

Infosafe No™ 1CHKY Issue Date : December 2020 RE-ISSUED by CHEMSUPP

Product Name **CADMIUM SULFATE 8/3 Hydrate**

Classified as hazardous

1. Identification

GHS Product Identifier CADMIUM SULFATE 8/3 Hydrate

Company Name CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211)

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Recommended use of the chemical and restrictions on use Pigments, fluorescent screens, electrolyte in Weston standard cell, electroplating, photography, manufacture of phosphorus and laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	CADMIUM SULFATE 8/3-Hydrate AR	CA249

Other Information

ChemSupply Australia 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 ChemSupply Australia 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 ChemSupply Australia 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 Hazardous to the Aquatic Environment - Acute Hazard: Category 1
Hazardous to the Aquatic Environment - Long-Term Hazard: Category 1
Carcinogenicity: Category 1B
Germ Cell Mutagenicity: Category 1B
Acute Toxicity - Inhalation: Category 1
Acute Toxicity - Oral: Category 3
Specific target organ toxicity - Repeated Exposure Category 1
Toxic to Reproduction: Category 1B
Acute Toxicity - Dermal: Category 4

Signal Word (s) DANGER

Hazard Statement (s) H301 Toxic if swallowed.
H312 Harmful in contact with skin.
H330 Fatal if inhaled.
H340 May cause genetic defects.
H350 May cause cancer.
H360 May damage fertility or the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Pictogram (s) Skull and crossbones, Health hazard, Environment



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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. P264 Wash 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. P281 Use personal protective equipment as required. P284 Wear respiratory protection.
Precautionary statement – Response	P301+P310 IF SWALLOWED: Immediately 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 position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P308+P313 IF exposed or concerned: Get medical advice/attention.
Precautionary statement – Storage	P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Cadmium sulfate hydrate	7790-84-3	100 %

4. First-aid measures

Inhalation	If inhaled, remove from contaminated area to fresh air immediately, avoid becoming a casualty. Make patient comfortable, keep warm and at rest until fully recovered. If breathing is difficult (or develops a bluish skin discoloration), supply oxygen by a qualified person. Apply artificial respiration with a respiratory medical device if not breathing. Do not use mouth to mouth resuscitation. Immediately medical attention is required.
Ingestion	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. Seek medical attention.
Eye contact	Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. In all cases of eye contamination it is a sensible precaution to seek medical advice.
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.

5. Fire-fighting measures

Hazards from Combustion Products	May liberate toxic fumes in fire such as oxides of sulfur and cadmium.
Specific Methods	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Small fire: Use dry chemical, CO2 or water spray. If safe to do so, move undamaged containers from fire area. Large fire: Use dry chemical, CO2, foam or water spray - Do not use water jets.
Hazchem Code	2X

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Precautions in connection with Fire Wear SCBA and chemical splash suit. Fully-encapsulating, gas-tight suits should be worn for maximum protection. Structural firefighter's uniform is NOT effective for these materials.

6. Accidental release measures

Personal Precautions Evacuate the area of all non-essential personnel. 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 using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.

Environmental Precautions Prevent contamination of soil and water. Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

7. Handling and storage

Precautions for Safe Handling Avoid substance contact and generation and inhalation of dust. Use local exhaust extraction. Avoid exposure - obtain special instructions before use.

Conditions for safe storage, including any incompatibilities Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C). Keep locked up

Storage Regulations Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

8. Exposure controls/personal protection

Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m ³	ppm	mg/m ³	ppm	
	Cadmium sulfate hydrate			0.01		
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 Cadmium and compounds (as Cd) [7440-43-9] (Safe Work Australia) of 0.01 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.					
Appropriate engineering controls	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.					
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. Recommendation: Plastic or rubber gloves. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.					
Personal Protective Equipment	Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken.					

