



Infosafe No™	1CH1P	Issue Date : January 2019	RE-ISSUED by CHEMSUPP
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Product Name : **CALCIUM SULFATE**

Not classified as hazardous

1. Identification

GHS Product Identifier	CALCIUM SULFATE		
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 Fax: (08) 8440-2001		
Emergency phone number	CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)		
Recommended use of the chemical and restrictions on use	Portland-cement retarder; soil treatment; metallurgy; manufacture of Plaster of paris, paint (filler, glaze), white pigment in paints, enamels, pharmaceuticals and paper; manufacture of sulfuric acid, ammonium sulfate, CaC ₂ and porous polymers; surgical plaster casts; polishing powders; dyeing and calico printing; insecticide dusts; drying industrial gases, solids and many organic liquids; yeast manufacture; water treatment; food additive; analytical reagent and laboratory reagent.		
Other Names	Name	Product Code	
	CALCIUM SULFATE Hemihydrate TG	CT018	
	Plaster of paris, Gypsum		
	CALCIUM SULFATE Dihydrate AR	CA017	
	CALCIUM SULFATE Dihydrate LR	CL017	
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	Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.
Other Information	Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG). WARNING - DO NOT attempt to make an enclosed cast of any body parts such as hands or fingers. This product gives off heat when mixed with water for setting, which may result in serious skin burns if used for casting body parts. If this product is repackaged by distributors, this warning must be repeated on any new packaging. (hemihydrate)

3. Composition/information on ingredients

Chemical Characterization	Solid				
Ingredients	Name	CAS	Proportion	Hazard Symbol	Risk Phrase
	Calcium sulfate hemihydrate	10034-76-1	98-100 %		
	Calcium sulfate dihydrate	10101-41-4	98-100 %		

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. DO NOT INDUCE VOMITING. Seek medical advice if effects persist.
Skin	Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist.
Advice to Doctor	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
Other Information	For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.



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5. Fire-fighting measures**Specific Methods** Use extinguishing media most appropriate for the surrounding fire.**Specific hazards arising from the chemical** Fire will produce toxic gases. Runoff may pollute waterways.**Precautions in connection with Fire** Use protective clothing and equipment suitable for surrounding fire.**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.**Personal Protection** Wear protective clothing specified for normal operations (see Section 8)**Clean-up Methods - Small Spillages** Sweep up (avoid generating dust) 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, eyes and clothing. 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. Store away from incompatible substances.**8. Exposure controls/personal protection****Other Exposure Information** A time weighted average (TWA) has been established for Calcium sulfate anhydrous (Worksafe Aust) of 10 mg/m³. This value is for inspirable dust containing no asbestos and less than 1% crystalline silica. See Chapter 14: Guidance Note on the Interpretation of Exposure Standards for Atmospheric Contaminants in the Occupational Environment, published by Worksafe Australia. 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.**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** 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.**Personal Protective Equipment** 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.**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** White powder, crystals or granules.



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Odour	Odourless.
Melting Point	1450 °C
Boiling Point	Loses 1.5 waters at 128 °C. Becomes anhydrous at 163 °C.
Solubility in Water	Slightly soluble in water (0.8 g/L @ 20 °C, hemihydrate); Slightly soluble (2 g/L @ 20 °C, dihydrate); Slightly soluble (2 g/L @ 25 °C, anhydrous).
Solubility in Organic Solvents	Soluble in ammonium salts, acids, glycerin and sodium thiosulfate. Very slowly soluble in glycerol. Practically insoluble in most organic solvents.
Specific Gravity	2.96 g/cm ³ (anhydrous, hemihydrate); 2.32 g/cm ³ (dihydrate).
pH	5.0-7.5 (0.01 M, H ₂ O, 25 °C); ~ 7.0 (200 g/l, H ₂ O, 20 °C, slurry, hemihydrate); pH value of 20% aqueous suspensions is 6 to 7.6.
Volatile Component	Zero.
Flammability	Non combustible material.
Molecular Weight	172.17
Other Information	Taste: Tasteless Refraction index: 1.505

10. Stability and reactivity

Chemical Stability	Stable.
Conditions to Avoid	Incompatibles. Moisture.
Incompatible Materials	Aluminum, diazomethane and phosphorous. Water, acids, aluminium, strong oxidizing agents, diazomethane and phosphorous.
Hazardous Decomposition Products	Sulfur oxides.
Possibility of hazardous reactions	Reduction of calcium sulfate by aluminum at high temperature may cause violent explosion. Diazomethane vapour contacting calcium sulfate generates heat which can lead to detonation.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Ingestion	In the presence of water (or moisture), the material hardens quickly, which may result in obstruction in stomach. Symptoms include stomach pain and distress.
Inhalation	Causes irritation to mucous membrane and respiratory tract. Symptoms may include of coughing sneezing, shortness of breath.
Skin	If absorbed through skin, may cause irritation, redness and pain.
Eye	May cause irritation, redness and pain.
Carcinogenicity	No evidence of carcinogenic properties.
Chronic Effects	Long-term exposures to high concentrations of dust may cause increased mucous flow in the nose and airways. This condition usually disappears after exposure ceases. Repeated or prolonged exposure to massive concentrations of dust may cause lung injury by obstruction as well as impaired sense of smell and taste and bleeding nose.
Mutagenicity	No evidence of mutagenic properties.
Other Information	WARNING - DO NOT attempt to make an enclosed cast of any body parts such as hands or fingers. This product when mixed with water releases heat, which may result in serious skin burns if used for casting body parts. If this product is repackaged by distributors, this warning must be repeated on any new packaging. (Hemihydrate)

12. Ecological information

Ecotoxicity	No ecological data available for this product.
Persistence and degradability	No persistence/degradability data available for this product.
Mobility	No mobility data available for this product.

13. Disposal considerations

Disposal Considerations	Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and disposed of according to relevant local, state and federal government regulations.
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Waste Disposal Disposal by secure landfill may be acceptable.**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 (ADG); by the IATA Air Transport Dangerous Goods Regulations; or by the IMDG (International Maritime Dangerous Goods) Code.
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15. Regulatory information

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	Not Scheduled

16. Other Information

Literature References	'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]'. 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.
Contact Person/Point	
Empirical Formula & Structural Formula	CaSO4.2H2O ...End Of MSDS...

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