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Infosafe No™

Issue Date : May 2018

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Product Name : QUARTZ Powder

1CHMX

Classified as hazardous				
1. Identification				
GHS Product	QUARTZ Powder			
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 Recommended use	Fax: (08) 8440-2001 Electronic components; piezoelectric control in filters, oscillators, frequency standards, wave filters, radio			
of the chemical and				
restrictions on use				
Other Names	Name Product Code			
	QUARTZ Powder >230 Mesh AR QA001 Silicon dioxide			
	Crystalline silica (quartz)			
Other Information	EMERGENCY CONTACT NUMBER: +61 08 8440 2000			
	Business hours: 8:30am to 5:00pm, Monday to Friday.			
	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 Identifi				
GHS classification	Specific target organ toxicity - Repeated Exposure, Inhalation Category 1			
of the				
substance/mixture Signal Word (s)	DANGER			
Hazard Statement	H373 May cause damage to organs (Lungs) through prolonged or repeated exposure if inhaled.			
(s)				
Pictogram (s)	Health hazard			
Precautionary statement –	P260 Do not breathe dust/fume/gas/mist/vapours/spray.			
Prevention				
Precautionary	P314 Get medical advice/attention if you feel unwell.			
statement –				
Response Precautionary	P501 Dispose of contents/container to an approved waste disposal plant.			
statement –	i son Dispose of contents/container to an approved waste disposal plant.			
Disposal				
3. Composition/i	nformation on ingredients			
Chemical Characterization	Solid			
Characterization Ingredients	Name CAS Proportion Hazard Symbol Risk Phrase			

14808-60-7

100 %

Quartz (crystalline silica)

 - /4	- 04 04	·	

Store at room temperature (15 to 24 °C recommended).

. . .

Wear SCBA and structural firefighter's uniform.

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

Temperatures 1.1

exposure.

Occupational exposure limit values	<u>Name</u>	STEL		TWA		
Values		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	ppm	Footnote
	Quartz (crystalline silica)			0.1		
Other Exposure	A time weighted average (TWA) has	s been estab	lished for C	Quartz [Silica	Crystalline] [14808-60-7] (Safe
Information	Work Australia) of 0.1 mg/m ³ . The e particular substance when calculate					
Appropriate	In industrial situations maintain the					
	process modification, use of local ex methods. These methods should be	xhaust ventil e used in pre	ation, captu ference to	uring substan personal prot	ces at the ective equi	source, or other pment.
Respiratory Protection	Where ventilation is not adequate, r or mists. Respiratory protection sho	espiratory p	rotection m	ay be require	d. Avoid br	eathing dust, vapours

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4. First-aid measures

Inhalation

Ingestion

Eye contact

First Aid Facilities Advice to Doctor

Other Information

Hazards from

Specific Methods

Clean-up Methods -**Small Spillages**

Conditions for safe

storage, including

incompatabilities

7. Handling and storage

Precautions in connection with Fire

Personal Precautions

Handling

any

Storage

Combustion Products

5. Fire-fighting measures

6. Accidental release measures

Skin

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Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice.

Maintain eyewash fountain and drench facilities in work area.

to form tridymite or cristobalite, which have greater health hazards.

do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

clearly labelled container for disposal in accordance with local regulations.

from incompatible materials. Store away from bases, halogens and water.

Precautions for Safe Avoid ingestion or inhalation of dust and aerosols. Avoid contact with eyes, skin, or clothing. Minimize

QUARTZ Powder

develops seek medical attention.

breathing is difficult.

766) or a doctor.

extinguishing media.

Classified as hazardous

and wash before reuse. Seek medical attention in severe cases, or if irritation develops.

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

Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of

Remove from exposure, rest and keep warm. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. Seek medical attention in severe cases, if symptoms develop, or if

Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed.

Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing

For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764

Toxic and/or irritating dust, including silicon oxides. At higher temperatures, can change crystal structure

Evacuate the area of all non-essential personnel. Avoid substance contact. Avoid generation of dusts:

Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable.

dust, accumulation and dispersion in the work atmosphere. Provide appropriate exhaust ventilation at

places where dust is formed. Maintain and test ventilation and dust collection equipment. Use only with adequate ventilation and dust collection. Wear suitable protective clothing to prevent inhalation and eye

Store in tightly closed, labelled, corrosion-resistant containers, in a cool, dry, well-ventilated area away

If contact with the eye(s) occur, wash with copious amounts of water for approximately 15 minutes holding eyelids(s) open. Take care not to rinse contaminated water into the non-effected eye. If irritation

