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Infosafe No™

Issue Date : April 2020

RE-ISSUED by CHEMSUPP

Product Name : SELENIUM METAL

1CHOC

	Classified as hazardous	
1. Identification		
GHS Product	SELENIUM METAL	
Identifier		
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 Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use Other Names	Electronics, xerographic plates, TV cameras, photocells, magnetic comput (rectifiers, relays), ceramics (colorant for glass), steel and copper (degasif improver), rubber accelerator, catalyst, trace element in animal feeds and <u>Name</u> Selenium	ier and machinability
	Elemental selenium Selenium dust Selenium homopolymer	
	SELENIUM METAL Powder AR	SA299
Other Information	Chem-Supply Pty Ltd does not warrant that this product is suitable for any must ascertain the suitability of the product before use or application inten testing of the product before use or application is recommended. Any relia upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice this product of any purpose is disclaimed. Except to the extent prohibited a any statute as to the merchantable quality of this product or fitness for any This product is not sold by description. Where the provisions of Part V, Div Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacemen or payment of the cost of replacing the goods or acquiring equivalent good.	ded purpose. Preliminary ince or purported reliance e in relation to the suitability of at law, any condition implied by purpose is hereby excluded. vision 2 of the Trade Practices t of supply of equivalent goods
2. Hazard Identifi	ication	
GHS classification	Acute Toxicity - Inhalation: Category 3	
of the substance/mixture	Acute Toxicity - Oral: Category 3 Specidic Target Organ Toxicity - Repeated Exposure Category 2	
Signal Word (s)	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 4 DANGER	
Hazard Statement	H301+H331 Toxic if swallowed or inhaled.	
(s) Pictogram (s)	H373 May cause damage to organs through prolonged or repeated expose H413 May cause long lasting harmful effects to aquatic life. Health hazard, Skull and crossbones	ure.
Pictogram (S)		
Precautionary statement – Prevention	 P260 Do not breathe dust/fume/gas/mist/vapours/spray. P264 Wash skin 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. 	
Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or do P311 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 breathing.	
Precautionary statement – Storage	P314 Get medical advice/attention if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.	
Print Date: 8/04/2020		CS: 1.7.2

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Precautionary statement – Disposal	P501 Dispose of contents/container according to local, state and federal regulations.				
3. Composition/ii	nformation on ingredie	nts			
Chemical Characterization	Solid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Selenium metal powder	7782-49-2	100 %		
4. First-aid meas					
Inhalation	If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not breathing is difficult, give oxygen. Consult a physician				
Ingestion	breathing. If breathing is difficult, give oxygen. Consult a physician. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek immediate medical advice.				
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If rapid recovery does not occur, obtain medical attention				
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention				
First Aid Facilities	Maintain eyewash fountain a				
Advice to Doctor	Treat symptomatically based				
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 m	easures				
Specific Methods	Use extinguishing media mos	st appropriate for	the surrounding fire	э.	
Specific hazards arising from the	Material does not burn. Fire of pollute waterways.	or heat will produc	e irritating, poison	ous and/or corrosive	gases. Runoff mag
chemical Hazchem Code	2X				
6. Accidental rele	ease measures				
Spills & Disposal	Avoid breathing dust and cor	ntact with skin and	l eyes.		
Personal Protection	Wear protective clothing spe	cified for normal o	perations (see Se	ction 8)	
Clean-up Methods - Small Spillages Environmental Precautions					
7. Handling and s	storage				
Conditions for safe storage, including	Keep containers closed at all in well ventilated area.	times. Store awa	ay from oxidizing a	gents. Store in a coo	I,dry place. Store
any incompatabilities					
8. Exposure cont	rols/personal protectio	n			
Other Exposure Information	These Workplace Exposure a hazards. All atmospheric cor workplace exposure standard	tamination should	d be kept to as low	a level as is workable	e. These
Appropriate	concentrations of chemicals. A time weighted average (TV hydrogen selenide (Worksafe airborne concentration of a p 5 day working week. Maintain the concentrations	They are not a m VA) has been esta e Aust) of 0.1 mg/ articular substance values below the	easure of relative t ablished for Seleniu m3. The exposure when calculated TWA. This may be	oxicity. Im compounds (as S value at the TWA is ti over a normal 8 hour achieved by process	e) excluding he average r working day for a
engineering controls Respiratory Protection	s of local exhaust ventilation, c Where ventilation is not adec or mists. Respiratory protecti selected in accordance with	quate, respiratory on should comply	protection may be with AS 1716 - Re	required. Avoid breat spiratory Protective [Devices and be



