

# SAFETY DATA SHEET

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#### **SECTION 1. IDENTIFICATION**

Product Identifier: (5N) 99.999% Triethylphosphate

Product Code: TEL-PAT-05

CAS Number: 78-40-0

Relevant identified uses of the substance: Scientific research and development

Supplier details:

American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351 Emergency telephone number: +1 800-424-9300

## **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4), H302 Eye irritation (Category 2A), H319 GHS Label elements, including precautionary statements Pictogram



Signal word Warning Hazard statement(s) H302 Harmful if swallowed. H319 Causes serious eye irritation. Precautionary statement(s) P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear eye protection/ face protection. P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 If eye irritation persists: Get medical advice/ attention. P501 Dispose of contents/ container to an approved waste disposal plant. Hazards not otherwise classified (HNOC) or not covered by GHS - none

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substances Synonyms : Ethyl phosphate TEP Formula : C6H15O4P Molecular weight : 182.15 g/mol CAS-No. : 78-40-0 EC-No. : 201-114-5 Index-No. : 015-013-00-7

## **SECTION 4. FIRST AID MEASURES**

Description of first aid measures No data available Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media No data available Special hazards arising from the substance or mixture Carbon oxides, Oxides of phosphorus Advice for firefighters No data available Further information No data available

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures For personal protection see section 8. Environmental precautions No data available Methods and materials for containment and cleaning up No data available Reference to other sections For disposal see section 13.

#### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling For precautions see section 2.2. Conditions for safe storage, including any incompatibilities No data available Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters Components with workplace control parameters Exposure controls Personal protective equipment Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Control of environmental exposure Prevent product from entering drains.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties a) Appearance Form: clear, liquid Colour: colourless b) Odour odourless c) Odour Threshold No data available d) pH No data available e) Melting point/freezing point Melting point/range: -56 °C (-69 °F) -56.4 °C (-69.5 °F) f) Initial boiling point and boiling range 215 °C 419 °F - lit. g) Flash point 130 °C (266 °F) - closed cup h) Evaporation rate No data available i) Flammability (solid, gas) No data available i) Upper/lower flammability or explosive limits Upper explosion limit: 10 %(V) Lower explosion limit: 1.7 %(V) k) Vapour pressure 0.1 hPa at 20 °C (68 °F) 1.33 hPa at 40 °C(104 °F) I) Vapour density 6.29 - (Air = 1.0)m) Relative density 1.072 g/cm3 at 25 °C (77 °F) n) Water solubility completely miscible500 g/l at 25 °C (77 °F) - OECD Test Guideline 105

o) Partition coefficient:
n-octanol/water
No data available
p) Auto-ignition temperature
454 °C (849 °F)
q) Decomposition temperature
No data available
r) Viscosity 1.46 mm2/s s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
Relative vapour density
6.29 - (Air = 1.0)

#### SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability No data available Possibility of hazardous reactions No data available Conditions to avoid No data available Incompatible materials Strong bases, Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Oxides of phosphorus Other decomposition products - No data available In the event of fire: see section 5

#### SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity LD50 Oral - Rat - 1,165 mg/kg Remarks: Brain and Coverings: Recordings from specific areas of CNS. Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia. Dermal: No data available No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation Eves - Rabbit Result: Moderate eye irritation - 24 h (OECD Test Guideline 405) Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available

Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information **RTECS:** Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - Based on Human Evidence

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - > 1,000 mg/l - 96h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia (water flea) - 330 mg/l - 96 h Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects No data available

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods No data available

# **SECTION 14. TRANSPORT INFORMATION**

DOT (US) Not dangerous goods IMDG Not dangerous goods IATA Not dangerous goods

# **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard, Chronic Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Triethyl phosphate CAS-No. 78-40-0 **Revision Date** Triethyl phosphate CAS-No. 78-40-0 **Revision Date** New Jersey Right To Know Components Triethyl phosphate CAS-No. 78-40-0 **Revision Date** 

## **16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.