



Section 1 – Company Information

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Section 2 – Product Identification/ Information on Ingredients

PRODUCT NAME Trioctyl Phosphate
CAS NUMBER 78-42-2
SYNONYM Tri 2-ethylhexyl Phosphate; Phosphoric Acid, tris(2-ethylhexyl) ester

PRODUCT	CAS NUMBER	% BY WEIGHT
Trioctyl Phosphate	78-42-2	100%

Section 3 – Hazards Identification

Emergency Overview: A clear colorless, oily liquid, which is not normally irritating to eyes and skin. Ingestion and prolonged contact should be avoided.

Toxicity: No significant adverse effects expected. Not considered toxic/hazardous.

Carcinogenicity: Not listed by NTP, IARC or OSHA

Section 4 – First Aid Measures

Eye: Flush eyes with water for 15 min. Call a physician if irritation develops.

Skin: Wash skin with soap and water. If in contact with hot product, treat as a burn.

Ingestion: Do not induce vomiting. Never give anything by mouth to unconscious person. Seek medical attention.

Inhalation: Remove to fresh air; give artificial respiration or oxygen if necessary.

Section 5 – Fire Fighting Measures

Flash Point: 207°C (405°F) COC; **Autoignition Point:** 371°C(700F)

Fire-Fighting Procedures: Use Chemical foam, CO₂, Dry Chemical, water fog. Treat as burning oil. Keep drums as cool as possible to avoid expansion, explosions, and splattering.

Hazardous Combustion Products: This product will decompose under extreme temperatures forming oxides of carbon.

Protective Equipment: Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.



Section 6 – Accidental Release Measures

Spill or Leak Precautions: Wear appropriate protective equipment and gloves and clothing. Contain spill with inert absorbent or earth. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Prevent run-off into sewers or natural waterways. Spills in excess of the RQ must be reported to the local emergency response organizations. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802)

Waste Disposal: All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

Section 7 – Handling & Storage

Store in sealed containers in dry, ambient temperature conditions. Perform drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

Section 8 – Exposure Controls & Personal Protection

Ventilation: Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

Respiratory and Personal Protection: Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging. Safety glasses with side shields; gloves, boots and apron as appropriate.

Facilities: There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

Section 9 – Physical & Chemical Properties

Appearance: Clear, colorless liquid

Evaporation Rate: < 1 (butyl acetate=1)

Specific Gravity @25°C: 0.923

Boiling Point: 220°C (428°F)

Vapor Pressure @ 20°C: 2.1 mm Hg

Refractive Index 25°C: 1.4420



Section 10 – Stability & Reactivity Data

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm; c) should be kept away from extreme heat, strong oxidizers and bases; d) this product decomposes under high temperature and hydrolyses in wet low and high pH conditions.

Section 11 – Toxicological Information

Dermal LD50: 20,000 mg/kg - rabbit

Oral LD50: 37,000 mg/kg - rat

Inhalation LC50: Inhalation LC (gpig); 450 mg/m³ for 30 mins.

Acute eye/skin effects: May cause significant irritation. Also may cause gastrointestinal tract irritation.

Mutagenicity: Negative AMES test.

Section 12 – Ecological Information

Environmental Data: May cause adverse impact if material reaches waterways. No other data available.

Section 13 – Disposal Consideration

Dispose of product and contaminated packaging in accordance with all local, state and federal environmental control regulations.

Section 14 – Transportation Data

DOT: Not restricted. Use a standard commercial label.

Canada Transport Haz. Goods: Not restricted.

Air (IATA/ICAO): Not restricted. Use commercial label showing chemical name.

European Transportation: ADR/RID HAZ. CLASS.: Not regulated.

US Customs: - HARMONIZED TARIFF CODE: 2919.00.50.10

Section 15 – Regulatory Information

SARA Title III: - 311/312 CATEGORIES: Not listed.

SARA Title III: - 313 Reportable ingredients: None

CERCLA RQ: Not applicable.

TSCA Regulatory: All intentional ingredients are listed in the TSCA Inventory.

Canada WHMIS Hazard Symbol And Class: Class D, Division 2, Subdivision B: Toxic Material. May cause eye and skin irritation. This product is WHMIS controlled.



Canada Ingredient Disclosure List: Does not contain any ingredients on the IDL. All intentional ingredients are on the DSL.

Section 16 – Other Information

Disclaimer

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.

