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 the substance or mixture and uses advised against**
   - **Identified uses**: Laboratory chemicals, Industrial & for professional use only.

1.3 **Details of the supplier of the safety data sheet**
   - **Company**: Central Drug House (P) Ltd
     7/28 Vardaan House
     New Delhi-10002
     INDIA
   - **Telephone**: +91 11 49404040
   - **Email**: care@cdhfinechemical.com

1.4 **Emergency telephone number**
   - **Emergency Phone #**: +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

SECTION 2: Hazards identification

2.1 **Classification of the substance or mixture**
   - **Classification according to Regulation (EC) No 1272/2008**
     Reproductive toxicity (Category 2), H361d
   - **Classification according to EU Directives 67/548/EEC or 1999/45/EC**
     R63

   For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 **Label elements**
   - **Labelling according Regulation (EC) No 1272/2008**
     **Pictogram**

     - **Signal word**: Warning
     - **Hazard statement(s)**: Suspected of damaging the unborn child.
     - **Precautionary statement(s)**: Use personal protective equipment as required.
Supplemental Hazard: none

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms:
- 2-(2-Methoxyethoxy)ethanol
- Methyldiglycol
- Methyl CARBITOL®

Formula: C₅H₁₂O₃
Molecular Weight: 120.15 g/mol
CAS-No.: 111-77-3
EC-No.: 203-906-6
Index-No.: 603-107-00-6

Hazardous ingredients according to Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Methoxyethoxy)ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>111-77-3</td>
<td>Repr. 2; H361d</td>
</tr>
<tr>
<td>EC-No.</td>
<td>203-906-6</td>
<td></td>
</tr>
<tr>
<td>Index-No.</td>
<td>603-107-00-6</td>
<td></td>
</tr>
</tbody>
</table>

Hazardous ingredients according to Directive 1999/45/EC

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-(2-Methoxyethoxy)ethanol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS-No.</td>
<td>111-77-3</td>
<td>Xn, Repr.Cat.3, R63</td>
</tr>
<tr>
<td>EC-No.</td>
<td>203-906-6</td>
<td></td>
</tr>
<tr>
<td>Index-No.</td>
<td>603-107-00-6</td>
<td></td>
</tr>
</tbody>
</table>

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.

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
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.

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

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) pH
   no data available

e) Melting point/freezing point
   Melting point/range: -70 °C - lit.

f) Initial boiling point and boiling range
   194 °C - lit.
g) Flash point 87 °C - closed cup  
h) Evaporation 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  
l) 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 Other safety information  
  Relative vapour density 4.15 - (Air = 1.0)  

SECTION 10: Stability and reactivity  
10.1 Reactivity  
  no data available  
10.2 Chemical stability  
  Stable under recommended storage conditions.  
10.3 Possibility of hazardous reactions  
  no data available  
10.4 Conditions to avoid  
  Heat, flames and sparks.  
10.5 Incompatible materials  
  Strong oxidizing agents  
10.6 Hazardous decomposition products  
  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 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
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 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 name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: 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.