

Safety Data Sheet: Trixylyl Phosphate

1. Identification

Product	Trixylyl Phosphate; CAS 25155-23-1; EC 246-677-8
Use	Industrial fluid and additive formulation development.
Company	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office number above, office hours, China time (UTC+8). For urgent medical assistance contact local emergency services.
Scope	Reference safety information for Trixylyl Phosphate. The reference composition, concentration and supply-grade differences are described in Section 3. This document does not certify the composition or transport status of a specific delivered batch or a different formulation.

2. Hazards Identification

Classification	Reproductive toxicity Category 1B (fertility); specific target organ toxicity, repeated exposure Category 2; acute aquatic hazard Category 1; chronic aquatic hazard Category 1.
Signal word / symbols	Danger; GHS08, GHS09
Hazard statements	H360F: may impair fertility. H373: repeated exposure may damage organs. H400: very toxic to aquatic life. H410: persistent severe aquatic toxicity.
Prevention	Use adequate ventilation; avoid inhaling mist. Prevent skin and eye contact. Wear suitable chemical-resistant gloves and eye protection. Wash after handling; keep food and drink out of the work area.
Response	After exposure, stop work and seek medical advice. For severe exposure obtain urgent medical care. Rinse contaminated skin or eyes with water; move an inhalation casualty to fresh air.
Environment	Prevent uncontrolled release to drains, soil or surface water. Collect spills for appropriate disposal.



3. Composition / Information on Ingredients

Reference ingredient	Trixylyl phosphate CAS 25155-23-1, aromatic phosphate ester reference. The selected fluid reference contains ≥90% TXP and ≤1% tricresyl phosphate; these composition ranges are not assigned to the supplied industrial batch.
Supply grade	Industrial liquid grade
Applicability	The cited concentration or purity describes the reference material. It is not a certificate of analysis for the delivered batch; different solvents or dilutions require the matching supplier safety document.

4. First-Aid Measures

General	Protect the rescuer from exposure and show the product information to medical personnel. Obtain medical advice if symptoms occur or exposure is significant.
Inhalation	Move to fresh air and keep the person comfortable. Seek medical care for breathing difficulty or persistent symptoms. Avoid exposing rescuers to mist.
Skin	Remove contaminated clothing and rinse skin thoroughly with water. Seek medical advice for persistent irritation.
Eyes	Rinse gently with clean water for at least 15 minutes. Remove contact lenses when easy and continue rinsing. Seek medical advice if irritation persists.
Ingestion	Rinse the mouth. Do not induce vomiting. Give nothing by mouth to an unconscious person. Obtain medical advice.
Effects / treatment	Fertility and repeated-exposure hazards; repeated contact may dry skin. High-pressure liquid injection is a medical emergency. Treatment is symptomatic and directed by a clinician.

5. Fire-Fighting Measures

Extinguishing media	Use water spray, foam, dry chemical or carbon dioxide suited to the surrounding fire.
Hazards	Thermal decomposition may generate carbon and phosphorus oxides.
Protection	Firefighters require suitable protective clothing and self-contained breathing equipment. Prevent contaminated firefighting water entering drains.

6. Accidental Release Measures

Personnel	Isolate the spill and provide ventilation. Use chemical-resistant gloves and eye protection; avoid contact and mist exposure.
Environment	Contain the release and protect drains and waterways. Report significant environmental contamination to the responsible authority.
Cleanup	Stop the leak if safe. Absorb liquid with a compatible inert material and collect in closed labelled containers. Do not wash into drains.

7. Handling and Storage

Handling	Use controlled liquid transfer and engineering controls for mist exposure. Wear suitable chemical-resistant gloves, protective clothing and eye protection. Prevent repeated contact and ingestion; avoid exposure during pregnancy and keep food out of work areas. High-pressure fluid injection requires emergency medical attention.
Storage	Store sealed in a cool, dry, ventilated place with secondary containment. Protect from prolonged heating, moisture and strong oxidizers. Keep containers clearly labelled and restrict access to trained personnel.
Incompatibilities	Strong oxidizing materials; excessive heat and uncontrolled contamination.

