

## Safety Data Sheet

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Infosafe No™ 1CHKE

Issue Date : February 2020

RE-ISSUED by CHEMSUPP

Product Name : ARSENIC TRIOXIDE

1. Identification	
GHS Product Identifier	ARSENIC TRIOXIDE
Company Name	CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)
Address	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone/Fax	Tel: (08) 8440-2000
Number	FaX: (08) 8440-2001
Emergency phone	CHEMICALE 1600 127 406 (Australia) / +64-4-917-9666 (International)
Recommended use	Pigments, ceramic enamels, aniline colours, decolourising agent in glass, rodenticide, insecticide,
of the chemical and	herbicide, sheep and cattle dip, hide preservative, wood preservative, preparation of other arsenic
restrictions on use	compounds and laboratory reagent.
Other Names	Name Product Code
	ARSENIC TRIOXIDE AR AA057
	ARSENIC TRIOXIDE LR AL057
	Arsenic (III) oxide, Arsenous anhydride
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
	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.
	In sproduct is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices
	or payment of the cost of replacing the goods or acquiring equivalent goods.
2 Hazard Identifi	cation
GHS classification	Acute Toxicity - Oral: Category 2
of the	Acute Toxicity - Inhalation: Category 3
substance/mixture	Carcinogenicity: Category 1A
	Germ Cell Mutagenicity: Category 2 Skin Corresion/Irritation: Category 1A
	Specific Target Organ Toxicity - Repeated Exposure Category 1
	Hazardous to the Aquatic Environment - Acute Hazard: Category 1
0	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Signal word (s)	DANGER
Hazard Statement	H300 Fatal It swallowed.
(S)	H350 May cause cancer.
	H341 Suspected of causing genetic defects.
	H314 Causes severe skin burns and eye damage.
	H3/2 Causes damage to organs through prolonged or repeated exposure.
Pictogram (s)	Corrosion, Environment, Health hazard, Skull and crossbones
0 ()	
Broodutionary	P201 Obtain special instructions before use
statement –	P202 Do not handle until all safety precautions have been read and understood.
Prevention	P260 Do not breathe dust/fume/gas/mist/vapours/spray.
	P264 Wash thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	1 27 1 000 only outdoors of in a weinventilated area.



## Safety Data Sheet

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Product Name :	ARSENIC TRIOXIDE				
	C	lassified as haza	ardous		
Precautionary statement – Response	<ul> <li>P280 Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P281 Use personal protective equipment as required.</li> <li>P273 Avoid release to the environment.</li> <li>P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</li> <li>P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.</li> <li>P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>P363 Wash contaminated clothing before reuse.</li> <li>P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P310 Immediately call a POISON CENTER or doctor/physician.</li> <li>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P308+P313 IF exposed or concerned: Get medical advice/attention.</li> <li>P301 Collect spillage</li> </ul>				
Precautionary	P403+P233 Store in a well-ve	entilated place. Ke	ep container tightly	y closed.	
statement – Storage Precautionary	P405 Store locked up. P501 Dispose of contents/col	ntainer to an appro	oved waste dispos	al plant.	
statement –					
Disposal	<u> </u>				
3. Composition/in	nformation on ingredie	nts			
Characterization	Solia				
Ingredients	<u>Name</u>	CAS	<b>Proportion</b>	Hazard Symbol	<u>Risk Phrase</u>
	Arsenic trioxide	1327-53-3	100 %		
4. First-aid meas	ures				
Inhalation	If inhaled, remove from conta patient comfortable, keep wa bluish skin discolouration), su respiratory medical device if r medical attention is required.	minated area to fr rm and at rest unti upply oxygen by a not breathing. Do r	esh air immediatel I fully recovered. I qualified person. A not use mouth to n	y, avoid becoming a f breathing is difficult apply artificial respira nouth resuscitation. In	casualty. Make (or develops a tion with a mmediately
Ingestion	Rinse mouth thoroughly with	water immediately	. DO NOT INDUC	E VOMITING. Seek i	mmediate medical
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and				
Eye contact	wash before re-use. Seek medical attention. Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical attention.				
First Aid Facilities	Maintain eyewash fountain ar	nd safety shower in	n work area.		
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.				
Most important symptoms/effects, acute and delayed	Exposure to arsenic compounds can cause burning and dryness of the oral and nasal cavities, muscle spasms, irritation of the gastrointestinal tract, nausea, vomiting, and diarrhea, which can progress to shock and death.				
Other Information	For advice, contact a Poisons 766) or a doctor at once.	s Information Cent	re (Phone eg Aust	ralia 13 1126; New Z	ealand 0800 764
5. Fire-fighting m	neasures				
Hazards from	May librate toxic fumes in fire	including arsenic	compounds and o	xides.	
Products					
Specific Methods	No limitations to the type of e	vtinguishing media	<ul> <li>Lico ovtinguichi</li> </ul>	na modia most appro	and a factor for a factor

If safe to do so, move undamaged containers from fire area. Large fire: Use water spray, fog or foam - Do not use water jets. Cool containers with flooding quantities of water until well after fire is out. Avoid getting water inside containers.



