



Specialized in chemicals

Hefei TNJ Chemical Industry Co.,Ltd.

B911 Xincheng Business Center,
Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

Material Safety Data Sheet

Diethylene Glycol Diethyl Ether

Section 1: Chemical Product and Company Identification

Molecular formula: C₈H₁₈O₃

CAS Nr: 112-36-7

EINECS: 203-963-7

Molecular weight: 162.23 g/mol

Synonyms: 2-Ethoxyethyl ether; Bis(2-ethoxyethyl) ether; Diethyl Carbitol; Diethylene glycol diethyl ether

Contact Information for Emergency: (0086) 551 5418696

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230004Anhui

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS # %	By Weight
Diethylene Glycol Diethyl Ether	112-36-7	≥ 99.0%

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Emergency overview

Label precautionary statements

Harmful

Harmful if swallowed

Irritating to eyes, respiratory system and skin

May from explosive peroxides

Target Organ(s):

Female Reproductive system

Male reproductive system

Combustible

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Wear suitable protective clothing

Potential health effects

Inhalation:

Mild irritant if vapor or mist from heated solvent is inhaled. Coughing, possible breathing difficulties may be observed.

Ingestion:

Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.

Skin Contact:

Mild irritant, may cause some discomfort if in contact with the skin for several hours.

Eye Contact:

Causes irritation, redness, and pain. May possibly cause corneal clouding.

Chronic Exposure:

Minor skin irritation on repeated contact.

Aggravation of Pre-existing Conditions:

No information found.

Section 4: First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Section 5: Fire and Explosion Data

Boiling Point: 188.4°C

Flash point: 82°C

Vapor Pressure: 0.5 MMHG

Specific Gravity: 0.907

Vapor Density: 5.6 G/L

Explosion:

Above the flash point, explosive vapor-air mixtures may be formed.

Fire Extinguishing Media:

Dry chemical, foam or carbon dioxide.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Section 6: Accidental Release Measures

Personal precautions:

Ventilate area of leak or spill. Remove all sources of ignition. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions:

Contain and recover liquid when possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

Section 7: Handling and Storage

General advice:

Keep in a tightly closed container. Store in a cool, dry, ventilated area away from sources of heat or ignition. Protect against physical damage.

Storage incompatibility:

Store separately from reactive or combustible materials, and out of direct sunlight. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

Section 8: Exposure Controls/Personal Protection

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air

Purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

Section 9: Physical and Chemical Properties

Boiling Point: 188.4°C
Flash point: 82°C
Vapor Pressure: 0.5 MMHG
Specific Gravity: 0.907
Vapor Density: 5.6 G/L
Density: 0.907

Section 10: Stability and Reactivity Data

Stability:

Incompatibilities
Strong oxidizing agents
Strong Acids
Hazardous combustion or decomposition products
Carbon Monoxide and Carbon Dioxide

Section 11: Toxicological Information

Acute effects

In laboratory studies with this material, Birth defects, Fetotoxicity, Embryolethality, anemia, bone marrow damage, hemolysis, immunosuppression and damage to the male reproductive tissues have been observed.

Causes skin irritation

May be harmful if absorbed through the skin.

May be harmful if inhaled

Harmful if swallowed

Vapor or mist is irritating to the eyes, mucous membranes and upper respiratory tract.

Chronic Effects

Target organ(S):

Female reproductive system

Male reproductive system

Rtecs #: KN3160000

Ether, Bis(2-Ethoxyethyl)

Irritation Data

EYE-RBT 50 mCDS** 4/25/1958

Toxicity Data

ORL-RAT LD50:4970 MG/KG UCDS** 4/25/1958

SKN-RBT LD50:6700 UL/KG UCDS** 4/25/1958

ORL-GPG LD50:1850 MG/KG JIHTAB 23,259,1941
Target Organ Date
Behavioral (General Anesthetic)
Gastrointestinal (Other Changes)
Kidney,Ureter,Bladder(Other Changes)
Only Selected Registry of Toxic Effects Of Chemical Substances (Rtecs)
Data is presented here,see actual entry in ptecs in rtecs for complete information

Section 12: Ecological Information

Data not yet available

Section 13: Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section 14: Transport Information

Not regulated.

Section 15: Other Regulatory Information

Data not yet available

Section 16: Other Information

NFPA Ratings:

Health: 2 Flammability: 1 Reactivity: 0

Label Hazard Warning:

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. HARMFUL IF SWALLOWED OR INHALED. COMBUSTIBLE LIQUID AND VAPOR.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing vapor or mist.

Keep container closed.

Use only with adequate ventilation.

Keep away from heat and flame.

Wash thoroughly after handling.

Label First Aid:

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If swallowed, induce vomiting immediately as directed by medical

personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

References: Not available.

Other Special Considerations: Not available.

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