



TCI (Shanghai) DEVELOPMENT CO., LTD.

Revision number: 1

Revision date: 09/06/2019

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## SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product name:** Triglycidyl Isocyanurate  
**Product code:** I0428  
**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  
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**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 3  
Acute toxicity (Inhalation) Category 3  
Skin corrosion/irritation Category 2  
Serious eye damage/eye irritation Category 1  
Respiratory sensitization Category 1  
Skin sensitization Category 1  
Germ cell mutagenicity Category 1B

**ENVIRONMENTAL HAZARDS**

Acute aquatic hazard Category 3  
Long-term aquatic hazard Category 3

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Toxic if swallowed or if inhaled  
Causes skin irritation  
Causes serious eye damage  
May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
May cause genetic defects  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects

Precautionary statements  
[Prevention]

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Avoid breathing dust, fume, 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.

Wear respiratory protection.

Wear protective gloves, protective clothing, face protection.

**[Response]**

IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Take off contaminated clothing. And wash it before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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: Get medical advice or attention.

**[Storage]**

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**

Dust explosion possible if in powder or granular form, mixed with air.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                           |  |
|---------------------------|--|
| <b>Substance/mixture:</b> | Substance  |
| <b>Components:</b>        | Triglycidyl Isocyanurate   |
| <b>Percent:</b>           | >98.0%(GC)(T)  |
| <b>CAS RN:</b>            | 2451-62-9  |
| <b>Synonyms:</b>          | Isocyanuric Acid Triglycidyl Ester , Isocyanuric Acid Tris(2,3-epoxypropyl) Ester , Tris(2,3-epoxypropyl) Isocyanurate |
| <b>Chemical Formula:</b>  | C <sub>12</sub> H <sub>15</sub> N <sub>3</sub> O <sub>6</sub>  |

### 4. FIRST AID MEASURES

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

### 5. FIRE-FIGHTING MEASURES

|   |   |
|---|---|
| <b>Suitable extinguishing media:</b>                  | Dry chemical, foam, water spray, carbon dioxide.  |
| <b>Specific hazards arising from the chemical:</b>    | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.   |
| <b>Precautions for firefighters:</b>                  | 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. |
| <b>Special protective equipment for firefighters:</b> | When extinguishing fire, be sure to wear personal protective equipment  |

### 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | Use extra personal protective equipment (self-contained breathing apparatus). Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc. |
| <b>Environmental precautions:</b>   | Prevent product from entering drains.  |
| <b>Methods and materials for containment and cleaning up:</b>               | Sweep dust to collect it into an airtight container, taking care not to disperse it. 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 dispersion of dust. Wash hands and face thoroughly after handling.  
Use a closed system if possible. Use a local exhaust if dust 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 cool, dark and well-ventilated place. Store locked up.

**Packaging material:** Store away from incompatible materials such as oxidizing agents. 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:** Dust 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):** Solid  
**Form:** Crystal - Powder  
**Colour:** White - Almost white  
**Odour:** Odorless  
**pH:** No data available  
**Melting point/freezing point:** 108°C  
**Boiling point/range:** No data available  
**Flash point:** No data available  
**Flammability or explosive limits:**  
**Lower:** No data available  
**Upper:** No data available  
**Relative density:** No data available  
**Solubility(ies):**  
**[Water]** Very slightly soluble (0.9g/100mL, 25°C)  
**[Other solvents]**  
**Soluble:** Dimethylformamide(DMF), Acetonitrile  
**Log Pow:** -1.07  
**Autoignition temperature:** 200°C

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable under proper conditions.  
**Possibility of hazardous reactions:** Dust explosion possible if in powder or granular form, mixed with air.  
**Conditions to avoid:** Static discharge  
**Incompatible materials:** Oxidizing agents  
**Hazardous decomposition products:** Carbon dioxide, Carbon monoxide, Nitrogen oxides (NOx)

## 11. TOXICOLOGICAL INFORMATION

|                                       |                               |
|---------------------------------------|-------------------------------|
| <b>Acute Toxicity:</b>                | orl-rat LD50:188 mg/kg        |
| <b>Skin corrosion/irritation:</b>     | No data available             |
| <b>Serious eye damage/irritation:</b> | No data available             |
| <b>Germ cell mutagenicity:</b>        | mmo-sat 333 ug/plate (+S9)    |
| <b>Carcinogenicity:</b>               |                               |
| <b>IARC =</b>                         | No data available             |
| <b>NTP =</b>                          | No data available             |
| <b>Reproductive toxicity:</b>         | orl-mus TDL0:2 g/kg (5D male) |
| <b>RTECS Number:</b>                  | XZ1994900                     |

## 12. ECOLOGICAL INFORMATION

|   |   |
|---|---|
| <b>Ecotoxicity:</b>                       |   |
| <b>Fish:</b>                              | No data available                             |
| <b>Crustacea:</b>                         | No data available                             |
| <b>Algae:</b>                             | No data available                             |
| <b>Persistence / degradability:</b>       | 0 % (by BOD) , 3 % (by TOC) , 100 % (by HPLC) |
| <b>Bioaccumulative potential(BCF):</b>    | No data available                             |
| <b>Mobility in soil</b>                   |   |
| <b>Log Pow:</b>                           | -1.07   |
| <b>Soil adsorption (Koc):</b>             | No data available                             |
| <b>Henry's Law (PaM<sup>3</sup>/mol):</b> | 9.5 x 10 <sup>-16</sup>                       |

## 13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and 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

|                              |                              |
|------------------------------|------------------------------|
| <b>Hazards Class:</b>        | 6.1: Toxic substance.        |
| <b>UN-No:</b>                | 2811                         |
| <b>Proper shipping name:</b> | Toxic solid, organic, n.o.s. |
| <b>Packing group:</b>        | III                          |

## 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

|                             |  |
|-----------------------------|--|
| <b>Company:</b>             | TCI (Shanghai) DEVELOPMENT CO., LTD.                                       |
| <b>Address:</b>             | No.96 Pu Gong Road, Shanghai Chemical Industry Park, Shanghai 201507 China |
| <b>Department:</b>          | Technical Information Department   |
| <b>Emergency telephone:</b> | 0532-83889090  |
| <b>Fax:</b>                 | +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.