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Infosafe No™	1CHKE Issue Date : February 2020	RE-ISSUED by CHEMSUPP
Product Name :	ARSENIC TRIOXIDE	
	Classified as hazardous	
Specific hazards arising from the chemical	Material does not burn. Fire or heat will produce irritating, poisc pollute waterways.	onous and/or corrosive gases. Runoff may
Hazchem Code	2X	
Precautions in connection with Fire	Wear SCBA and chemical splash suit. Fully-encapsulating, gas e protection. Structural firefighter's uniform is NOT effective for th	s-tight suits should be worn for maximum nese materials.
6. Accidental rele	ease measures	
Spills & Disposal Personal	Do not touch or walk through spilled material. Do not touch dan unless wearing appropriate protective clothing. Stop leak if safe drains or confined areas. Cover with plastic sheet to prevent sp non-combustible material and transfer to container. DO NOT GET WATER INSIDE CONTAINERS. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL. Evacuate the area of all non-essential personnel. Avoid substa	naged containers or spilled material e to do so - Prevent entry into waterways, preading. Absorb with earth, sand or other ance contact. Avoid generation of dusts:
Precautions	do not inhale dusts. Ensure supply of fresh air in enclosed roor	ns.
Personal Protection	Wear protective clothing specified for normal operations (see S	Section 8)
Clean-up Methods - Small Spillages Environmental Precautions	Sweep up (avoid generating dust) and remove to a suitable, cle accordance with local regulations. Prevent from spreading or entering into drains, ditches or rivers appropriate barriers.	early labelled container for disposal in s by using sand, earth, or other
7. Handling and	storage	
Precautions for Safe Handling Conditions for safe storage, including	<ul> <li>Avoid generation or accumulation of dusts. Avoid exposure - o case of insufficient ventilation, wear suitable respiratory equipm contact with skin, eyes and clothing. Wash hands and face the local exhaust extraction.</li> <li>Store in a cool,dry place. Keep containers closed at all times. heat. Store away from foodstuffs.</li> </ul>	btain special instructions before use In nent. Avoid prolonged or repeated oroughly after working with material. Use Store away from acids. Store away from
any	Keep locked up.	
Storage Regulations	s Refer Australian Standard AS 4452 - 1997 'The storage and ha	ndling of toxic substances'.
Other Information	Prevent any possibility of contact with this product. Pay strict at working with a carcinogen.	ttention to hygiene precautions when
8. Exposure cont	trols/personal protection	
Other Exposure Information	These Workplace Exposure Standards are guides to be used in hazards. All atmospheric contamination should be kept to as lo workplace exposure standards should not be used as fine divid concentrations of chemicals. They are not a measure of relative A time weighted average (TWA) has been established for Arser Work Australia) of 0.05 mg/m <sup>3</sup> . The exposure value at the TWA a particular substance when calculated over a normal 8 hour w	n the control of occupational health w a level as is workable. These ling lines between safe and dangerous e toxicity. nic & soluble compounds (as As) (Safe s is the average airborne concentration of orking day for a 5 day working week.
Appropriate engineering controls Respiratory Protection	Maintain the concentrations values below the TWA. This may b s of local exhaust ventilation, capturing substances at the source Where ventilation is not adequate, respiratory protection may b or mists. Respiratory protection should comply with AS 1716 - F selected in accordance with AS 1715 - Selection, Use and Mair Devices. Filter capacity and respirator type depends on exposu planned entry into unknown concentrations a positive pressure respiratory protection is required, institute a complete respirato fit testing, training, maintenance and inspection.	e achieved by process modification, use e, or other methods. be required. Avoid breathing dust, vapours Respiratory Protective Devices and be ntenance of Respiratory Protective ure levels. In event of emergency or , full-facepiece SCBA should be used. If ry protection program including selection,
Eye Frolection	Must comply with Australian Standards AS 1337 and be selected	and used in accordance with AS 1336

Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.Hand ProtectionWear gloves of impervious material conforming to AS/NZS 2161: Occupational protective gloves -<br/>Selection, use and maintenance. Final choice of appropriate glove type will vary according to individual<br/>circumstances. This can include methods of handling, and engineering controls as determined by<br/>appropriate risk assessments. Avoid skin contact when removing gloves from hands, do not touch the

gloves outer surface. Dispose of gloves as hazardous waste.



