



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

**Product name:** Diamyl Sulfate  
**Product code:** D2955  
**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@tcishanghai.com.cn  
**Revision number:** 1

## 2. HAZARDS IDENTIFICATION

### Classification of the GHS

#### PHYSICAL HAZARDS

Not classified

#### HEALTH HAZARDS

Acute toxicity (Oral)

Category 4

Acute toxicity (Dermal)

Category 4

Acute toxicity (Inhalation)

Category 4

Skin corrosion/irritation

Category 1C

Serious eye damage/eye irritation

Category 1

#### ENVIRONMENTAL HAZARDS

Not classified

### GHS label elements

#### Pictograms or hazard symbols



#### Signal word

Danger

#### Hazard statement

Harmful by inhalation, in contact with skin and if swallowed  
 Causes severe skin burns and eye damage

#### Precautionary statements

##### [Prevention]

Do not breathe.  
 Use only outdoors or in a well-ventilated area.  
 Do not eat, drink or smoke when using this product.  
 Wash hands thoroughly after handling.

##### [Response]

Wear protective gloves and eye/face protection.  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 Wash contaminated clothing before reuse.  
 Immediately call a POISON CENTER or doctor/physician.  
 Store locked up.  
 Dispose of contents/container through a waste management company authorized by the local government

##### [Storage]

##### [Disposal]

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

|                    |                                                  |
|--------------------|--------------------------------------------------|
| Substance/mixture: | Substance                                        |
| Component(s):      | Diamyl Sulfate                                   |
| Percent:           | ....                                             |
| CAS Number:        | 5867-98-1                                        |
| Synonyms:          | Dipentyl Sulfate                                 |
| Chemical Formula:  | C <sub>10</sub> H <sub>22</sub> O <sub>4</sub> S |

### 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.                                                                                                                                                                                                                                  |
| Extinguishing media not to be used:            | Solid streams of water                                                                                                                                                                                                                                                            |
| Specific hazards:                              | Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume.                                                                                                                                                                                 |
| Specific methods:                              | 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 extra personal protective equipment (self-contained breathing apparatus). 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

#### Handling

|                          |                                                                                                                                                                                                                                                                                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures:      | Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapor or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapor or aerosol will be generated. |
| Advice on safe handling: | Avoid contact with skin, eyes and clothing.                                                                                                                                                                                                                                        |

#### Storage

|                     |                                                                                                                                                                           |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage conditions: | Keep container tightly closed. Store in a refrigerator.<br>Store under inert gas.<br>Store locked up.<br>Store away from incompatible materials such as oxidizing agents. |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## 7. HANDLING AND STORAGE

Packaging material: Law is followed.

## 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  
Color: Slightly pale yellow - Yellow  
Odor: No data available  
pH: No data available  
Melting point/freezing point: 14 °C  
Boiling Point/Range: 117 °C/0.5kPa  
Flash Point: No data available  
Explosive limits  
Lower: No data available  
Upper: No data available  
Density: 1.03  
Solubility: No data available

## 10. STABILITY AND REACTIVITY

Stability: Stable under proper conditions.  
Reactivity: No special reactivity has been reported.  
Conditions to avoid: Heat-sensitive, Air-sensitive  
Incompatible materials: oxidizing agents, strong bases  
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Sulphur oxides

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No data available  
Skin corrosion/irritation: No data available  
Serious eye damage/irritation: No data available  
Germ cell mutagenicity: No data available  
Carcinogenicity:  
IARC = No data available  
NTP = No data available  
Reproductive toxicity: No data available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity:  
Fish: No data available  
Crustacea: No data available  
Algae: No data available  
Persistence / degradability: No data available  
Bioaccumulative potential(BCF): No data available  
Mobility in soil  
log Pow: No data available

## 12. ECOLOGICAL INFORMATION

**Soil adsorption (Koc):** No data available  
**Henry's Law constant(PaM<sup>3</sup>/mol):** No data available

## 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.  
**UN-No:** 1760  
**Proper shipping name:** Corrosive liquid, n.o.s.  
**Packing group:** III

## 15. REGULATORY INFORMATION

**Safe management ordinance of dangerous chemical product (State Council announces on January 26, 2002):** 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:** R&D (Information Management) Department  
**Telephone:** +86-(0)21-67121388\*461  
**Fax:** +86-(0)21-67121385

This MSDS 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. 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.