



Infosafe No™	1CH6V	Issue Date : September 2018	RE-ISSUED by CHEMSUPP
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Product Name : **SODIUM THIOCYANATE**

Classified as hazardous

1. Identification

GHS Product Identifier	SODIUM THIOCYANATE	
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)	
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia	
Telephone/Fax Number	Tel: (08) 8440-2000 Fax: (08) 8440-2001	
(24 hour a day available)	CHEMCALL: 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Analytical reagent, dyeing and printing textiles, black nickel plating, manufacture of other thiocyanate salts and artificial mustard oil, solvent for polyacrylates, medicine (antihypertensive) and laboratory reagent.	
Other Names	<u>Name</u>	<u>Product Code</u>

Sodium sulfocyanide, Sodium sulfocyanate, Sodium rhodanide, Sodium rhodanate
SODIUM THIOCYANATE AR

SA055

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	Acute Toxicity - Dermal: Category 4 Acute Toxicity - Inhalation: Category 4 Acute Toxicity - Oral: Category 4 Eye Damage/Irritation: Category 1
Signal Word (s)	WARNING
Hazard Statement (s)	H302 Harmful if swallowed. H312 Harmful in contact with skin. H318 Causes serious eye damage. H332 Harmful if inhaled. AUH032 Contact with acids liberates very toxic gas.
Pictogram (s)	Corrosion, Exclamation mark



Precautionary statement – Prevention	P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary statement – Response	P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P302+P352 IF ON SKIN: Wash with plenty of soap and water. 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,



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Precautionary statement – Disposal

if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Sodium thiocyanate	540-72-7	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. Immediately obtain medical aid if cough or other symptoms appear.

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 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 If contact with the eye(s) occurs, wash with copious amounts of water for approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.

First Aid Facilities Eye wash station, safety shower and normal washroom facilities.

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

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Specific Methods No limitations to the type of extinguishing media. Use measures suitable for extinguishing surrounding fire.

Specific hazards arising from the chemical Material does not burn. Fire or heat may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Runoff may pollute waterways.

Decomposition Temp. > 368 °C

Precautions in connection with Fire Use suitable protective equipment for surrounding fire.

6. Accidental release measures

Personal Precautions Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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

Clean-up Methods - Small Spillages Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

Environmental Precautions Do not discharge into drains, surface water or ground water. Do not discharge to subsoil/soil.

7. Handling and storage

Precautions for Safe Handling Do not breathe (dust, vapor or spray mist) Do not use in areas without adequate ventilation. Keep container closed when not in use. Wear suitable protective clothing, including gloves. Avoid generation and inhalation of dusts.

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

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/m3. All atmospheric contamination should be kept to as low a level as is workable.



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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	Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance.
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.
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

Appearance	Colourless, deliquescent crystals or white powder.
Odour	Odourless
Decomposition Temperature	> 368 °C
Melting Point	287 °C
Solubility in Water	1250 g/L (20 °C)
Solubility in Organic Solvents	Soluble in alcohol.
Specific Gravity	1.74
pH	~ 6.5 - 8.5 (100 g/l, H ₂ O, 20 °C)
Vapour Pressure	< 1 hPa (20 °C)
Flammability	Not combustible, but will give off highly toxic cyanide fumes if involved in a fire or exposed to heat.
Molecular Weight	81.07
Other Information	Hygroscopic and affected by light.

10. Stability and reactivity

Chemical Stability	Stable. Sensitive to strong heating.
Incompatible Materials	Strong oxidising agents, strong acids, strong bases, chlorates, nitrates, nitrites, peroxides and mineral acids.
Hazardous Decomposition Products	Nitrogen oxides, sulfur compounds and hydrogen cyanide.
Possibility of hazardous reactions	Contact with acid may liberate hydrogen cyanide, a very toxic gas.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	LD50 oral (rat): 764 mg/kg.
Ingestion	Harmful if swallowed. May cause vomiting, disorientation, weakness, low blood pressure convulsions and death which may be delayed.



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Inhalation	Harmful by inhalation. May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath.
Skin	Harmful in contact with skin. Causes redness, itching and pain. May cause sensitization.
Eye	Causes serious eye damage.
Carcinogenicity	No significant ingredient is classified as carcinogenic by Safe Work Australia. No significant ingredient is classified as carcinogenic by International Agency for Research on Cancer.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis. Symptoms of chronic poisoning include weakness, confusion, diarrhoea and skin rashes. Repeated ingestion of small amounts may cause hives, abnormal bleeding, enlarged thyroid, weakness, confusion, diarrhea, psychosis and collapse.

12. Ecological information

Information on Ecological Effects	Ecotoxic effects: Biological effects: Fish toxicity: P. promelas LC50: > 100 mg/l/96 h. Daphnia toxicity: Daphnia magna EC50: 11 mg/l/48 h. Algal toxicity: Selenastrum capricornutum IC0: > 100 mg/l. Bacterial toxicity: Ps. putida EC10: 8000 mg/l. Biodegradable.
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13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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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.
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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 Substances 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]'. Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT: 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.
Contact Person/Point	
Empirical Formula & Structural Formula	NaSCN ...End Of MSDS...



chem-supply

Safety Data Sheet

infosafe
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