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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	Colourless crystals or white solid.
Odour	Odourless.
Melting Point	41.5 °C
Solubility in Water	Very soluble.
Solubility in Organic Solvents	Insoluble in alcohol. Almost insoluble in ethyl acetate.
Specific Gravity	3.1
pH	pH 3 - 6 (5% solution)
Flammability	Non combustible material.
Molecular Weight	256.52

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. Store at room temperature (15 - 25 °C).
Incompatible Materials	Strong oxidising agents, and metals (Aluminium and magnesium).
Hazardous Decomposition Products	Oxides of sulfur and cadmium.
Possibility of hazardous reactions	Violent reaction with aluminium and magnesium.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	Pregnant women must not be exposed to this product.
Acute Toxicity - Oral	LD50 (rat): 107 mg/kg.
Ingestion	Toxic if swallowed. May cause gastrointestinal irritation, nausea, salivation, vomiting, diarrhea and abdominal pain. Causes damage to the liver and kidneys. Ingestion usually induces a strong emetic action which minimises the risk of fatal poisoning. After absorption, symptoms may include changes in the blood picture and spasms.
Inhalation	May cause cancer by inhalation. Symptoms coughing and dyspnoea. After a latency period symptoms include pulmonary oedema with fever. Fatal concentrations may be breathed without sufficient discomfort to warn to exposed person. Long-term exposure to the chemical results in toxic effect on kidneys, lungs and bones. The following applies to cadmium compounds in general: mucosal irritations, coughing and dyspnoea after inhalation. Inhalation may lead to the formation of oedemas in the respiratory tract. There is a toxic effect on the gastrointestinal tract.
Skin	Harmful in contact the skin.

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Eye	May cause irritation.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Germ Cell Mutagenicity: Category 1B H340 May cause genetic defects.
Carcinogenicity	Cadmium [7440-43-9] and cadmium compounds (NB: Evaluated as a group) are evaluated in the IARC Monographs (Vol. 58; 1993) as Group 1: Carcinogenic to humans. Carcinogenicity: Category 1B H350 May cause cancer.
Reproductive Toxicity	Toxic to Reproduction: Category 1B H360 May damage fertility or the unborn child.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Specific target organ toxicity - Repeated Exposure Category 1 H372 Causes damage to organs through prolonged or repeated exposure.
Chronic Effects	Acute inhalation exposure to cadmium fumes may cause 'metal fume fever' with flu-like symptoms of weakness, fever, headache, chills, nausea, vomiting, dizziness, sweating, muscular pain, cough and difficulty breathing. Acute pulmonary oedema may develop with 24 hours and reaches a maximum by three days. The first chronic effect of exposure to cadmium is generally kidney damage, manifested by excretion of excessive protein in the urine, followed by anemia, teeth discoloration, and loss of smell. Cadmium also is believed to cause pulmonary emphysema and bone disease.
Serious eye damage/irritation	Not classified based on available information.
Skin corrosion/irritation	Not classified based on available information.

12. Ecological information

Ecotoxicity	Highly toxic for aquatic organisms. Hazard for drinking water supplies.
Other Adverse Effects	The following applies to cadmium compounds in general: Hazard for drinking water.
Information on Ecological Effects	May cause long-term adverse effects in the aquatic environment.
Known Harmful Effects on the Environment	Very toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.
Environmental Protection	Do not allow to enter waters, waste water, or soil!

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.
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14. Transport information

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.
U.N. Number	2570
UN proper shipping name	CADMIUM COMPOUND - Cadmium sulfate hydrate
Transport hazard class(es)	6.1

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Hazchem Code	2X
Packing Group	III
EPG Number	6B5
IERG Number	37
IMDG Marine pollutant	Yes
Environmental Hazards	Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

15. Regulatory information

Regulatory Information	All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Poisons Schedule	S6
Other Information	Worksafe Aust. classification: Carc. Cat.2; R45 Muta. Cat. 2; R46 Repr. Cat 2; R60-61 T; R48/23/25 T+; R26 T; R25 N; R50-53

16. Other Information

Literature References	'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia. National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.'. Safe Work Australia, 'National Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals'. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand. Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances'. Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational Environment'.
Contact Person/Point	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. ChemSupply Australia Pty Ltd 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.
Empirical Formula & Structural Formula	Cd•H2O4S•8/3H2O ...End Of MSDS...

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