



Infosafe No™	1CHIG	Issue Date : May 2020	RE-ISSUED by CHEMSUPP
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Product Name : **BENTONITE**

Classified as hazardous

1. Identification

GHS Product Identifier	BENTONITE	
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	
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)	
Recommended use of the chemical and restrictions on use	Wine and vinegar clarification, suspending agent, base for plasters, cosmetics, bonding agent in foundry sands and pelletising of iron ores, sealant for canal walls, filler in ceramics, refractories, paper coatings, cement slurries for oil-well casings, oil-well drilling fluid, catalyst support, polishes, abrasives, food additive, asphalt modifier, thickener in lubricating greases and fire proofing compositions, decolorising agent and emulsifier for oils.	
Other Names	Name	Product Code
	BENTONITE Powder TG Montmorillonite, Sodium bentonite, Wilkinite, Volclay	BT037
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	Carcinogenicity: Category 1 Specific Target Organ Toxicity - Single Exposure: Category 1
Signal Word (s)	DANGER
Hazard Statement (s)	H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure.
Pictogram (s)	Health hazard



Precautionary statement – Prevention	P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P270 Do not eat, drink or smoke when using this product. P281 Use personal protective equipment as required.
Precautionary statement – Response	P308+P313 IF exposed or concerned: Get medical advice/attention. P314 Get medical advice/attention if you feel unwell.
Precautionary statement – Storage	P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients



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Chemical Characterization Information on Composition Ingredients	Solid A colloidal clay (aluminium silicate) composed chiefly of montmorillonite. This product contains trace levels (<0.1%) of a potential carcinogen.										
Ingredients	<table border="1"> <thead> <tr> <th><u>Name</u></th> <th><u>CAS</u></th> <th><u>Proportion</u></th> <th><u>Hazard Symbol</u></th> <th><u>Risk Phrase</u></th> </tr> </thead> <tbody> <tr> <td>Bentonite</td> <td>1302-78-9</td> <td>100 %</td> <td></td> <td></td> </tr> </tbody> </table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>	Bentonite	1302-78-9	100 %		
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Bentonite	1302-78-9	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. Get medical aid if cough or other symptoms appear.
Ingestion	Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. Give water to drink. DO NOT INDUCE VOMITING. Seek medical advice if symptoms persist. Do NOT give water if large amount ingested - product will expand when wetted and may cause blockage.
Skin	Wash affected areas with copious quantities of water and soap. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If persistent irritation occurs, obtain medical attention.
First Aid Facilities	Maintain eyewash fountain and safety shower in work area.
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 at once.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes including aluminium oxide and silicon oxides.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.
Specific hazards arising from the chemical	The product is not flammable.
Precautions in connection with Fire	Wear SCBA and structural firefighter's uniform.

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. Avoid inhalation, contact with skin, eyes and clothing. Material can be slippery when wet. Forms smooth, slippery surfaces on floors posing a accident risk.
Personal Protection	Wear protective clothing specified for normal operations (see Section 8)
Clean-up Methods - Small Spillages	Sweep up (avoid generating dust, can be moistened with water) and remove to a suitable, clearly labelled container for disposal in accordance with local regulations.

7. Handling and storage

Precautions for Safe Handling	Avoid generation or accumulation of dusts. Avoid prolonged or repeated contact with skin and eyes. Use in well ventilated areas away from all ignition sources. Wash hands and face thoroughly after working with material.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry place. Keep containers closed at all times.

8. Exposure controls/personal protection

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>	
	Bentonite			0.1		



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Other Exposure Information	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. A time weighted average (TWA) has been established for Crystalline silica quartz (Safe Work Australia) of 0.1 mg/m ³ . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts (inherently low toxicity and free from toxic impurities) not otherwise specified is 10 mg/m ³ , measured as inspirable dust.
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.
Footwear	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
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

Form	Solid
Appearance	Beige powder or granules.
Odour	Odourless.
Solubility in Water	Slightly soluble in cold water and hot water.
Solubility in Organic Solvents	Insoluble in methanol, diethyl ether, n-octanol and acetone.
Specific Gravity	2.5 (water = 1)
pH	6 - 9
Flammability	Combustible. Not flammable under conditions of use but will burn at elevated temperatures. Product when mixed with air can explode in the presence of an appropriate ignition source.
Molecular Weight	180.06
Other Information	Forms highly viscous suspensions or gels with not less than ten times its weight of water. The property of forming gels is very much increased by the addition of small amounts of alkaline substance, such as magnesium oxide. High swelling capacity in water.

10. Stability and reactivity

Chemical Stability	Stable under normal conditions of temperature and pressure.
Conditions to Avoid	Incompatibles.
Incompatible Materials	Strong acids.



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Hazardous Decomposition Products May liberate toxic fumes including aluminium oxide and silicon oxides.**Hazardous Polymerization** Will not occur.**11. Toxicological Information****Ingestion** May be harmful if swallowed.**Inhalation** May cause shortness of breath, irritation, asthma, lung irritation and reduced pulmonary function.**Skin** May cause irritation.**Eye** May cause redness, tearing, blurred vision and irritation.**Respiratory sensitisation** Not classified based on available information.**Skin Sensitisation** Not classified based on available information.**Germ cell mutagenicity** Not classified based on available information.

Carcinogenicity Carcinogenicity: Category 1
 H350 May cause cancer.
 Silica [14808-60-7] is evaluated in the IARC Monographs as Group 1: Carcinogenic to humans.
 Group 1: The agent is carcinogenic to humans.
 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.
 Not classified based on available information.

Reproductive Toxicity**STOT-single exposure** Specific Target Organ Toxicity - Single Exposure: Category 1
H372 Causes damage to organs through prolonged or repeated exposure.**STOT-repeated exposure** Not classified based on available information.**Chronic Effects** Repeated or prolonged exposure uncontrolled inhalation of dust may cause lung disease, silicosis, with symptoms of shortness of breath and reduced pulmonary functions. Repeated or prolonged skin contact may cause chronic dermatitis. Crystalline silica impurity may cause delayed respiratory disease if inhaled over a prolonged period of time.**Mutagenicity** No evidence of mutagenic properties.**Other Information** Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Inhalation of dust may have cause serious chronic health effects including of Silicosis and lung cancer. The small quantities of quartz found in this product are, under normal conditions, naturally coated with a layer of amorphous silica and/or bentonite clay. IARC (vol 68, 1997, pg 191-192) has stated that quartz can differ in toxicity depending on the minerals with which it is combined, citing studies in IARC (vol 42, 1987, pg 86) which state that the toxic effect of quartz is reduced by the 'protective effect...due mainly to clay minerals.'**12. Ecological information****Ecotoxicity** No ecological data available for this product.**Bioaccumulative Potential** Not expected.**13. Disposal considerations****Disposal Considerations** Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.**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.**15. Regulatory information**



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Regulatory Information	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	<p>'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 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]'.</p>
Contact Person/Point	<p>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.</p>
Empirical Formula & Structural Formula	<p>H2 Al2 O6 Si ...End Of MSDS...</p>

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