

MATERIAL SAFETY DATA SHEET

1. Chemicals and Corporate Identification

Product Name: Tristyrylphenol polyoxyethylene ether (TSP-37)

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 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: H₂O, Water fog, Foam, Dry powder, Carbon dioxide (CO₂), sand

Combustion products hazard: Harmful Combustion products contains CO, CO₂, NO_x

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 a solid 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

Handling: To comply with the conventional chemicals precautions

storage: Material is hygroscopic, keep container closed and dry when not in use. Avoid isocyanates and acid, Avoid insolation and rain

Container material: zinc coating iron drum, plastic tank

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: Pale yellow semi-solid

pH Value: 5-7

Water content: ≤0.5%

Cloud Point (0.5% aq.): 90-95

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 toxicity: No Data

Skin irritation: No Data

Eye irritation: No Data

Inhalation hazard: Normally unharmed, Low steam pressure under atmospheric temperature

Carcinogenicity: No Data

KOREA .KOSHA : unstated

US. OSHA : Unstated

US. NTP : Unstated

US. IARC : Unstated

US.ACGIH : Unstated

Mutagenicity: No relevant information found

Long term contact effect: No harmful effect detected after long time contact

12. Ecology Information

Avoid run-off into ground, storm sewers, water

13. Disposal considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental control laws.

Note: Recondition or dispose of empty container in accordance with governmental regulations.

14. Transport information

UN No.: Not specified

Packaging marking: Not required

Packaging methods: Packaging with zinc coating iron drum, plastic tank

Note: Containers should be complete, sealed while transport, ensure the containers do not leak, fall, or be damaged. Oxidant, acid, food mixed transport is prohibited. Transport carriers must be thoroughly cleaned, disinfected after transport. Goods location should be away from the bedroom, kitchen, and isolated from the cabin, power supply, the source of fire and other parts on the ship.

15. Regulatory information

The safe use, storage, transportation, loading and unloading, classification and mark of the chemicals was be provisions in the following laws and regulations and standard:

Safety rules for classification,precautionary labeling and precautionary statements of chemicals - (GB/T20576-2006 ~ GB/T20602-2006);

General rule for classification and hazard communication of chemicals- (GB/T13690-2009);

Classification and labels of dangerous chemical substances commonly used-(GB/T13690-2009)

Classification and code of dangerous goods -- (GB/T-6944-2005)

Safety data sheet for chemical products content and order of sections -(GB/T 16483-2008)

This product is a polymer according to the definition in Directive 92/32/EEC (7th Amendment to Directive 76/548/EEC) and all of its

starting materials and intentional additive are in the European Inventory of Existing Commercial Chemical Substances (EINECS) or in compliance with European (EU) chemical inventory requirements. In the meantime, all components in this product are not classified

as Hazardous Chemicals according to the following chemical substances list.

TSCA (Toxic Substances Control Act Inventory of Chemical Substances)

EINECS/ELINCS (European Inventory of Existing Commercial Chemical Substances)

AICS (Australian Inventory of Chemical Substances)

IECSC (Chinese Existing Chemical Substances)

US.Toxic Substances Control Act

KECL (Korean Toxic Chemical Control Law)

16. Other Sections

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Guidance departments: Production run Department

Data audit department: Technology Center

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