

Safety Data Sheet

Crystal Dishwasher Powder Mountain Cleaning Products

Issue Date: July 2017

Valid to: July 2022



SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

Trade Name:	Crystal Dishwasher Powder
Synonyms:	NA
Chemical Formula:	NA
CAS Number:	NA
Product Uses:	Machine dishwashing. Contains rinse aid.
Supplier/Manufacturer:	Mountain Cleaning Products
Address:	7/7/ Snow St, South Lismore, NSW 2480
Telephone:	02 6622 8733
Fax:	02 6622 8744
Email:	support@mountaincleaning.com.au
Website:	www.mountaincleaning.com.au
Emergency Telephone:	13 11 26 (Poisons Information Centre)

SECTION 2: HAZARD(S) IDENTIFICATION

GHS Classification:	Product as sold	Product at USE DILUTION
	Skin corrosion (Category 1B) Single target organ toxicity (Category 3)	Non-hazardous.

LABELLING ELEMENTS:

	Product as sold	Product at USE DILUTION
Signal Word:	Danger	None allocated.
Pictogram(s):	  Corrosive Health hazards	Non-hazardous.
Hazard Statements(s)	H314 Causes severe skin burns and eye damage. H335 May cause respiratory irritation.	None allocated.
Precautionary Statement(s):	Prevention P260 Do not breathe dusts.	None allocated.

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	<p>P264 Wash hands thoroughly after handling. P271 Use only in a well ventilated area. P273 Avoid release to the environment (if not intended use). P280 Wear protective gloves.</p> <p>Response P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower. P363 Wash contaminated clothing before reuse. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTRE (13 11 26) or doctor. P321 Specific treatment, see First Aid Measures on this Safety Data Sheet.</p>	
Storage:	<p>P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.</p>	None allocated.
Disposal:	<p>P501 Dispose of contents/container to an approved waste disposal plant.</p>	None allocated.

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

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Ingredients	CAS No.s	Percentage (w/w)	Classification
Sodium metasilicate pentahydrate	10213-79-3	20-40%	H314 + H335
Sodium carbonate	497-19-8	20-40%	H319
Sodium percarbonate	16630-89-4	< 10%	H272 + H302 + H318
Other ingredients determined to be non hazardous or below concentration cut offs		< 30%	

SECTION 4: FIRST AID MEASURES

First Aid Facilities:	Normal washroom facilities.
Eye Contact:	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Avoid rinse water entering uncontaminated eye. Seek medical advice (e.g. ophthalmologist) if there are ongoing symptoms.
Skin Contact:	Remove contaminated clothing. Wash affected skin with plenty of water. Seek medical advice if irritation, burning or redness develops.
Inhalation:	Remove victim to fresh air away from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position, keep warm and at rest. If breathing laboured and patient cyanotic (blue), ensure airways are clear and have qualified person give oxygen through a facemask. Seek medical attention.
Ingestion:	Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. If conscious, rinse mouth thoroughly with water and give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice.
Advice to Doctor:	No specific antidote. Treat symptomatically for chemical burns. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.

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Scheduled Poisons:	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. Phone Australia 13 11 26.
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SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazard:	Non-combustible. However, if involved in a fire, will emit toxic fumes.
Extinguishing Media:	Use fine water spray, normal foam or dry agent extinguisher (carbon dioxide or dry chemical powder).
Fire Fighting:	Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire.
Flash Point:	None.
Hazchem Code:	2X.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Minor Spills:	Collect spills, avoiding generation of dust. Rinse area with water.
Major Spills:	For example transport accident or bulk spill. Clear area of unprotected personnel. Work up wind or increase ventilation. Prevent spillage from entering drains or watercourses. Wear appropriate protective equipment (see section 8) to prevent skin and eye contamination. Spilt material should be shovelled up and placed into suitable containers, appropriately labeled, for disposal by an approved agent according to local conditions. Spillage area may remain slippery. Flush spill area with excess water. Consider neutralisation with acid if required. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services.
PPE:	Personal protective equipment advice is contained in Section 8 of this document.

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SECTION 7: HANDLING AND STORAGE

Handling:	Avoid skin and eye contact. Do not eat, drink or smoke when handling product. Keep out of reach of children. Always wash hands with water after handling.
Storage:	Store in a cool, dry, place with good ventilation. Avoid storing in aluminium and light alloy containers. Store away from incompatible materials (see Section 10). Keep containers closed at all times when not in use. Check regularly for leaks or damage.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: None established for this product. However the exposure standard for dust, not otherwise specified is 10mg/m³ (inspirable dust) and 3mg/m³ (respirable dust).

Ingredient	TWA	STEL	DNEL

	Product as sold	Product at USE DILUTION
Personal Protection:	Use good occupational work practice. The use of protective clothing depends on the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling, engineering controls and according to risk assessments. Safety glasses and gloves should be available.	None required.
Engineering Controls:	Ensure ventilation is adequate. Avoid generating dust. Ensure airflow is directed away from operators.	None required.
Eye and Face Protection:	Chemical goggles or safety glasses to handle in quantity.	None required.

