

## MATERIAL SAFETY DATA SHEET

### 1. Chemicals and Corporate Identification

**Product Name:** Tetrahydrophosphate polyoxyethylene ether (T-02)

**Company:** Wuxi Hazzchem International Trade Co., Ltd.

**Address:** Luda Road, Loshe Town, Huishan District, Wuxi, China

**Zip Code:** 214185

**Emergency Phone:** (+86)18005180339

### 2. Hazards Identification

**Classification of the substance or mixture:**

Acute oral toxicity category 4

Skin corrosion/irritation category 2

Severe eye injury/eye irritation category 1

**Global Harmonized System (GHS) labeling elements, including precautionary statements:**



Signal Word: Hazard; Hazard Description:

Risk Statement: Causes skin irritation. Causes severe ocular injury. Prolonged or repeated exposure may cause organ damage. Highly toxic to aquatic organisms.

Precaution Instructions:

Prevention:

Thoroughly wash hands after completing tasks. Wear protective gloves/protective goggles/masks. Avoid inhaling dust/fume/gas/mist/vapor/spray. Prevent release into the environment.

Response:

In case of skin contact: Rinse thoroughly with water. Specific treatment (see below). If skin irritation occurs: Seek medical attention. Remove the contaminated clothing and wash it before reuse. If the substance enters the eyes: Rinse carefully with water for several minutes. If contact lenses are worn and can be easily removed, remove them and continue rinsing. Immediately contact an antidote center or a physician. If discomfort occurs, seek medical attention. Collect any spilled substance.

Storage: /

Disposal:

Dispose of the contents and containers in accordance with relevant regulations.

### 3. Composition/Information on Ingredients

**Composition :** Tetrahydrophosphate polyoxyethylene ether

**CAS# :** 61791-26-2

**Active ingredients content:**  $\geq 99\%$

### 4. First aid measures

**First aid measures for different exposure routes:**

**Inhalation:** Immediately remove the individual from the scene to an area with fresh air. Keep the airway patent. If dyspnea occurs, administer oxygen. If respiration stops, initiate artificial respiration immediately. Seek medical attention.

**Skin contact:** Remove contaminated clothing and rinse thoroughly with plenty of running water.

**Eye contact:** Immediately lift the eyelid and rinse thoroughly with plenty of running water or normal saline for at least 15 minutes. Seek medical attention.

**Management:** Rinse mouth and seek medical attention.

**Most critical acute and delayed symptom effects:** /

**Indicate immediate medical attention and required specialized treatments when necessary:** /

## 5. Fire safety measures

**Appropriate fire extinguishing agents:** Dry powder, fire-resistant foam, or water mist can be used for firefighting.

**Specific hazards of chemical products:** combustion and decomposition under high temperature and high heat release toxic flue gases.

**Special protective measures for firefighters:** Firefighters must wear air respirators, firefighting suits, and protective gloves when operating upwind of the fire. During firefighting operations, containers should be moved from the fire scene to an open area whenever possible. Subsequently, appropriate fire extinguishing agents should be selected based on the cause of the fire.

## 6. Leakage emergency response

**Personal protection, protective equipment, and emergency procedures:** It is recommended that emergency responders wear positive-pressure respirators and protective workwear. Avoid direct contact with leaked substances.

**Environmental prevention measures:** Isolate the contaminated leakage area and restrict access.

**Methods and materials for containment and cleanup:** **Minor spill:** Avoid dust generation; collect the spill using a clean shovel into a dry, clean, and covered container, then transfer it to a safe location. Do not allow the product to enter restricted areas such as sewers. **Major spill:** Cover the spill with plastic sheeting or cloth. Use spark-free tools to collect and recover the material, or transport it to a waste disposal facility for treatment.

## 7. Handling and storage

**Preventive measures for safe handling:** Conduct operations in enclosed environments with local exhaust ventilation. Operators must receive specialized training and strictly adhere to operating procedures. It is recommended that operators wear protective masks, chemical safety goggles, anti-toxic substance permeation workwear, and acid/alkali-resistant gloves. Handle materials gently during loading and unloading to prevent packaging damage. Equip with emergency leakage response equipment. Empty containers may still contain residual hazardous substances.

**Conditions for secure storage, including any incompatibilities:** Store in a cool, dry, and well-ventilated warehouse. Keep away from sources of ignition and heat. Protect from direct sunlight. The packaging must be sealed to prevent moisture exposure. Store separately from oxidizers and flammable (or combustible) materials; avoid co-storage. The storage area should be equipped with appropriate materials for containing spills.

## 8. Exposure controls/Personal protection

**Control parameters:** /

**Appropriate engineering controls:** Strict enclosure with adequate local exhaust ventilation.

**Personal protective measures/Protective goggles/masks:** Protection is provided through respiratory system protection.

**Skin protection:** Wear a continuous adhesive tape toxic protective suit.

**Respiratory protection:** An air respirator should be worn during emergency rescue or evacuation.

**High Temperature Hazard:** /

## 9. Physical and chemical properties

**Appearance:** light yellow paste

**Content (%) :** >97

**TAV / TerAV (mgKOH/g) :** 157±5

## 10. Stability and reactivity

**Reactivity:** /

**Chemical stability:** Stable at room temperature.

**Risk of hazardous reaction:** None.

**Conditions to avoid:** High temperature, sparks, static electricity.

**Incompatible materials:** flammable or combustible substances, oxidizers.

**Hazardous decomposition products:** carbon oxides, nitrogen oxides.

## 11. Toxicological information

**routes of exposure:** inhalation, ingestion, transdermal absorption, ocular contact.

**Symptoms related to physical, chemical, and toxicological characteristics:** /

**Acute toxic effects:** Inhalation may cause cough, sore throat, and irritation. Skin contact may lead to erythema and irritation. Ocular contact may result in redness, pain, and burns. Ingestion may cause nausea, sore throat, abdominal pain, vomiting, and other symptoms.

**Chronic toxicity or long-term toxic effects:** Prolonged ingestion exposure poses a significant risk of severe health damage.

**Numerical measures of toxicity (e.g., acute toxicity estimates):** /

## 12. Ecology Information

**Toxicity:** Highly toxic to aquatic organisms.

**Durability and degradability:** /

**Potential for bioaccumulation:** /

**Mobility in soil:** /

**Other harmful effects:** /

## 13. Waste Disposal

**Disposal method:** Dispose using the safe burial method. Damaged containers must not be reused and should be buried at designated sites.

## 14. Transport information

**United Nations Code:** /

Official United Nations transport designation: Solid substances harmful to the environment, unless otherwise specified.

**Hazard classification for transportation:** /

**Packaging category (if applicable):** /

**Environmental hazard:** A serious marine pollutant.

**User-specific security measures:** /

## 15. Legal Information

**Domestic Chemical Safety Management Regulations:** This Chemical Safety Data Sheet complies with the following relevant national standards: GB 16483-2008, GB 13690-2009, GB 6944-2012, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 190-2009, GB 191-2009, GB 12268-2008, GA57-1993, GBZ2-2007, as well as relevant regulations: "Regulations on the Management of Railway Transport of Dangerous Goods" and "Regulations on the Safety Management of Hazardous Chemicals".

## 16. Other Sections

**Version Date:** 2023.3.1

Version No.: 1.0/EN

**Guidance departments:** Production run Department

**Data audit department:** Technology Center

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