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MATERIAL SAFETY DATA SHEET (MSDS)



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PRODUCT NAME: TRI ETHYL PHOSPHATE

1. Product Identification:

Synonyms: Ethyl Phosphate; TEP; Triethyl Ester
CAS No.: 78-40-0
Molecular Weight: 182.16
Chemical Formula: (C₂H₅O)₃PO
Product Codes: CY-01

2. Composition:

Ingredient	CAS No	Percent	Hazardous
Triethyl Phosphate	78-40-0	≥99.5%	No

3. Hazards Identification:

Warning! Causes light eye irritation

4. Potential Health Effects:

Inhalation:

Is harmful and may be fatal. Headache, Nausea, Vomiting, Dizziness, Narcosis, Respiratory failure, Low blood pressure, Central nervous system depression.

Ingestion:

Is harmful and may be fatal. Irritation and burns to mouth and stomach.

Skin Contact:

Irritation or burns.

Eye Contact:

Severe irritation or burns.

Chronic Exposure:

Central nervous system depression.

5. First Aid Measures:

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Prompt action is essential.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes.

Eye contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

6. Fire Fighting Measures:

Fire:

Flash point: 116°C(241F)

Explosion:

Closed containers exposed to heat may explode.

Fire Extinguishing Media:

Use water spray, alcohol foam, dry chemical or carbon dioxide.

Special Information:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

7. Accidental Release Measures:

Wear self-contained breathing apparatus and full protective clothing. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush spill area with water.

8. Handling and Storage:

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues(vapors, liquid); observe all warnings and precautions listed for the product.

9. Toxicity

AQTX/TLM96: Not Available

CARCINOGENICITY: Not available

MUTATION DATA: Not available

TERATOGENICITY: Not available

10. Personal Protection:

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

11. Physical and Chemical Properties:

Appearance: Clear, colorless liquid.

Odor: Light odor.

Solubility: Complete(100%)

Specific Gravity: 1.07

PH: No information found.

Boiling Point: 216°C(421F)

Melting Point: -56°C(-69F)

Vapor Density(Air=1): 6.3

12. Stability and Reactivity:

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of phosphorus, carbon monoxide, carbon dioxide.

Conditions to Avoid:

Heat, flame, other sources of ignition.

13. Ecological Information:

Environmental Fate: No information found.

Environmental Toxicity: No information found.

14. Disposal Considerations:

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container and unused contents in accordance with federal, state and local requirements.

This substance is not subject to IMDG code.

15. Transport Information:

This substance is not subject to IMDG code.

16. Other Information:

Label Hazard Warning:

WARNING! CAUSES LIGHT EYE IRRITATION.

Label Precautions:

No SAF-T-DATA Ratings have been developed for this product. Read and follow all warnings, precautions, instructions and other safety and handling information on the label and MSDS.

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