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Eye Protection Hand Protection Personal Protective Equipment Body Protection Hygiene Measures	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. 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 should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. Recommendation: Vinyl gloves. The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors. Clean clothing or protective clothing should be worn. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals. 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	chemical properties
Form	Solid
Appearance	White or off-white to reddish tan, or grey powder.
Odour	Odourless.
Melting Point	1610 - 2000 °C.
Boiling Point	>2200 °C.
Solubility in Water	Immiscible or insoluble.
Solvents	Soluble in concentrated hydrofluoric acid, forming silicon tetrafluoride gas; soluble in hot potassium hydroxide and hot sodium hydroxide solutions; very slightly soluble in strong alkali; practically insoluble in acids; insoluble in ethanol.
Specific Gravity	2.65
Vapour Pressure	10 mm Hg @ 1732 °C. 0 %vol @ 21 °C
Volatile Component	Non combustible material.
Flammability Molecular Weight	60.09.
Particle Size	>230 mesh.
Other Information	Mohs hardness: 7. Piezoelectric and pyroelectric. Taste: Tasteless. Refractive Index: n20/D 1.544.
10. Stability and	reactivity
Chemical Stability	Stable under normal conditions of storage and handling.
Conditions to Avoid	Dust generation and incompatible materials.
Incompatible Materials	Strong alkalis, hydrofluoric acid, alkaline aqueous solutions, catechol, strong oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, oxygen difluoride, vinyl acetate and magnesium.

Materials	naomio, onomio internet, manganeto interneto, exygen anterneto, my acotato ana magnotiam
Hazardous	Toxic and/or irritating dust, including silicon oxides. At higher temperatures, can change crystal structure
Decomposition	to form tridymite or cristobalite, which have greater health hazards.

Products	
Possibility of	Quartz is attacked by hydrofluoric acid and produces a corrosive gas - silicon tetrafluoride. Slowly
hazardous reactions	attacked by heating with concentrated phosphoric acid. Combines with strong alkalies under suitable
	conditions to form silicates. Silica is attacked by catechol. Melts to glass at ordinary temperatures.
	Reacts with strong oxidants causing fire and explosion hazard. Can cause violent reaction in contact
	with oxygen difluoride, with vinyl acetate and magnesium.
Hazardous	Will not occur.

Polymerization

11. Toxicological Information

Ingestion

Ingestion of this product may cause irritation of the digestive tract, causing nausea and vomiting.



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Product Name :	QUARTZ Pov	vder	
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Inhalation	coughing. Affect pneumoconios	led. May cause cancer by inhalation. May cau cts respiration. Inhalation of silica dust may ca is from overwhelming exposure to silica dust l	ause pulmonary disease (silicosis). Acute has occurred. May also affect liver.
Skin	,	e mechanical skin irritation, resulting in redne	Ŭ
Eye	pain. May caus	e and may cause mechanical eye irritation, te e physical damage, including corneal scarring	g.
Carcinogenicity	evaluated in the	0-7], crystalline (inhaled in the form of quartz e IARC Monographs (Vol. 68; 1997) as Group	1: Carcinogenic to humans.
STOT-repeated exposure	H373 May caus	se damage to organs (Lungs) through prolong	ged or repeated exposure if inhaled.
Chronic Effects Mutagenicity	and lung injury, a continuous m decreased che stages, loss of cardiac failure more serious d occurred and n blood. Prolonge and dermatitis. Mutagenic effe Micronucleus te	olonged inhalation, or exposure to dust may a /fibrosis (silicosis, the formation of adhesions hass of fibrous tissue, characterized by a dry of st expansion, reduced lung function, increase appetite, pleuritic pain, and total incapacity to or destruction of lung tissue). The onset of sili egree even after exposure has ceased, or whe nay also lead to other diseases including hear ed or repeated contact with the skin in the abs cts have occurred in humans. est, Human Lung, Dose/Duration: 40 µg/cm ² , ice Pub. B.V., POB 211, 1000 AE Amsterdam	in the lungs progressing to the formation of cough, shortness of breath, emphysema, ed susceptibility to tuberculosis, in advanced o work and in severe cases, death due to icosis is usually slow and can develop to a nen no symptoms or signs of ill-health have rt disease and scleroderma. May also affect sence of proper hygiene, may cause dryness Reference: MUREAV Mutation Research.
	Volume(issue)/ Mutagenic effer Micronucleus te Research. (Els Volume(issue)/	page/year: 335,27,1995. cts have been observed on tests with laborato est, Rodent - hamster Lung, Dose/Duration: 1 evier Science Pub. B.V., POB 211, 1000 AE A page/year: 335,27,1995.	ory animals. 60 μg/cm², Reference: MUREAV Mutation
12. Ecological in Ecological		problems are to be expected when the produc	t is handled and used with due care and
Information Ecotoxicity	attention.	ta on the ecological effect of this product are	
13. Disposal cor	nsiderations		
Disposal Considerations		not be saved for recovery or recycling should b cording to relevant local, state and federal gov	
14. Transport inf			
Transport Information	Not classified a Goods by Road	as a Dangerous Good according to the Austra d and Rail.	lian Code for the Transport of Dangerous
15. Regulatory in			
Regulatory Information		ustralian Inventory of Chemical Substances (A	AICS).
Poisons Schedule	Not Scheduled		
National and or International Regulatory Information	NICNAS: Cryst	alline silica: Human health tier II assessment	
16. Other Inform			
Literature References	Lewis, Richard Inc., NY, 1997.	Transport Commission, 'Australian Code for the	nary 13th. Ed.', Rev., John Wiley and Sons,

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	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]'.
Contact	Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:
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