containers.

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

#### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections For disposal see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Store under inert gas. hygroscopic

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

# 8.2 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.

#### **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).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

boiling range

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: light yellow
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	Melting point/range: -70 °C - lit.
f)	Initial boiling point and	194 °C - lit.

	g)	Flash point	87 °C - closed cup	
	h)	Evapouration rate	no data available	
	i)	Flammability (solid, gas)	no data available	
	j)	Upper/lower flammability or explosive limits	Upper explosion limit: 22,7 %(V) Lower explosion limit: 1,38 %(V)	
	k)	Vapour pressure	0,3 hPa at 20 °C	
	I)	Vapour density	4,15 - (Air = 1.0)	
	m)	Relative density	1,023 g/cm3 at 25 °C	
	n)	Water solubility	completely miscible	
	o)	Partition coefficient: n- octanol/water	log Pow: -0,47 at 20 °C	
	p)	Auto-ignition temperature	no data available	
	q)	Decomposition temperature	no data available	
	r)	Viscosity	no data available	
	s)	Explosive properties	no data available	
	t)	Oxidizing properties	no data available	
9.2	Oth	ner safety information		
		Relative vapour density	4,15 - (Air = 1.0)	
SEC	ΓΙΟΝ	10: Stability and reactivit	у	
10.1 Reactivity no data available				
10.2	2 Chemical stability Stable under recommended storage conditions.			
10.3	3 Possibility of hazardous reactions no data available			
10.4	4 Conditions to avoid Heat, flames and sparks.			
10.5	5 Incompatible materials Strong oxidizing agents			
10.6	<b>10.6 Hazardous decomposition products</b> Other decomposition products - no data available In the event of fire: see section 5			
SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
	Acute toxicity LD50 Oral - rat - > 7.000 mg/kg			

LD50 Oral - rat - > 7.000 mg/kg

LD50 Dermal - rabbit - > 20.400 mg/kg

LD50 Dermal - rabbit - 9.404 mg/kg

# Skin corrosion/irritation Skin - rabbit Result: No skin irritation - 72 h

#### Serious eye damage/eye irritation

Eyes - rabbit Result: No eye irritation - 72 h

#### Respiratory or skin sensitisation

Maximisation Test - guinea pig Result: Does not cause skin sensitisation.

#### Germ cell mutagenicity no data available

# 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**

Possible risk of congenital malformation in the fetus. Suspected human reproductive toxicant

Overexposure may cause reproductive disorder(s) based on tests with laboratory animals.

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Additional Information RTECS: KL6125000

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

Toxicity to fish	Toxicity to fish	LC50 - Lepomis macrochirus - 7.500 mg/l - 96 h
		LC50 - Pimephales promelas (fathead minnow) - 5.741 mg/l - 96 h
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 1.192 mg/l - 48 h
	Toxicity to algae	EC50 - Selenastrum capricornutum (green algae) - > $1.000 \text{ mg/l}$ - 96 h

- 12.2 Persistence and degradability

   Biodegradability
   Result: 100 % Readily biodegradable.
- 12.3 Bioaccumulative potential no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

# 12.6 Other adverse effects

no data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

14.1	UN number ADR/RID: -	IMDG: -	IATA: -
14.2	UN proper shipping nameADR/RID:Not dangerous goodsIMDG:Not dangerous goodsIATA:Not dangerous goods		
14.3	Transport hazard class(es) ADR/RID: -	IMDG: -	IATA: -
14.4	Packaging group ADR/RID: -	IMDG: -	IATA: -
14.5	Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no
14.6	Special precautions for user		

no data available

#### **SECTION 15: Regulatory information**

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

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

no data available

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

H361d	Suspected of damaging the unborn child.
Repr.	Reproductive toxicity

# Full text of R-phrases referred to under sections 2 and 3

Xn	Harmful
R63	Possible risk of harm to the unborn child.
Repr.Cat.3	Toxic to Reproduction Category 3

#### **Further 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. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.