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Eve Protection	planned entry in respiratory prot fit testing, traini	capacity and respirator type depends on exponto onto unknown concentrations a positive pressu ection is required, institute a complete respirang, maintenance and inspection. ce shield, chemical goggles or safety glasses	ure, full-facepiece SCBA should be used. If atory protection program including selection,
Hand Protection	Must comply wi Wear gloves of Selection, use a circumstances. appropriate risk	th Australian Standards AS 1337 and be sele impervious material conforming to AS/NZS 2 and maintenance. Final choice of appropriate This can include methods of handling, and e assessments. Avoid skin contact when rem rface. Dispose of gloves as hazardous waste	ected and used in accordance with AS 1336. 161: Occupational protective gloves - e glove type will vary according to individual ngineering controls as determined by oving gloves from hands, do not touch the
Personal Protective Equipment	Personal protect when all other r Guidance in se	tive equipment should not solely be relied up easonably practicable control measures do n ecting personal protective equipment can be er approved standards.	oon to control risk and should only be used not eliminate or sufficiently minimise risk.
Body Protection	Clean impervio	us clothing should be worn. Clothing for proteing for Protection Against Hazardous Chemica	

9. Physical and chemical properties

Form	Solid
Appearance	Dark grey.
Odour	Odourless.
Melting Point	217°C
Boiling Point	685°C
Solubility in Water	Slightly soluble.
Density	4.79 g/cm3
Flammability	Non combustible material.
Molecular Weight	78.96

10. Stability and reactivity	10.	Stat	oility	and	rea	ctiv	/itv
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10. Stability and	reactivity
Reactivity	Risk of dust explosion.
Chemical Stability	Stable under normal conditions of use and storage.
Incompatible Materials	Strong oxidisers, strong acids, metal oxides, carbides, fluorine, oxygen and potassium.
Hazardous Decomposition	Selenium oxides.
Products	
Possibility of	Hazardous reaction with amides, alkali amides, alkali metals, alkaline earth metals, metals, bromates,
hazardous reactions	chlorates, phosphorus, platinum, salts of oxyhalogenic acids, oxygen, silver compounds, non metallic halides, acids, carbides, peroxi compounds, halogen-halogen compounds, halogen oxides, fluorine, lithium, silicide.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Oral LD50	(rat): 6700 mg/kg

Ingestion	Toxic if swallowed. May cause severe irritation to the mouth, throat and digestive tract. May cause liver, spleen, kidney damage and abnormalities. Gastrointestinal disturbances may be expected with nausea, abdominal pain and vomiting.
Inhalation	Toxic by inhalation. Severe irritant to the respiratory system. Symptoms are soreness, coughing and laboured breathing.
Skin	May cause severe irritation. Symptoms include redness, itching and pain.
Eye	May cause irritation, redness and pain.
STOT-repeated exposure Chronic Effects	Specidic Target Organ Toxicity - Repeated Exposure Category 2 H373 May cause damage to organs through prolonged or repeated exposure. Danger of cumulative effects. Prolonged or repeated skin contact may cause dermatitis. May cause



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reproductive and fetal effects. Chronic exposure to selenium may cause central nervous system effects, digestive tract disturbances, pallor and garlic breath.

12. Ecological information

Ecological Information	Hazardous to the Aquatic Environment - Long-Term Hazard: Category 4 H413 May cause long lasting harmful effects to aquatic life.	
13. Disposal considerations		
Disposal	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and	

Considerations Whatever cannot be saved for recovery or recycling should be handled as hazard disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport	Dangerous Goods of Class 6 Toxic and Infectious Substances are incompatible in a placard load with
Information	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.
U.N. Number	3283
UN proper shipping	SELENIUM COMPOUND, SOLID, N.O.S.
name Transport hazard class(es)	6.1
Hazchem Code	2X
Packing Group	III
IERG Number	34

15. Regulatory information

RegulatoryListed in the Australian Inventory of Chemical Substances (AICS). Not listed under WHS RegulationInformation2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.Poisons ScheduleS7

16. Other Information

Literature	Australian Health Ministers' Advisory Council, 'Standard for the Uniform Scheduling of Drugs and
References	Poisons No.16', AGPS, Canberra 2001.
	Lewis, Richard J. Sr.'Hawley's Condensed Chemical Dictionary 12th. Ed.', Rev., Van Nostrand Reinhold,
	NY, 1993.
	National Road Transport Commission, 'Australian Dangerous Goods Code 6th. Ed.', AGPS, Canberra, 1998.
	South Australia Government, 'Approved Code of Practice for the Labelling of Workplace Substances',
	1995.
	Standards Australia, 'Dangerous Goods - Initial Emergency Response Guide', 1997.
	Worksafe Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]', AGPS, Canberra 1999.
	Worksafe Australia, 'List of Designated Hazardous Substances [NOHSC:10005(1999)]', AGPS,
	Canberra 1999.
	Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Substances
	[NOHSC:2012(1994)]', AGPS, Canberra 1994.
	Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]', AusInfo Department of Finance and Administration, Canberra 1995.
Contact	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
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