

# MATERIAL SAFETY DATA SHEET

## 1. Chemicals and Corporate Identification

**Product Name:** Tristyrylphenol Polyoxyethylene Polyoxypropylene Ether (1601)

**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

### 2.1 Classification of Substances or Mixtures

According to the Global Harmonized System of Classification of Chemicals (GHS Classification)

Harmful to swallowing (Chapter 3.2), H302

Causes skin irritation (Chapter 3.2), H315

Causes severe ocular irritation (Chapter 3.3), H319

Exhibits extremely high toxicity to aquatic organisms (Chapter 4.1), H400

### 2.2 GHS labeling elements:

tab :



Warning: Warning

Risk Statement:

H302 is harmful when ingested.

H315 causes skin irritation.

H319 causes severe eye irritation.

H400 is highly harmful to aquatic organisms.

Protection Statement:

After P264 treatment, thoroughly cleanse the skin.

P270 Do not eat, drink, or smoke while using this product.

P273 Avoid release into the environment.

P280 Wear goggles/ facial protection device.

P280 Put on protective gloves.

Protection Statement:

P301 + P312 + P330: In case of accidental ingestion, rinse the mouth immediately. If discomfort occurs, seek medical advice promptly.

After contact with P302+P352 on skin: Rinse thoroughly with plenty of soap and water.

P305+P351+P338: If entering the eyes: Rinse thoroughly with water for several minutes, remove the contact lens, and continue rinsing if possible.

P332+P313: In case of skin irritation: Seek medical attention.

P337+P313: If eye irritation persists, seek medical attention.

P362 Remove contaminated clothing, wash it, and then use.

P391 Collect the spillage.

P501 Send the collected materials/containers to an approved waste treatment facility.

**2.3 Unclassified hazards not covered by GHS – None****3. Composition/Information on Ingredients**

**Composition :** Tristyrylphenol Polyoxyethylene Polyoxypropylene Ether

**CAS# :** 99734-09-5

**Active ingredients content:**  $\geq 99.5\%$  ;

**4. First aid measures**

**Eye contact:** In case of contact, flush eyes with plenty of water or saline water. Get medical attention

**Skin contact:** In case of skin contact, Immediately remove contaminated clothing and shoes. wash affected areas with soap and water for 15 min.

**Ingestion:** If ingested, drink plenty of warm water, vomit. Get medical attention.

**Inhalation:** If inhaled, remove to fresh air. Get medical attention.

**5. Fire safety measures**

**Suitable extinguishing media:** H<sub>2</sub>O, Water fog, Foam, Dry powder, Carbon dioxide (CO<sub>2</sub>), sand

**Combustion products hazard:** Harmful Combustion products contains CO, CO<sub>2</sub>, NO<sub>x</sub>

**Special Fire Fighting Procedures:** Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

**6. Leakage emergency response****Personal precaution:**

Isolate spill area, Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area.

**Environmental protect:**

Avoid run-off into ground, storm sewers, water

**Spill and leak out operation:**

In case of spills or release: Use appropriate personal protective equipment measures during clean-up. For small spills, use asolid absorbent and place in disposal container. For large spills, dike the area to facilitate salvage or disposal. Avoid run-off into storm sewers.

**7. Handling and storage**

**Procedure:** Adhere to standard chemical safety precautions.

**Storage:** Store in sealed and dry packaging containers, avoiding contact with strong acids and isocyanates. Strictly avoid direct exposure to sunlight or rain.

**Storage container materials:** galvanized iron drums, plastic drums, etc.

**Storage temperature:** atmospheric temperature

**Storage period:** within 12 Months

**8. Exposere controls/Personal protection**

**High concentration limit:** not stated

Engineering Controls: Sealing operation is needed, Local exhaust ventilation is necessary

**Personal Protective Equipment****Eye protection**

Chemical safety goggles or safety glasses with side-shields.

**Hand protection**

Permeation resistant gloves.

**Skin and body protection**

None required under normal conditions of use.

### Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product.

