



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 2

Revision date: 10/24/2019

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Glycidyl Methacrylate (stabilized with MEHQ)
Product code: M0590
Company: TCI (Shanghai) DEVELOPMENT CO., LTD.
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Revision number: 2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 4

HEALTH HAZARDS

Acute toxicity (Oral) Category 4
Acute toxicity (Dermal) Category 3
Acute toxicity (Inhalation) Category 4
Skin corrosion/irritation Category 1B
Serious eye damage/eye irritation Category 1
Skin sensitization Category 1
Germ cell mutagenicity Category 2
Carcinogenicity Category 1B
Reproductive toxicity Category 1B
Specific target organ toxicity
- Single exposure [Category 1] Respiratory system

Specific target organ toxicity
- Repeated exposure [Category 1] Liver Respiratory system Nervous system Cardiovascular system Kidney

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger

Combustible liquid
Toxic in contact with skin
Harmful if swallowed or if inhaled
Causes severe skin burns and eye damage
May cause an allergic skin reaction
Suspected of causing genetic defects
May cause cancer
May damage fertility or the unborn child
Causes damage to organs : Respiratory system
Causes damage to organs through prolonged or repeated exposure : Liver Respiratory system Nervous system

Cardiovascular system Kidney
Toxic to aquatic life**Precautionary statements****[Prevention]**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from flames and hot surfaces. – No smoking.
Do not breathe mist, vapors or spray.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wash hands and face thoroughly after handling.

[Response]

Wear protective gloves, protective clothing, face protection.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
If exposed or concerned: Call a POISON CENTER or doctor.

[Storage]

In case of fire: Use dry chemical, dry sand or foam to extinguish.

[Disposal]

Store in a well-ventilated place. Keep cool.

Store locked up.

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

Other hazards which do not result in classification

May cause polymerization.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Glycidyl Methacrylate (stabilized with MEHQ)
Percent:	>95.0%(GC)
CAS RN:	106-91-2
Synonyms:	Methacrylic Acid Glycidyl Ester (stabilized with MEHQ)
Chemical Formula:	C ₇ H ₁₀ O ₃

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
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 spray, carbon dioxide.
- Unsuitable extinguishing media:** Solid streams of water
- Specific hazards arising from the chemical:** This substance may polymerize explosively when heated or involved in a fire. Container may explode when heated. Combat fire from a sheltered position.
- 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: Keep containers cool by spraying with water. Eliminate all ignition sources 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 dry sand or inert absorbent before recovering it into a covered container. 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.
- Prevention of secondary hazards:** Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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!

Conditions for safe storage, including any incompatibilities

- Storage conditions:** Keep container tightly closed. Store in a refrigerator. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive
- 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.
- Exposure limits:**
- 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 - Very pale yellow
Odour:	Fruity
pH:	No data available
Melting point/freezing point:	-42°C (Freezing point)
Boiling point/range:	189°C
Flash point:	84°C
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
Vapour pressure:	0.42kPa/25°C
Vapour density:	4.9
Relative density:	1.08
Solubility(ies):	
[Water]	Soluble (5g/100mL, 25°C)
[Other solvents]	
Miscible:	Many organic solvents
Log Pow:	0.81
Dynamic Viscosity:	5.48mPa·s (21°C)

10. STABILITY AND REACTIVITY

Chemical stability:	Polymerization may occur under the influences of heat, light or on contact with polymerization initiators such as peroxides etc.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Heat, Open flame, Light
Incompatible materials:	Oxidizing agents, Strong acids, Strong bases, Peroxides
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	orl-rat LD50:500 mg/kg skn-rbt LD50:450 uL/kg
Skin corrosion/irritation:	skn-rbt 500 uL/24H SEV skn-wmn 100%/6H SEV
Serious eye damage/irritation:	eye-rbt 100 uL MOD
Germ cell mutagenicity:	mno-sat 33 ug/plate (+S9) msc-ham-Ing 200 umol/L cyt-ham-Ing 10mmol/L/6H(+/-S9)
Carcinogenicity:	
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo:110 mg/kg (5-15D preg) ihl-rbt TCLo:50 ppm/6H (7-19D preg)
RTECS Number:	OZ4375000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:2.8 mg/L (Oryzias latipes)
Crustacea:	48h EC50:25 mg/L (Daphnia magna)
Algae:	72h EC50:32 mg/L (Selenastrum capricornutum) 72h NOEC:2.4 mg/L (Selenastrum capricornutum)
Persistence / degradability:	94 % (by BOD) , 96 % (by TOC) , 100 % (by GC)
Bioaccumulative potential(BCF):	3
Mobility in soil	
Log Pow:	0.81
Soil adsorption (Koc):	10
Henry's Law (PaM³/mol):	3.1 x 10 ⁻²

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:	8: Corrosive.
Subsidiary risk:	6.1: Toxic substance.
UN-No:	2922
Proper shipping name:	Corrosive liquid, toxic, n.o.s.
Packing group:	II

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.
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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.