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Hand and Skin Protection:	Not required for normal use conditions but PVC or rubber gloves should be available. When using large quantities or where heavy contamination is likely, wear impervious PVC or rubber gloves to dispense. When using large quantities or where heavy contamination is likely, wear coveralls and footwear that provides protection against acids/alkalis.	None required.
Inhalation Protection:	Not normally required under normal use conditions. Where a dust inhalation risk exists wear a filter/apparatus that meets AS/NZS 1715 and AS/NZS 1716. For emergencies, including instances where exposure levels are not known, use full-face positive pressure air-supplied respirator.	None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White crystalline powder		
Odour:	Faint	Vapour Pressure:	Not available
Odour Threshold:	Not available	Relative Vapour Density:	Not available
pH:	12.0-13.0 at 1% solution	Relative Density (Water=1):	Not available
Melting Point:	Not available	Water Solubility:	Miscible in all portions
Boiling Point:	Not available	Partition Coefficient n-Octanol/Water	Not available
Flash Point:	Not available	Auto-ignition Temperature	Not available
Evaporation Rate:	Not available	Decomposition	Not available

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		Temperature	
Flammability:	Not flammable	Viscosity	Not available
Upper/Lower Flammability:	Not available		

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Reacts violently with acids yielding heat and pressure that can burst a closed container. Reacts slowly with air, absorbing carbon dioxide, which may cause insoluble salts to form in solutions of the product.
Chemical Stability:	Stable under normal conditions of storage and handling. Contamination of product and exposure to heat and light will accelerate decomposition.
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Avoid contact with incompatible materials and storage in metal containers.
Incompatible Materials:	Acids, amines, ammonium salts, aziridine, methanol and phenyl acetonitrile. Reacts with metal salts and reducing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhaled:	Corrosive. Breathing in dusts may result in sore throat, cough, shortness of breath and irritation in the respiratory tract. Inhalation of granules will result in respiratory irritation and possibly harmful corrosive effects including pulmonary oedema, lesions of the nasal septum, pneumonitis and emphysema.
Skin Contact:	Corrosive to skin. May cause skin burns.
Eye Contact:	Corrosive to eyes. Contact can cause corneal burns with possible risk of serious damage to eyes.
Ingestion:	Corrosive. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain, convulsions, chemical burns, lost consciousness and possible death. Ingestion of dry or liquid formulations containing 10% or higher concentration of the product can result in serious health problems.
Acute Toxicity:	Not toxic by calculation. No LD50 data available for this product.

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	<p>For active constituent, sodium carbonate (at 100%): Oral LD50 (rat) - 4090mg/kg</p> <p>For active constituent, sodium metasilicate pentahydrate (at 100%): Oral LD50 (rat) - 847mg/kg</p> <p>For active constituent, sodium percarbonate (at 88%): Oral LD50 (rat) - 1034mg/kg</p>
Chronic:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	<p>Product as sold: Acute aquatic toxicity (Category 3). Harmful to aquatic life.</p> <p>Product at USE DILUTION: Not toxic by calculation.</p> <p>Avoid contaminating waterways. The product is alkaline. If large spills occur into waterways and are not neutralised, a water pH rise could be responsible for an environmental effect on aquatic organisms (pH > 9 can have an effect on fish, with possible fish death and pH > 8.5 can be destroying for algae).</p> <p>No LC50 data available for this product. For active constituent, sodium carbonate (at 100%): LC50 (Pimephales promelas (fathead minnow)) – 400mg/litre.</p> <p>For active constituent, sodium metasilicate pentahydrate (at 100%): LC50 (Gambusia affinis) – 2320mg/litre - 96 h.</p> <p>For active constituent, sodium tripolyphosphate (at >94%): EC50 (bacteria) > 1000mg/litre – 48h.</p> <p>For active constituent, sodium percarbonate (at 88%): LC50 (Pimephales promelas (fathead minnow)) – 70.7mg/litre - 96 h.</p> <p>For minor constituent, alkoxylated alcohol (at >60%): LC50 (fish) – 0.65-1.05 mg/litre – 96h.</p>
Persistence and Degradability:	Individual components stated to be biodegradable.
Bioaccumulative Potential:	Bioaccumulation is not expected.
Mobility in Soil:	Not known.
Other Adverse Affects:	None known.

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SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:	Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Decontamination and destruction of containers should be considered.
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SECTION 14: TRANSPORT INFORMATION

ADG Code Classification:	Dangerous Goods.
UN No.:	1759
Proper Shipping Name:	CORROSIVE SOLIDS, N.O.S.
Transport Hazard Class:	8 – Corrosive 
Packing Group:	III
Hazchem Code:	2X
Environmental Hazards for Transport:	Aquatic toxicity.

SECTION 15: REGULATORY INFORMATION

SUSMP (Poison Schedule):	S6 Poison
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SECTION 16: OTHER INFORMATION

Acronyms:	ADG – Australian Code for the Transport of Dangerous Goods by Road and Rail. AICS – Australian Inventory of Chemical Substances. CAS No. – Chemical Abstract Service Number used to uniquely identify chemical compounds. GHS – Globally Harmonised System. HAZCHEM – An emergency action code that gives information
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	<p>to emergency services during transport emergencies. IARC – International Agency for Research on Cancer. LD50 – Lethal Dose, 50%/median Lethal Dose. Mg/m³ – Milligrams per cubic metre. PPM – Parts per million. STEL – Short Term Exposure Limit. STOT – SE/RE – Specific Target Organ Toxicity (single/repeated exposure). SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons. TWA/OEL – Time Weighted Average or Occupational Exposure limit.</p>
Literature References:	<p>Australian Code For The Transport Of Dangerous Goods By Road And Rail – 7th Edition. Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice. December 2011 – Safe Work Australia. GHS Hazardous Chemical Information List - September 2014 – Safe Work Australia. Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012 - Safe Work Australia. Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition. List of Designated Hazardous Substances [NOHSC: 10005(1999)] Standard for the Uniform Scheduling of Medicines and Poisons. June 2016. Material Safety Data Sheets for individual raw materials – all suppliers. Approved Criteria for Classifying Hazardous Substances [NOHSC: 1008(1999)].</p>
Revision History:	Rev 1.1 Addition of At-Use Dilution data.
Prepared By:	Mountain Cleaning Products Regulatory Service.

END OF SDS