## 9. Physical and chemical properties

**Appearance:** thick, yellowish-brown liquid

**pH Value:** 5-7

**Water content:** ≤0.5%

**Cloud Point (0.5% aq.):** 74-78

## 10. Stability and reactivity

**Stability:** Stable

**Conditions to avoid:** Avoid Direct light, heat, flames, sparks and other sources of ignition. Fire-fighting facilities is necessary

**Materials to avoid:** Oxidizing agents, Isocyanates, acid

### Hazardous decomposition products

No hazardous decomposition under normal operation.

## 11. Toxicological information

### Acute toxic effects:

**Inhalation:** Inhalation of degradation products may pose health risks.

**Swallowing:** May cause harm.

**Skin contact:** May cause skin allergic reactions.

**Eye contact:** No serious hazard.

**Chronic or long-term toxic effects:** Skin contact: If an allergic reaction occurs, a more severe allergic reaction may occur upon subsequent exposure.

**Carcinogenicity:** No significant effect.

**Numerical toxicity measurement:**

LD50 orally-rat->2000 mg/kg;

LD50 dermally-rat->2000 mg/kg

## 12. Ecology Information

Difficult to biodegrade. Low bioaccumulation potential. Harmful to aquatic organisms with prolonged and persistent effects.

### Ecotoxicity:

EC50 - germ - >100 mg/kg – 3-hour static test

EC50 -Water flea- >100 mg/kg – 48-hour static test

EbC50 -Algae- 46 mg/kg-72-hour static test

LC50 -Fish- > 100 mg/kg for 96 hours

NOEC -Algae- 12 mg/kg-72-hour static test

NOEC -Water Flea- 0.32mg/kg - 21 days

## 13. Disposal considerations

### Waste disposal method:

Waste gas treatment shall comply with the relevant local, provincial, or national regulations.

### matters need attention:

When using or handling empty containers, comply with the relevant government regulations.

## 14. Transport information

**UN No.:** Not specified

**Packaging marking:** Not required

**Packaging method:** Packaged in galvanized iron drums or plastic drums.

**Transportation Precautions:** Before transportation, ensure the packaging container is intact and sealed. During transit, prevent leakage, collapse, falling, or damage to the container. Strictly avoid mixing with oxidizers, acids, or food-grade chemicals. Transport vehicles and vessels must be thoroughly cleaned and disinfected; otherwise, they shall not carry other goods. For maritime transport, the loading area should be located away from bedrooms and kitchens, and isolated from engine rooms, power sources, and other ignition sources.

## 15. Regulatory information

**Legal Information:** The following laws, regulations, and standards govern the safe use, storage, transportation, handling, classification, and management of chemicals.

Corresponding regulations have been established regarding aspects such as signage:

The series of standards for chemical classification, warning labels, and precautionary labeling specifications (GB 20576-2006 to GB 20602-2006).

List of Hazardous Chemicals: Not included.

List of Highly Toxic Chemicals: Not included.

List of Dangerous Goods (GB 12268-2012): Not included.

"China's List of Existing Chemical Substances": Included.

List of Highly Toxic Substances: Not included.

List of Hazardous Chemicals Subject to Explosion Control (2011 Edition): Not included.

List of Chemicals Suspected of Being Used in Drug Manufacturing: Not included.

"List of the First Batch of Key Hazardous Chemicals Subject to Strict Supervision": Not included.

Regulations on the Safety Management of Hazardous Chemicals (State Council Order No.591).

### **Additional information: EU Regulation**

Determine the hazard classification and labeling of substances in accordance with EU Regulation 67/548/EEC and Regulation 1999/45/EC (including their amendments), taking into account the usage of existing products.

### **Dangerous label:**



Irritant

**Risk Description:** R43-Skin contact may cause allergic reactions.

**Safety Description:** S24-Avoid skin contact.

S37 – Wear protective gloves.

## 16. Other Sections

**Version Date:** 2023.3.1

Version No.: 1.0/EN

**Guidance departments:** Production run Department

**Data audit department:** Technology Center