



Infosafe No™	1CH50	Issue Date : June 2019	RE-ISSUED by CHEMSUPP
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Product Name : **PHENOL RED**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	PHENOL RED	
<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>	pH indicator: pH 0.0 (pink) to pH 2.0 (yellow), pH 6.8 (yellow) to pH 8.4 (red), analytical reagent, laboratory reagent and diagnostic agent for measuring kidney function (injected intramuscularly or intravenously) and intestinal absorption of drugs (taken orally), laboratory reagent.	
<b>Other Names</b>	<u>Name</u>	<u>Product Code</u>
	PHENOL RED SODIUM SALT AR	PA356
	PHENOL RED LR	PL079
	Phenolsulfonephthalein, Phenol red, free acid, Phenolsulfonphthalein, 4,4- (3H-2,1-benzoxathiol-3-ylidene)bis-phenol,S,S-dioxide	
	PHENOL RED AR	PA079

**Other Information**

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>	Eye Damage/Irritation: Category 2A Skin Corrosion/Irritation: Category 2 Specific target organ toxicity - Single Exposure Category 3
<b>Signal Word (s)</b>	WARNING
<b>Hazard Statement (s)</b>	H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.
<b>Pictogram (s)</b>	Exclamation mark



<b>Precautionary statement – Prevention</b>	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary statement – Response</b>	P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. 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.



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**Precautionary statement – Storage** P362 Take off contaminated clothing and wash before reuse.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

**3. Composition/information on ingredients****Chemical** Solid**Characterization****Ingredients**

<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
Phenol Red, Sodium Salt	34487-61-1	100 %		
Phenol red	143-74-8	100 %		

**Other Information** Available as the pure compound (acid) and as the water-soluble monosodium salt [34487-61-1]. Much of the information in this record also applies to the sodium salt.  
Commonly used as the sodium salt or as a solution in dilute sodium bicarbonate or sodium hydroxide.

**4. First-aid measures**

**Inhalation** Remove victim to fresh air. Seek medical advice if effects persist.

**Ingestion** 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.

**Skin** Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.

**First Aid Facilities** Maintain eyewash fountain and safety shower in work area.

**Advice to Doctor** Treat symptomatically based on judgement of doctor and individual reactions of the patient.

**Other Information** 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**

**Hazards from Combustion Products** May liberate toxic fumes in fire (oxides of carbon and sulphur).

**Specific Methods** 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.

**Specific hazards arising from the chemical** May burn but do not ignite readily. Containers may explode when heated. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive gases.

**Precautions in connection with Fire** Wear SCBA and structural firefighter's uniform.

**6. Accidental release measures**

**Personal Precautions** Avoid inhalation, contact with skin, eyes and clothing. Avoid dust formation and avoid breathing dust.

**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)

**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

**Clean-up Methods - Large Spillages** Seek expert advice on handling and disposal.

**7. Handling and storage**

**Precautions for Safe Handling** Avoid generation or accumulation of dusts. Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Conditions for safe storage, including any incompatibilities** Store in a cool, dry place. Store in well ventilated area. Keep containers securely sealed and protected against physical damage. Keep away from heat and other sources of ignition.



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**8. Exposure controls/personal protection**

<b>Occupational exposure limit values</b>	No exposure standards have been established for this material, however, the TWA National Occupational Health And Safety Commission (NOHSC) exposure standards for dust not otherwise specified is 10 mg/m <sup>3</sup> .
<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.
<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.
<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.
<b>Personal Protective Equipment</b>	Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand or other approved standards.
<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>	Bright to dark red powder.
<b>Odour</b>	Weak odour.
<b>Melting Point</b>	>300 °C
<b>Solubility in Water</b>	0.77 g/l at 100°C
<b>Solubility in Organic Solvents</b>	Slightly soluble in alcohol and acetone. Almost insoluble in chloroform and ether. Soluble in alkali hydroxides and carbonates.
<b>Partition Coefficient: n-octanol/water</b>	logP(o/w): 3.02
<b>Flammability</b>	Combustible.
<b>Molecular Weight</b>	354.38
<b>Other Information</b>	Basicity: Weak base - pKa = 7.9

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable under normal use conditons. Stable in air. Stable to heat (can be autoclaved).
<b>Conditions to Avoid</b>	Incompatibles.
<b>Incompatible Materials</b>	Strong acids and bases, strong oxidising agents and strong reducing agents.
<b>Hazardous Decomposition Products</b>	Oxides of sulfur and carbon.
<b>Hazardous Polymerization</b>	Will not occur.



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**11. Toxicological Information**

<b>Ingestion</b>	Phenol red is used medically as a marker for intestinal absorption of drugs. It seems to have no harmful effects when taken in small doses. Large doses may cause nausea, vomiting and diarrhea. May be a strong laxative. May cause blood pressure to fall or itching skin rash.
<b>Inhalation</b>	Dusts or mists may be irritating to mucous membranes and upper respiratory tract.
<b>Skin</b>	Dusts or mists may be irritating.
<b>Eye</b>	Dusts or mists may be irritating.
<b>Chronic Effects</b>	Allergic reactions may occasionally occur.
<b>Mutagenicity</b>	Mutagenic in a bacterial test (Ames Salmonella) with and without addition of a liver extract (Chung et al., 'Mutagenicity testing of some commonly used dyes', Applied and Environmental Microbiology, 1981).

**12. Ecological information**

<b>Ecotoxicity</b>	No ecological data available for this product.
<b>Bioaccumulative Potential</b>	Not expected log Pow:3.02.

**13. Disposal considerations**

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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**14. Transport information**

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
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**15. Regulatory information**

<b>Regulatory Information</b>	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.
<b>Poisons Schedule</b>	Not Scheduled

**16. Other Information**

<b>Literature References</b>	'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]'.
<b>Contact Person/Point</b>	Paul McCarthy Ph. (08) 8440 2000 <b>DISCLAIMER STATEMENT:</b> All information provided in this data sheet or by our technical representatives is compiled from the best knowledge available to us. However, since data, safety standards and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, we make no warranty either expressed or implied, with respect to the completeness or accuracy to the information contained herein. Chem-Supply accepts no responsibility whatsoever for its accuracy or for any results that may be obtained by customers from using the data and disclaims all liability for reliance on information provided in this data sheet or by our technical representatives.
<b>Empirical Formula &amp; Structural Formula</b>	C <sub>19</sub> H <sub>14</sub> O <sub>5</sub> S ...End Of MSDS...



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# Safety Data Sheet

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