



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1

Revision date: 09/06/2019

Page 1 of 4

Revision date: 09/06/2019

SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Diethylene Glycol Monomethyl Ether (stabilized with BHT)
Product code: M0537
Company: TCI (Shanghai) DEVELOPMENT CO., LTD.
Address: No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Responsible Department: Sales Department
Telephone: +86-(0)21-67121386
Fax: +86-(0)21-67121385
e-mail: Sales-CN@TCIchemicals.com
Emergency telephone: 0532-83889090
Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral)

Category 5

Acute toxicity (Dermal)

Category 5

Reproductive toxicity

Category 1B

Specific target organ toxicity

Narcotic effects

- Single exposure [Category 3]

ENVIRONMENTAL HAZARDS

Not classified

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

May be harmful if swallowed or in contact with skin
May damage fertility or the unborn child
May cause drowsiness or dizziness

Precautionary statements

[Prevention]

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing mist, vapors or spray.
Use only outdoors or in a well-ventilated area.

[Response]

Wear protective gloves, protective clothing, face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

[Storage]

IF exposed or concerned: Get medical advice or attention.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national regulations.

Other hazards which do not result in classification

May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Diethylene Glycol Monomethyl Ether (stabilized with BHT)
Percent:	>99.0%(GC)
CAS RN:	111-77-3
Synonyms:	2-(2-Methoxyethoxy)ethanol (stabilized with BHT) , Methyl Carbitol (stabilized with BHT) , mPEG2-Alcohol (stabilized with BHT)
Chemical Formula:	C ₅ H ₁₂ O ₃

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Get medical advice/attention.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Get medical advice/attention.
Ingestion:	Get medical advice/attention. Rinse mouth.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water in large amounts, carbon dioxide.
Precautions for firefighters:	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.
Environmental precautions:	Prevent product from entering drains.
Methods and materials for containment and cleaning up:	Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE**Precautions for safe handling**

Technical measures:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
Advice on safe handling:	Avoid all contact! Confirm in advance if peroxides exist when operations involving heating such as distillation are carried out.

Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Hygroscopic
Packaging material:	Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid

Form: Clear

Colour: Colorless

Odour: Ether-like

pH: No data available

Melting point/freezing point: -70°C

Boiling point/range: 193°C

Flash point: 105°C

Flammability or explosive limits:

Lower: 1.4%

Upper: 22.7%

Vapour pressure: 30Pa/20°C

Vapour density: 4.1

Relative density: 1.02

Solubility(ies):

[Water] Miscible

[Other solvents]

Miscible: Ether, Alcohols, Acetone, Dimethylformamide(DMF), Glycerol

Log Pow: -1.14

Autoignition temperature: 221°C

10. STABILITY AND REACTIVITY

Chemical stability: May form explosive peroxides.

Possibility of hazardous reactions: No special reactivity has been reported.

Conditions to avoid: Air

Incompatible materials: Oxidizing agents, Acids, Hypochlorites

Hazardous decomposition products: Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ihl-rat LC: >2 g/m³/1H
ipr-mus LD50:2611 mg/kg
orl-rat LD50:4 mL/kg
skn-rbt LD50:2500 uL/kg

Skin corrosion/irritation: No data available

Serious eye

damage/irritation: eye-rbt 500 mg/24H MLD
eye-rbt 500 mg MOD

Germ cell mutagenicity: No data available

Carcinogenicity:

IARC = No data available

NTP = No data available

Reproductive toxicity: orl-mus TDLo:32 g/kg (7-14D preg)
skn-rbt TDLo:3250 mg/kg (6-18D preg)
orl-rat TDLo:6600 mg/kg (7-17D preg)

RTECS Number: KL6125000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	0
Mobility in soil	
Log Pow:	-1.14
Soil adsorption (Koc):	1
Henry's Law (PaM³/mol):	1.7 x 10 ⁻⁶

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	Does not correspond to the classification standard of the United Nations
UN-No:	Not listed

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

16. OTHER INFORMATION

The reference company name of written contents

Company:	TCI (Shanghai) DEVELOPMENT CO., LTD.
Address:	No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China
Department:	Technical Information Department
Emergency telephone:	0532-83889090
Fax:	+86-(0)21-67121385

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority. The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.