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		Classified as hazardous	
Personal Protective Equipment	Personal protective equ when all other reasonab Guidance in selecting po Zealand or other approv	ipment should not solely be relied upon to ily practicable control measures do not elin ersonal protective equipment can be obtair red standards	control risk and should only be used ninate or sufficiently minimise risk. ned from Australian, Australian/New
Footwear	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 protec	tive clothing should be worn, preferably with AS 3765 Clothing for Protect	h an apron. Clothing for protection
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 c	hemical properties		
Form	Solid		
Appearance	White to beige powder.		
Odour	Odourless.		
Melting Point	312.3 °C		
Bolling Point	$457.2 - 465 ^{\circ}$	<b>N</b>	
Solubility in Water	Soluble (21 g/L @ 20 C	y) s and alveerin. Practically insoluble in alcol	and chloroform and other
Solvents			
Specific Gravity	3.74		
Flammability	Non combustible materi	al.	
Molecular Weight	197.84		
Other Information	Taste: Tasteless.		
10. Stability and	reactivity		
Chemical Stability	Stable under normal use	e conditons.	
Conditions to Avoid	Moisture. Dust generati	on. Incompatibles. Excess heat.	
Incompatible Materials	Strong oxidizing agents,	, metals, tannic acid, infusion cinchona and	other vegetable astringent infusions
Hazardous	May librate toxic fumes i	in fire including arsenic compounds and ox	ides.
Decomposition			
Products Hazardous	Will not occur.		
Polymerization			
11. Toxicological	Information		
Acute Toxicity - Oral	LD50 (rat): 14.6 mg/kg.		
Ingestion Inhalation	Very toxic, may be fatal nausea, vomiting, heada progress over a period of gastroenteritis, burning gastrointestinal tract do Later effects include col Toxic if inhaled. Material Symptoms may include difficult or laboured brea	if swallowed. Causes severe digestive trac ache, dizziness, chills, cramps, irritability ar of several weeks. Large amounts may caus oesophageal pain, vomiting, convulsions, c not occur immediately, but are delayed fro d and clamy skin, fall in blood pressure and is extremely destructive to the mucous me respiratory irritation, pulmonary edema, cy athing. May cause allergic respiratory reacti	t irrition. Symptoms include of ad variable paralysis which may e severe haemorrhagic gastritis or coma and death. The effects on the m several minutes to a few hours. d weakness. Ambranes and upper respiratory tract. anosis, coughing, restlessness and ion.
Skin	Causes burns and may	cause skin irritation.	
Eye	Causes burns. May cau	se eye irritation, corneal burns and conjunc	tivitis.

Not classified based on available information. Respiratory sensitisation

**Skin Sensitisation** Not classified based on available information. Germ Cell Mutagenicity: Category 2 Germ cell H341 Suspected of causing genetic defects. mutagenicity

Carcinogenicity Group 1: The agent is carcinogenic to humans.



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	Classified as hazardous
Reproductive	This category is used when there is sufficient evidence of carcinogenicity in humans. Exceptionally, an agent may be placed in this category when evidence of carcinogenicity in humans is less than sufficient but there is sufficient evidence of carcinogenicity in experimental animals and strong evidence in exposed humans that the agent acts through a relevant mechanism of carcinogenicity. Arsenic compounds (NB: This evaluation applies to the group of compounds as a whole and not necessarily to all individual compounds within the group) is evaluated in the IARC Monographs (Vol. 23, Suppl. 7;1987) as Group 1: Carcinogenic to humans. Not classified based on available information.
STOT-single	Not classified based on available information.
STOT-repeated exposure Aspiration Hazard	Specific Target Organ Toxicity - Repeated Exposure Category 1 H372 Causes damage to organs through prolonged or repeated exposure. Not classified based on available information.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis with symptoms including cracking, thickening, pigmentation and skin drying. Prolonged exposure to arsenic compounds can cause exfoliation and pigmentation of skin, herpes, inflammation of nerves, and nasal septum ulceration. Dry mouth, a metallic taste, drowsiness, loss of appetite, excessive salivation, nausea, vomiting and a foul, garlic-like breath.
Serious eye	H314 Causes severe skin burns and eye damage.
Skin corrosion/irritation	Skin Corrosion/Irritation: Category 1A H314 Causes severe skin burns and eye damage.
12. Ecological in	formation
Ecological Information	Adverse ecological effects cannot be excluded in the event of improper handling or disposal.
Ecotoxicity	Highly toxic for aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Mobility	Highly mobilein all environments due to water solubility.
Bioaccumulative Potential	Bioconcentration factor (Lepomis cynaellus): 236
Other Precautions	Do not allow to enter waters, waste water, or soil!
Acute Toxicity - Fish	LC50 (Oncohynchus mykiss - rainbow trout): >1000 mg/l/96h
Acute Toxicity - Daphnia	EC50 (Daphnia magna - Water flea): 8.23 mg/l/24h
13. Disposal con	siderations
Disposal Considerations Container Disposal	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations. Dispose of containers/packaging as hazardous waste.
14. Transport inf	ormation
Transport Information	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 and food packaging in any quantity.
UN proper shipping name Transport bozard	
class(es)	
Hazchem Code	2X

Packing Group

**EPG Number** 

**IERG Number** 

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15. Regulatory information

## Product Name : ARSENIC TRIOXIDE

Classified as hazardous

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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	S7
16. Other Inform	ation
Literature	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.
References	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 fot 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:
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