



Infosafe No™	3CH5K	Issue Date : November 2019	RE-ISSUED by ABS
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Product Name : **THORIN I**

Classified as hazardous

**1. Identification**

<b>GHS Product Identifier</b>	THORIN I	
<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>Other Names</b>	<b>Name</b>	<b>Product Code</b>
<b>Additional Information</b>	2-(3,6-disulfo-2-hydroxy-1-naphthylazo)benzenearsonic acid, disodium salt	
	1-(2-Arsonophenylazo)-2-naphthol-3,6-disulfonic acid disodium salt	
	2-(2-Hydroxy-3,6-disulfo-1-naphthylazo)phenylarsonic acid disodium salt	
	THORIN I	TL212
<b>Other Information</b>	Indicator. Used for the determination of Barium.	

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>	Hazardous to the Aquatic Environment - Acute Hazard: Category 1 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1 Acute Toxicity - Inhalation: Category 3 Acute Toxicity - Oral: Category 3
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H301 Toxic if swallowed. H331 Toxic if inhaled. H410 Very toxic to aquatic life with long lasting effects.
<b>Pictogram (s)</b>	Environment, Skull and crossbones



<b>Precautionary statement – Prevention</b>	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. P273 Avoid release to the environment.
<b>Precautionary statement – Response</b>	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P311 Call a POISON CENTER or doctor/physician. P391 Collect spillage.
<b>Precautionary statement – Storage</b>	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.



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

**3. Composition/information on ingredients**

<b>Chemical Characterization</b>	Solid				
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Thorin I	3688-92-4	100 %	T, N	R23/25, R51/53

**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. Consult a physician.
<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. In case of contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
<b>Eye contact</b>	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.
<b>First Aid Facilities</b>	Eye wash and normal washroom facilities.
<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 a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

**5. Fire-fighting measures**

<b>Suitable extinguishing media</b>	Use appropriate fire extinguisher for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
<b>Special Protective Equipment for fire fighters</b>	Full protective clothing and self-contained breathing apparatus.
<b>Specific hazards arising from the chemical</b>	On burning will emit toxic fumes. Carbon oxides, nitrogen oxides, arsenic oxides.
<b>Hazchem Code</b>	2X

**6. Accidental release measures**

<b>Personal Precautions</b>	Evacuate the area of all non-essential personnel. 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>	Wear respiratory protection.
<b>Environmental Precautions</b>	Avoid release to the environment.

**7. Handling and storage**

<b>Precautions for Safe Handling</b>	Do not breathe dust. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure. Wear protective clothing specified for normal operations (see Section 8).
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed Keep only in original container. Store in a cool, dry well-ventillated area away from incompatible substances.
<b>Storage Regulations</b>	Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.
<b>Other Information</b>	Very hygroscopic.

**8. Exposure controls/personal protection**



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--------------	-------	----------------------------	------------------

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Occupational exposure limit values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Thorin I			0.05		Arsenic & soluble compounds (as As) Ar
<b>Other Exposure Information</b>	<p>These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.</p> <p>TWA - the Time-Weighted Average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.</p>					
<b>Appropriate engineering controls</b>	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. 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>	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 impervious clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.					
<b>Hygiene Measures</b>	Wash hands thoroughly after handling this material. Wash contaminated clothing before reuse.					

**9. Physical and chemical properties**

<b>Form</b>	Solid
<b>Appearance</b>	Orange to red powder.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	> 300 °C
<b>Solubility in Water</b>	Soluble
<b>Molecular Weight</b>	576.3

**10. Stability and reactivity**

<b>Chemical Stability</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Conditions to Avoid</b>	Avoid incompatible materials (strong oxidising agents), moisture and excess heat.
<b>Incompatible Materials</b>	Strong oxidizing agents.



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<b>Hazardous Decomposition Products</b>	Carbon monoxide Carbon dioxide Oxides of nitrogen Sulfur oxides Arsenic Oxides
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<b>Hazardous Polymerization</b>	Does not occur. Has not been reported.
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**11. Toxicological Information**

<b>Ingestion</b>	Toxic if swallowed.
<b>Inhalation</b>	May be irritataing to mucus membranes and upper respiratory tract. Toxic if inhaled.
<b>Skin</b>	No data supplied.
<b>Eye</b>	No information available.
<b>Respiratory sensitisation</b>	No information available.
<b>Skin Sensitisation</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive Toxicity</b>	No information available.
<b>STOT-single exposure</b>	No information available.
<b>STOT-repeated exposure</b>	No information available.
<b>Mutagenicity</b>	No information available.

**12. Ecological information**

<b>Ecological Information</b>	No information available. Adverse ecological effects cannot be excluded in the event of improper handling or disposal.
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**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>	Dangerous Goods of Class 6 Toxic and Infectious Substances are incompatible in a placard load with any of the following: - Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, and are incompatible with food packaging in any quantity.
<b>U.N. Number</b>	3465
<b>UN proper shipping name</b>	ORGANOARSENIC COMPOUND, SOLID, N.O.S. - (1-(2-Arsonophenylazo)-2-naphthol-3,6-disulfonic acid disodium salt)
<b>Transport hazard class(es)</b>	6.1
<b>Hazchem Code</b>	2X
<b>Packing Group</b>	II
<b>IERG Number</b>	35

**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.
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**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.
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# Safety Data Sheet

infosafe  
CS: 1.7.2

Page: 5 of 5

Infosafe No™	3CH5K	Issue Date : November 2019	RE-ISSUED by ABS
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Product Name : **THORIN I**

Classified as hazardous

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**

Paul McCarthy Ph. (08) 8440 2000 **DISCLAIMER STATEMENT:**

**Person/Point**

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**Empirical Formula & Structural Formula**

C16H11AsN2O10S2.2Na

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