

Safety Data Sheet: Tetraethyl Lead (TEL-B)

1. Identification

Product	Tetraethyl Lead (TEL-B); CAS 78-00-2; EC 201-075-4
Use	Lead-containing antiknock blend for specifically authorized industrial fuel applications.
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 Tetraethyl Lead (TEL-B). 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	Flammable liquid Category4; acute oral/inhalation toxicity Category2; acute dermal toxicity Category1; carcinogenicity Category1B; reproductive toxicity Category1A; STOT repeated exposure Category2; acute/chronic aquatic hazard Category1.
Signal word / symbols	Danger; GHS06, GHS08, GHS09
Hazard statements	H227: combustible liquid. H300/H330: fatal if swallowed or inhaled. H310: fatal in contact with skin. H350: may cause cancer. H360: may damage fertility or the unborn child. H373: may damage organs after repeated exposure. H410: very toxic to aquatic life with long lasting effects.
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	Reference tetraethyllead CAS78-00-2; pure-substance safety scope. TEL-B TDS composition: TEL≥61.48%, 1,2-dibromoethane35.5±1.0%, antioxidant0.10%, blue pigment0.001%. This reference is not the complete TEL-B mixture SDS.
Supply grade	TEL ≥61.48% (TEL-B blend)
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	Immediate medical assessment is required after suspected exposure. Protect rescuers; show the reference SDS and actual supply information to medical personnel.
Inhalation	Move to fresh air without exposing rescuers. Call emergency medical services immediately; breathing assistance must be provided by trained personnel.
Skin	Remove contaminated clothing immediately and wash thoroughly with soap and water. Obtain urgent medical care; do not wait for symptoms.
Eyes	Rinse cautiously with clean water for at least 15 minutes, removing contact lenses when easy. Obtain medical assessment.
Ingestion	Call emergency medical services immediately. Rinse mouth; do not induce vomiting. Give nothing by mouth to an unconscious person.
Treatment	Treatment and exposure monitoring must be directed by a clinician with the actual chemical and formulation information.

5. Fire-Fighting Measures

Media	Use media appropriate to the surrounding fire; cool exposed containers with water spray from a protected position.
Hazards	Heating or combustion may release toxic metal-containing fumes and carbon oxides.
Protection	Firefighters require self-contained breathing equipment and protective clothing. Contain contaminated firefighting water.

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 closed transfer systems and stringent exposure control. Avoid all skin contact and vapour exposure; use appropriate gloves, protective clothing and respiratory controls selected by a qualified safety professional.
Storage	Store locked up in tightly sealed compatible containers, with containment, away from ignition and oxidizers. Restrict access to trained authorized personnel.
Incompatibilities	Strong oxidizing agents and uncontrolled contamination.

8. Exposure Controls / Personal Protection

Exposure limits	No product-specific occupational exposure limit is established here. Control airborne dust and apply current local workplace exposure requirements.
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

Supply appearance	Blue transparent liquid
Supply grade	TEL ≥61.48% (TEL-B blend)
Additional properties	No unstated delivered-formulation values are inferred.

10. Stability and Reactivity

Conditions	Prevent unnecessary heating, exposure to ignition sources and contamination.
Incompatibilities	Strong oxidizing agents; use only approved compatible equipment.
Decomposition	Heating or combustion may release toxic metal-containing fumes and carbon oxides.

11. Toxicological Information

Exposure effects	Avoid direct contact, ingestion and inhalation. Obtain medical assessment for significant exposure or persistent symptoms.
Reference classification	Flammable liquid Category4; acute oral/inhalation toxicity Category2; acute dermal toxicity Category1; carcinogenicity Category1B; reproductive toxicity Category1A; STOT repeated exposure Category2; acute/chronic aquatic hazard Category1.
Toxicological data	The reference does not provide complete numerical acute or chronic toxicity data for the supplied grade. No absence of effects is inferred.

12. Ecological Information

Environmental effects	Prevent discharge to soil, drains and receiving water. Retain cleanup waste; the reference does not establish complete environmental fate data for the supplied grade.
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 6.1 — Toxic (pure TEL reference)
UN number	UN1649
Shipping name	Tetraethyllead
Class / packing group	Pure TEL reference:UN1649,Tetraethyllead,Class6.1,packing groupI. Delivered TEL-B mixture transport is outside pure-substance scope.
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	Tetraethyl Lead (TEL-B); CAS 78-00-2; EC 201-075-4
HS reference	293190; 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	H227: combustible liquid. H300/H330: fatal if swallowed or inhaled. H310: fatal in contact with skin. H350: may cause cancer. H360: may damage fertility or the unborn child. H373: may damage organs after repeated exposure. H410: very toxic to aquatic life with long lasting effects.
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