

Section 1. Product and Company Identification

**Product Name** Triphenyl Phosphite  
**CAS Number** 101-02-0

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**Physical hazards**

Not classified.

**Health hazards**

Acute toxicity, oral - Category 4  
Skin corrosion/irritation - Category 2  
Serious eye damage/eye irritation - Category 2

**Environmental hazards**

Hazardous to the aquatic environment, acute hazard - Category 1  
Hazardous to the aquatic environment, long-term hazard - Category 1

**OSHA defined hazards**

Not classified.

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements:** Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.  
Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.



### Precautionary Statements

**Prevention:** Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves.

**Response:** If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.

**Storage:** Store away from incompatible materials.

**Disposal:** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not Otherwise Classified (HNOC):** None known.

**Supplemental information:** None.

### Section 3. Composition / Information on Ingredients

**Common Name** Triphenyl Phosphite  
**Formula**  $C_{18}H_{15}O_3P$   
**CAS Number** 101-02-0

COMPONENT	CAS NUMBER	CONCENTRATION
Triphenyl Phosphite	101-02-0	90 - 100%

### Section 4. First Aid Measures

**Inhalation:** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact:** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion:** Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

**Most important symptoms/effects, acute and delayed:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

**Indication of immediate medical attention and special treatment needed:** Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

**General Information:** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.



#### Section 5. Firefighting Measures

**Suitable extinguishing media:** Powder. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

#### Section 6. Accidental Release Measures

**Suitable extinguishing media:** Powder. Foam. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

**Special protective equipment and precautions for firefighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Firefighting equipment/instructions:** Move containers from fire area if you can do so without risk.

**Specific methods:** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards:** No unusual fire or explosion hazards noted.

#### Section 7. Handling and Storage

**Precautions for safe handling:** Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

#### Section 8. Exposure Controls / Personal Protection

**Occupational exposure limits:** No exposure limits noted for ingredient(s).

**Biological limit values:** No biological exposure limits noted for the ingredient(s).



**Appropriate Engineering Controls:** Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection:** Face shield is recommended. Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection:** Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

**Other:** Wear appropriate chemical resistant clothing.

**Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.

**General Hygiene Considerations:** Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9. Physical and Chemical Properties

**Appearance:** Clear.

**Physical state:** Liquid.

**Form:** Liquid.

**Color:** Off-white.

**Odor:** Phenolic.

**Odor threshold:** Not available.

**pH:** Not available.

**Melting point/freezing point:** 77°F (25°C)

**Initial boiling point and boiling range:** 680°F (360°C)

**Flash point (Closed Cup):** 295.0°F (146.1°C)

**Evaporation rate:** < 1

**Flammability (solid, gas):** Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit – lower:** Not available.

**Flammability limit – upper:** Not available.

**Explosive limit – lower:** Not available.

**Explosive limit – upper:** Not available.

**Vapor Pressure:** < 100 hPa at 20°C  
**Vapor Density:** Not available.  
**Relative Density:** 1.184 g/cm<sup>3</sup> @ 25°C  
**Solubility (water):** Insoluble  
**Partition coefficient (n-octanol/water):** Not available.  
**Auto-ignition temperature:** Not available.  
**Decomposition temperature:** Not available.  
**Viscosity:** Not available.

#### Other information

**Density:** 1.18 g/cm<sup>3</sup>  
**Explosive properties:** Not explosive.  
**Flammability class:** Combustible IIIB estimated  
**Flash point class:** Combustible IIIB  
**Molecular formula:** C<sub>18</sub>H<sub>15</sub>O<sub>3</sub>P  
**Oxidizing properties:** Not oxidizing.  
**Specific gravity:** 1.18 @ 25°C

#### Section 10. Stability and Reactivity

**Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical Stability:** Material is stable under normal conditions.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

**Conditions to avoid:** Contact with incompatible materials.

**Incompatible Materials:** Strong oxidizing agents.

**Hazardous Decomposition Products:** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

#### Section 11. Toxicological Information

##### Information on likely routes of exposure

**Inhalation:** No adverse effects due to inhalation are expected.

**Skin contact:** Causes skin irritation.

**Eye contact:** Causes serious eye irritation.

**Ingestion:** Harmful if swallowed.

**Symptoms related to the physical, chemical, and toxicological characteristics:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

##### Information on toxicological effects

**Acute toxicity:** Harmful if swallowed.



**Acute Toxicity**

**LD50 Dermal - Rabbit:** 2 - 5 g/kg

**LD50 Oral - Mouse:** 1330 mg/kg

**LD50 Oral - Rat:** 1600 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/eye irritation:** Causes serious eye irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization:** Not a respiratory sensitizer.

**Skin sensitization:** This product is not expected to cause skin sensitization.

**Germ Cell Mutagenicity:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity:** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity:** Not available.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**US National Toxicology Program (NTP) Report on Carcinogens:** Not available.

**Reproductive toxicity:** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure:** Not classified.

**Specific target organ toxicity - repeated exposure:** Not classified.

**Aspiration hazard:** Not an aspiration hazard.

Section 12. Ecological Information

**Ecotoxicity:** Very toxic to aquatic life with long lasting effects

**Aquatic Toxicity**

**LC50 Fish - Fish:** 0.7 mg/L, 96 hours

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability:** No data is available on the degradability of this product.

**Bioaccumulative potential:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

**General Information** IMDG Regulated Marine Pollutant.

**DOT:** Not regulated as dangerous goods.

**TDG:** Not regulated as dangerous goods.

**IMDG**

**UN number:** UN3082

**UN proper shipping name:** Environmentally Hazardous Substance, Liquid, N.O.S. (Triphenyl Phosphite)

**Transport hazard class(es)**

**Class:** 9

**Subsidiary risk:** -

**Packing group:** III

**Environmental hazards**

**Marine Pollutant:** Yes

**EmS:** F-A, S-F

**IATA**

**UN number:** UN3082

**UN proper shipping name:** Environmentally hazardous substance, liquid, N.O.S. (Triphenyl Phosphite)

**Transport hazard class(es)**

**Class:** 9

**Subsidiary risk:** -

**Packing group:** III

**Environmental hazards:** No.

**ERG Code:** 9L

**Other information**

**Passenger and cargo aircraft:** Allowed

**Cargo aircraft only:** Allowed.

**Transport in bulk tankers according to Annex II of MARPOL 73/78 and the IBC**

**Code:** Not established.



Section 15. Regulatory Information

**US federal regulations:** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.  
All components are on the U.S. EPA TSCA Inventory List.

**CERCLA Hazardous Substance List (40 CFR 302.4):** Not listed.

**SARA 304 Emergency release notification:** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Immediate Hazard:** Yes

**Delayed Hazard:** No

**Fire Hazard:** No

**Pressure Hazard:** No

**Reactivity Hazard:** No

**SARA 302 Extremely hazardous substance:** Not listed.

**SARA 311/312 Hazardous chemical:** Yes

**SARA 313 (TRI reporting):** Not regulated.

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List:** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**  
Not regulated.

**Safe Drinking Water Act (SDWA):** Not regulated.

**US State Regulations**

**US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100):** Not listed.

**US Massachusetts RTK - Substance List:** Not regulated.

**US New Jersey Worker and Community Right-to-Know Act:** Not listed.

**US Pennsylvania Worker and Community Right-to-Know Law:** Not listed.

**US Rhode Island RTK:** Triphenyl Phosphite (CAS 101-02-0)

**US California Proposition 65:** California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.



### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### HMIS Rating

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

**Personnel Protection:** B

### NFPA Rating

**Health:** 2

**Flammability:** 0

**Reactivity:** 0

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.

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