8. Exposure Controls / Personal Protection

Exposure limits	The selected reference reports no occupational exposure limit. Assess mist generation and current applicable local controls.
Engineering controls	Use local extraction where mist can be generated. Maintain accessible eyewash and emergency washing facilities.
Personal protection	Wear chemical-resistant gloves selected for the task, suitable protective clothing and splash goggles. Add face protection for splash-prone tasks.
Respiratory protection	Use a properly selected respirator under a respiratory-protection program where engineering controls do not adequately limit airborne exposure.
Hygiene	Wash after handling, remove contaminated clothing promptly and do not eat, drink or smoke in the work area.

9. Physical and Chemical Properties

Appearance	Clear, colorless liquid
State	Industrial liquid
Water response	Low water solubility
Representative component identity	C24H27O4P / 410.44 g/mol

10. Stability and Reactivity

Stability	Handle and store under the recommended conditions. Prevent contamination and unnecessary heating.
Incompatibilities	Strong oxidizing materials; excessive heat and uncontrolled contamination.
Decomposition	Thermal decomposition may generate carbon and phosphorus oxides.

11. Toxicological Information

Exposure effects	Fertility and repeated-exposure hazards; repeated contact may dry skin. High-pressure liquid injection is a medical emergency.
Reference classification	Reproductive toxicity Category 1B (fertility); specific target organ toxicity, repeated exposure Category 2; acute aquatic hazard Category 1; chronic aquatic hazard Category 1.
Toxicological data	The matched liquid reference identifies fertility and repeated-exposure hazards. No numerical toxicity or absence-of-effect claim is made for the commercial batch.

12. Ecological Information

Environmental effects	Acute and chronic aquatic hazards are classified. Contain spills, retain contaminated runoff and prevent release to receiving water.
Controls	Prevent uncontrolled release, collect spills and dispose of contaminated material through an authorized route.
Assessment	No product-specific PBT/vPvB assessment is claimed. Absence of data does not establish absence of environmental effects.

13. Disposal Considerations

Product	Collect surplus product and contaminated cleanup material for disposal by an authorized chemical-waste contractor in accordance with local requirements.
Packaging	Containers may retain product residues. Do not reuse contaminated packaging without an approved cleaning process; use an authorized disposal route.

14. Transport Information

Classification	Class 9 — Environmentally hazardous
UN number	UN 3082
Shipping name	Environmentally hazardous substance, liquid, n.o.s. (trixylol phosphate)
Class / packing group	ADR/RID, ADN, IMDG and IATA: Class 9, packing group III. Bulk environmentally hazardous liquid; marine pollutant. Small-container exceptions do not change displayed bulk classification.
Transport precautions	Protect packaging and closures from damage, secure loads and prevent releases. This reference is not a shipping declaration for a specific consignment.

15. Regulatory Information

Identity	Trixylyl Phosphate; CAS 25155-23-1; EC 246-677-8
HS reference	291990; reference heading rather than a destination customs ruling.
Compliance	Apply applicable workplace, environmental and transport rules. A raw-material listing does not establish finished-product authorization.
Assessment	No ZXCHEM-specific chemical safety assessment or destination registration is asserted.

16. Other Information

Hazard meanings	H360F: may impair fertility. H373: repeated exposure may damage organs. H400: very toxic to aquatic life. H410: persistent severe aquatic toxicity.
Limitations	Prepared as reference safety information for the identified material. It is not a batch analytical certificate or safety assessment of a different solvent-containing formulation.
Revision	2026.2; prepared 2026-10-06. Customer-document branding and title corrected; technical safety data retained.
Document scope	Reference safety information for the material and grade described in Sections 1 and 3. Different concentrations, solvents or formulations require the applicable safety information. This is not a batch analytical certificate.

Revision: 2026.2 | Revision date: 2026-10-06