



Safety Data Sheet Diethylene glycol monoethyl ether

Section 1: Chemical Product and Company Identification

Product Name: Diethylene glycol monoethyl ether Contact Information:

Catalog Codes: 264

CAS#: 111-90-0 Email: info@drm-chem.com

RTECS: KK8750000 Address: #7, Afshar javan Alley, Sohrevardi

St ,Tehran, Iran

post code: 1551818111

Synonym: Carbitol, 2-(2-Ethoxyethoxy)-ethanol, Ethyl

diglycol

Chemical Name: Diethylene glycol monoethyl ether Tehran Sales: +98 21 88177760

Chemical Formula: C₆H₁₄O₃ Order Online: Drm-chem.com

Section 2: Composition and Information on Ingredients					
Composition:					
Name	CAS#	% by Weight			
Diethylene glycol monoethyl ether	111-90-0	-			

Toxicological Data on Ingredients: LD50 Oral - Mouse - male - 6.031 mg/kg. LD50 Dermal - Rabbit - male - 9.143 mg/kg

Section 3: Hazards Identification

Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 4: First Aid Measures

Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 3) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Firefighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Carbon oxides

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®).

Dispose of properly. Clean up affected area.

Reference to other sections

For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling

For precautions see section 3.

Conditions for safe storage, including any incompatibilities Storage conditions

Tightly closed.

Hygroscopic.

Section 8: Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other

substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Full contact

Material: butyl-rubber

Minimum layer thickness: 0,7 mm Break through time: 480 min

Material tested:Butoject® (KCL 898)

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substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell,

Internet: www.kcl.de).

Splash contact

Material: Latex gloves

Minimum layer thickness: 0,6 mm

Break through time: 30 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

Respiratory protection

Recommended Filter type: Filter A (acc. to DIN 3181) for vapours of organic

compounds

The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer.

These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

a) Appearance Form: liquid, clear

Color: colorless

b) Odor No data available

c) Odor Threshold No data available

d) pH No data available

e) Melting point: -78 °C

point/freezing point

f) Initial boiling point and boiling range

202 °C - lit.

g) Flash point

94 °C - closed cup

h) Evaporation rate

0,02

i) Flammability (solid, gas)

No data available

j) Upper/lower flammability or explosive limits Upper explosion limit: 23,5 %(V) Lower explosion limit: 1,2 %(V)

k) Vapor pressure

0,16 hPa at 20 °C

I) Vapor density

4,63 - (Air = 1.0)

m) Relative density

No data available

n) Water solubility

soluble

o) Partition coefficient:

n-octanol/water

No data available

p) Autoignition temperature

No data available

q) Decomposition

temperature

No data available

r) Viscosity Viscosity, kinematic: No data available

Viscosity, dynamic:

No data available

s) Explosive properties

No data available

t) Oxidizing properties

No data available

Other safety information

Relative vapor

4,63 - (Air = 1.0)

density

Section 10: Stability and Reactivity Data

Reactivity

Forms explosive mixtures with air on intense heating.

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

Exothermic reaction with:

Strong oxidizing agents

Generates dangerous gases or fumes in contact with:

Aluminum

Possible formation of:

Hydrogen

Violent reactions possible with:

metals

Acid chlorides

Acid anhydrides

Acids

Conditions to avoid

Strong heating.

Incompatible materials

Aluminum, artificial and/or natural resins, Copper

Hazardous decomposition products

In the event of fire: see section 5

Section 11: Toxicological Information

Information on toxicological effects Acute toxicity

LD50 Oral - Mouse - male - 6.031 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - 4 h - > 5.240 mg/m3

Remarks: Liver:Other changes.(RTECS)

LD50 Dermal - Rabbit - male - 9.143 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - Rabbit

Result: Mild skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit

Result: No eye irritation - 24 h (OECD Test Guideline 405)

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Remarks: (National Toxicology Program)

Test Type: Micronucleus test

Species: Mouse

Cell type: Bone marrow

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: negative

Test Type: unscheduled DNA synthesis assay

Species: Rat

Cell type: Liver cells
Application Route: Oral

Method: OECD Test Guideline 486

Result: negative

Carcinogenicity

No data available

Reproductive toxicity

No data available

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

Repeated dose toxicity - Rabbit - male and female - Dermal - 28 Days - NOAEL (No observed adverse effect level) - 300 mg/kg

RTECS: KK8750000

Nausea, Headache, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity

Toxicity to fish flow-through test LC50 - Ictalurus punctatus (channel catfish) - ca.

6.010 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia

static test LC50 - Daphnia magna (Water flea) - 1.982 mg/l - 48 h

and other aquatic invertebrates

(OECD Test Guideline 202)

Toxicity to algae

static test ErC50 - Pseudokirchneriella subcapitata - 14.861 mg/l -

72 h

(OECD Test Guideline 201)

Persistence and degradability

Biodegradability aerobic - Exposure time 12 d

Result: 79, 4 % - Readily biodegradable.

(OECD Test Guideline 301B)

Bioaccumulative potential

No data available

Mobility in soil

No data available

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent,

bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 1	14:	Trans	port	Information
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UN number

ADR/RID: - IMDG: - IATA: -

UN proper shipping name

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

Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

Packaging group

ADR/RID: - IMDG: - IATA: -

Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

Special precautions for user

Further information

Not classified as dangerous in the meaning of transport regulations.

Section 15: Other Regulatory Information

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

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

National legislation

Seveso III: Directive 2012/18/EU of the : Not applicable

European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

References: Not available

Other Special Considerations: Not available

Created: 08/2022

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