



Infosafe No™	1CHAB	Issue Date : July 2019	RE-ISSUED by CHEMSUPP
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Product Name : **POTASSIUM POLYSULFIDE**

Classified as hazardous

1. Identification

GHS Product Identifier POTASSIUM POLYSULFIDE

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

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SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000
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Emergency phone number CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

Recommended use of the chemical and restrictions on use Medicine, fungicide, depilatory and laboratory reagent.

Other Names**Name****Product Code**Liver of Sulfur
POTASSIUM POLYSULFIDE TG

PT040

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

GHS classification of the substance/mixture Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Eye Damage/Irritation: Category 1
Skin Corrosion/Irritation: Category 1B

Signal Word (s) DANGER

Hazard Statement (s) H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
AUH031 Contact with acids liberates toxic gas

Pictogram (s) Corrosion, Environment

**Precautionary statement – Prevention**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P363 Wash contaminated clothing before reuse.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.
P405 Store locked up.

Precautionary statement – Storage



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

Other Information Contact with acids will liberate toxic gas.

3. Composition/information on ingredients

Chemical Characterization	Solid				
Information on Composition	Assay (K ₂ S) > 42%.				
Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Potassium Polysulfide	37199-66-9	100 %		

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing. If breathing is difficult, give oxygen. Consult a physician.

Ingestion Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin 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.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.

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 (hydrogen sulfide gas and sulfur oxides).

Specific Methods Small fire: Use dry chemical, CO₂ or water spray. If safe to do so, move undamaged containers from the fire area.
Large fire: Use dry chemical, CO₂, foam or water spray - Do NOT use water jets.
Cool containers with flooding quantities of water until well after the fire is out. Avoid getting water inside the containers.

Hazchem Code 2X

Precautions in connection with Fire Wear SCBA and chemical splash suit. Fully encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Spills & Disposal Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 50m. Do NOT touch or walk through this product. Do NOT touch damaged containers or spilled material unless wearing appropriate protective clothing. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas.
Cover with DRY earth, sand or other non-combustible material followed by plastic sheet to minimize spreading or contact with rain.
DO NOT GET WATER INSIDE CONTAINERS.

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.

Environmental Precautions Prevent further leakage or spillage and prevent from entering drains

7. Handling and storage

Precautions for Safe Handling Avoid ingestion and inhalation of material. Avoid contact with eyes, skin and clothing. Wash hands and face thoroughly after working with material.



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Conditions for safe storage, including any incompatibilities Store in cool place and out of direct sunlight. Store away from acids. Keep containers closed at all times. Keep container dry

Storage Regulations Refer Australian Standard AS 3780-1994 'The storage and handling of corrosive substances'.

8. Exposure controls/personal protection

Other Exposure Information	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 ³ . All atmospheric contamination should be kept to as low a level as is workable.
Appropriate engineering controls	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.
Respiratory Protection	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.
Eye Protection	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.
Hand Protection	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.
Personal Protective Equipment	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.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
Body Protection	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.
Hygiene Measures	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

Form	Solid
Appearance	Reddish-brown when fresh changing to greenish-yellow with age.
Odour	Characteristic odour.
Melting Point	200 - 250 °C
Solubility in Water	Soluble.
Solubility in Organic Solvents	Soluble in alcohol.
Specific Gravity	1.65
pH	pH 13 (10g/l H ₂ O).
Flash Point	> 200 C
Flammability	Flammable.
Auto-Ignition Temperature	> 400 C

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Stable; dust may form an explosive mixture with air; sensitive to heat.
Conditions to Avoid	Exposure to moisture. Exposure to air. Incompatibles.



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Incompatible Materials	Strong acids, alcohols, strong oxidizing agents, strong reducing agents, combustible materials, most common metals, halogenated hydrocarbons.
Hazardous Decomposition Products	Hydrogen sulfide gas and sulfur oxides.
Possibility of hazardous reactions	Contact with acids liberates toxic hydrogen sulfide gas.

11. Toxicological Information

Ingestion	May be toxic by ingestion. Causes burns mucous membrane in the mouth, pharynx, oesophagus, gastrointestinal tract, due to hydrolysis of potassium sulfide, but greater danger is formation of hydrogen sulfide in the stomach and its absorption. Symptoms that occur may be similar to those of inhalation with diarrhea. Risk or perforation in the oesophagus and stomach.
Inhalation	Harmful if inhaled. May cause irritation to the respiratory tract. Symptoms include of coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may lead to the formation of oedemas in the respiratory tract.
Skin	Causes burns. Irritant, especially if hydrolysis occurs on moist skin. Harmful if absorbed through the skin.
Eye	Causes burns. Irritant, possibly corrosive or abrasive in acute cases. Conjunctivitis, photophobia, pain, blurred vision are symptoms.
Carcinogenicity	No evidence of carcinogenic properties.
Health Hazard	Production of poisonous hydrogen sulfide from reaction with acids or high temperature hydrolysis is a significant secondary hazard.
Mutagenicity	No evidence of mutagenic properties.
Other Information	To the best of our knowledge the chemical, physical and toxicity of this substance has not been fully investigated.

12. Ecological information

Ecological Information	Very toxic to aquatic life.
Environmental Protection	Do not allow product to enter drains, waterways or sewers. Highly toxic to aquatic life.

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.
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14. Transport information

Transport Information	Dangerous goods of Class 8 (Corrosive) are incompatible in a placard load with any of the following: Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, Class 7; and are incompatible with food and food packaging in any quantity.
U.N. Number	3262
UN proper shipping name	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. - (Potassium polysulfide)
Transport hazard class(es)	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
IERG Number	37

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



chem-supply

Safety Data Sheet

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**Literature
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 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 &
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