

Infosafe No™

1CHPS

Issue Date : October 2019

RE-ISSUED by CHEMSUPP

Product Name : **TRIPHENYLPHOSPHINE**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	TRIPHENYLPHOSPHINE
<b>Company Name</b>	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
<b>Address</b>	38 - 50 Bedford Street GILLMAN SA 5013 Australia
<b>Telephone/Fax Number</b>	Tel: (08) 8440-2000 Fax: (08) 8440-2001
<b>Emergency phone number</b>	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)
<b>Recommended use of the chemical and restrictions on use</b>	Synthesis of organic compounds, phosphonium salts, other phosphorus compounds, polymerisation initiator and laboratory reagent.

<b>Other Names</b>	<b>Name</b>	<b>Product Code</b>
	TRIPHENYLPHOSPHINE LR	TL182
	Phosphorustriphenyl, Triphenylphosphorus, Phosphorus triphenyl, Triphenylphosphide, Triphenylphosphane	
<b>Other Information</b>	Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.	

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	Sensitization - Skin: Category 1
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H317 May cause an allergic skin reaction.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary statement – Prevention</b>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
<b>Precautionary statement – Response</b>	P272 Contaminated work clothing should not be allowed out of the workplace.
<b>Precautionary statement – Disposal</b>	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P302+P352 IF ON SKIN: Wash with plenty of soap and water.
	P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
	P363 Wash contaminated clothing before reuse.
	P501 Dispose of contents/container to an approved waste disposal plant.

## 3. Composition/information on ingredients

<b>Chemical Characterization Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>	<b>Hazard Symbol</b>	<b>Risk Phrase</b>
	Triphenylphosphine	603-35-0	100 %		



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## 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
<b>Ingestion</b>	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
<b>Skin</b>	Immediately remove contaminated clothing and wash affected area with water for at least 15 minutes. Ensure contaminated clothing is washed before re-use. Seek medical advice /attention depending on the severity.
<b>Eye contact</b>	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

<b>Hazards from Combustion Products</b>	May liberate toxic fumes in fire: oxides of carbon and phosphorus, phosphines.
<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO <sub>2</sub> , water spray or foam. Large fire: Use water spray, fog or foam.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

<b>Personal Precautions</b>	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.
<b>Clean-up Methods - Large Spillages</b>	Seek expert advice on handling and disposal.
<b>Environmental Precautions</b>	Prevent contamination of soil and water.

## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin, eyes and clothing . Use with adequate ventilation.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool,dry place. Store away from oxidizing agents. Store away from acids. Store away from sources of heat or ignition. Keep containers closed at all times. Store at 15 to 25 °C.

## 8. Exposure controls/personal protection

<b>Other Exposure Information</b>	No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m <sup>3</sup> . All atmospheric contamination should be kept to as low a level as is workable.
<b>Appropriate engineering controls</b>	In industrial situations maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. These methods should be used in preference to personal protective equipment.
<b>Respiratory Protection</b>	Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.



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<b>Eye Protection</b>	The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.
<b>Hand Protection</b>	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves - Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
<b>Personal Protective Equipment</b>	The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
<b>Hygiene Measures</b>	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

## 9. Physical and chemical properties

<b>Form</b>	Solid
<b>Appearance</b>	White to slightly yellowish crystalline solid.
<b>Odour</b>	Characteristic.
<b>Melting Point</b>	78.5 - 81.5 °C
<b>Solubility in Water</b>	Insoluble.
<b>Solubility in Organic Solvents</b>	Soluble in benzene, acetone, ether and carbon tetrachloride. Slightly soluble in alcohol.
<b>Specific Gravity</b>	1.194 (20 °C)
<b>Vapour Pressure</b>	0.01 hPa (88 °C)
<b>Vapour Density (Air=1)</b>	9.0
<b>Partition Coefficient:</b>	log Pow: > 2.587
<b>n-octanol/water</b>	
<b>Flash Point</b>	180 °C (OC)
<b>Flammability</b>	Combustible.
<b>Molecular Weight</b>	262.28

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable under normal use conditions.
<b>Conditions to Avoid</b>	Incompatibles. Strong heating.
<b>Incompatible Materials</b>	Strong oxidising agents and acids.
<b>Hazardous Decomposition Products</b>	Phosphine, oxides of carbon and oxides of phosphorus.
<b>Possibility of hazardous reactions</b>	Reacts vigorously with oxidising materials.
<b>Hazardous Polymerization</b>	Will not occur.

## 11. Toxicological Information

<b>Ingestion</b>	May cause sensations of coldness, weakness, vertigo, shortness of breath, stomach upset, loss of weight, convulsions, coma and death.
<b>Inhalation</b>	May cause irritation to respiratory tract. Symptoms may include coughing and dyspnoea. May cause neurotoxic effects including paresthesia.
<b>Skin</b>	May cause sensitisation by skin contact.
<b>Eye</b>	May cause irritation to the eyes.
<b>Skin Sensitisation</b>	Sensitization - Skin: Category 1



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**Carcinogenicity** No evidence of carcinogenic properties.

**Mutagenicity** No evidence of mutagenic properties.

**Other Information** Sensitization: Sensitization test (guinea pig): positive.

## 12. Ecological information

<b>Persistence and degradability</b>	Slightly biodegradable; difficult to degrade biological. The product will be mainly separated mechanically. Biodegradation: < 20%/28d.
<b>Environmental Fate</b>	Behaviour in environmental compartments: Distribution: log p(o/w): > 2.587 (20 °C).
<b>Environmental Protection</b>	May cause long term adverse effects in the aquatic environment.
<b>Acute Toxicity - Fish</b>	LC50 (Leuciscus idus): > 10,000 mg/l/96h.
<b>Acute Toxicity - Daphnia</b>	EC50 (Daphnia): > 5 mg/l/48h (above the solubility limit in the test medium).
<b>Acute Toxicity - Bacteria</b>	EC50 (Photobacterium phosphoreum): 1.54 mg/l/5 min microtox test.

## 13. Disposal considerations

**Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

## 14. Transport information

**Transport Information** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

## 15. Regulatory information

**Regulatory Information** Listed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.  
**Poisons Schedule** Not Scheduled

## 16. Other Information

**Literature References** 'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.  
Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons, Inc., NY, 1997.  
National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.  
Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.  
Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.  
Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.  
Safe Work Australia, 'Hazardous Chemical Information System, 2005'.  
Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances (2011)'.  
Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995) 3rd Edition]'.  
**Contact Person/Point** Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**  
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**Empirical Formula &** C18 H15 P

**Structural Formula**

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