

Safety Data Sheet

Crystal Dishwasher Liquid Mountain Cleaning Products

Issue Date: July 2017
Valid to: July 2022


SECTION 1: IDENTIFICATION OF PRODUCT AND COMPANY

Trade Name:	Crystal Dishwasher Liquid
Synonyms:	NA
Chemical Formula:	NA
CAS Number:	NA
Product Uses:	Ware washing, degreasing and sanitising in dishwasher
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
	Corrosive to metals (Category 1). Skin corrosion (Sub-category 1A).	Non-hazardous.

LABELLING ELEMENTS:

	Product as sold	Product at USE DILUTION
Signal Word:	Danger	None allocated.
Pictogram(s):	 Corrosive	Non-hazardous.
Hazard Statements(s)	H290 May be corrosive to metals. H314 Causes severe skin burns and eye damage.	None allocated.
Precautionary Statement(s):	Prevention P234 Keep only in original container. P260 Do not breathe fumes.	None allocated.

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	<p>P264 Wash hands thoroughly after handling.</p> <p>P273 Avoid release to the environment unless this is the intended use.</p> <p>P280 Wear protective gloves / eye protection.</p> <p>Response</p> <p>P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P303 + P361 + P353 IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water/shower.</p> <p>P363 Wash contaminated clothing before reuse.</p> <p>P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTRE (13 11 26) or doctor.</p> <p>P321 Specific treatment, see First Aid Measures on this Safety Data Sheet.</p> <p>P390: Absorb spillage to prevent material damage.</p>	
Storage:	<p>P405 Store locked up.</p> <p>P406: Store in corrosive resistant container.</p>	None allocated.
Disposal:	P501 Dispose of contents/container to an approved waste disposal plant.	None allocated.

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SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients	CAS No.s	Percentage (w/w)	Classification
Water	7732-18-5	>60%	
Sodium hypochlorite	7681-52-9	<5%	H290 + H314 + H401
Potassium hydroxide	1310-58-3	<10%	H290 + H314
Sodium metasilicate pentahydrate	10213-79-3	< 5%	Below concentration cut off
Other ingredients determined to be non hazardous or below concentration cut offs		< 10%	

SECTION 4: FIRST AID MEASURES

First Aid Facilities:	Normal washroom facilities. Safety shower and emergency eye wash.
Eye Contact:	Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist) if there are ongoing symptoms.
Skin Contact:	Remove contaminated clothing. Immediately wash contaminated skin with plenty of soap and water. Seek medical advice if irritation, burning or redness occurs and persists.
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. If breathing has stopped apply artificial respiration at once. Seek immediate medical advice.
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

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	in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons.
Scheduled Poisons:	Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons. Phone Australia 13 11 26.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazard:	Not combustible. May evolve toxic gas (chlorine) when heated to decomposition. Can react with metals to produce flammable hydrogen gas.
Extinguishing Media:	If material is involved in a fire use fine water spray, or use normal foam or dry agent (carbon dioxide, dry chemical powder).
Fire Fighting:	Keep containers exposed to extreme heat cool with fine water spray. Evacuate area and move upwind from fire. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition.
Flash Point:	None.
Hazchem Code:	2R.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Minor Spills:	Do not normally require special clean-up measures. Sweep up residues and 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 and inhalation of fumes. Contain spillage, then cover/absorb spill into dry, inert material (e.g. sand, earth or vermiculite), collect and place into suitable containers, appropriately labeled, for disposal by an approved agent according to local conditions. Spillage area may remain slippery. Flush spill area with water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment

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	protection authority or emergency services.
PPE:	Personal protective equipment advice is contained in Section 8 of this document.

SECTION 7: HANDLING AND STORAGE

Handling:	Avoid skin and eye contact and avoid breathing in vapours. Keep out of reach of children. Always wash hands with water after handling.
Storage:	Store in a cool, dry, place with good ventilation and out of direct sunlight. Avoid storing in aluminium and alloy containers. Store away from incompatible materials (see Section 10). Keep containers closed at all times when not in use.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS: None established for this product.

Ingredient	TWA	STEL	Notes
Sodium hypochlorite	1ppm- 3mg/m3	Not set	
Potassium hydroxide	2mg/m3		

	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 mists of the product. Ensure airflow, where	None required.

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	<p>this product is used, is directed away from the operators. Where an inhalation risk exists, mechanical extraction ventilation is recommended to maintain vapour levels below recommended exposure standard. For short elevated exposures e.g. spillages, appropriate respirator as per AS/NZS 1715 and 1716.</p>	
Eye and Face Protection:	<p>Chemical goggles or face shield to handle in quantity. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them.</p>	None required.
Hand and Skin Protection:	<p>Not required for normal use conditions but PVC or rubber gloves should be available. When using large quantities wear impervious PVC or rubber gloves (long) to dispense and coveralls. When using large quantities or where heavy contamination is likely, wear rubber boots and a PVC apron.</p>	None required.
Inhalation Protection:	<p>Not normally required under normal use conditions. Where an inhalation risk exists wear respirator that meets AS/NZS 1715 and AS/NZS 1716.</p>	None required.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear straw liquid		
Odour:	Faint chlorine odour	Vapour Pressure:	Not available
Odour Threshold:	Not available	Vapour Density:	Not available

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pH:	>13.0 neat	Relative Density (Water=1):	1.1-1.2 @ 25 °C
Melting/Freezing Point:	Not available	Water Solubility:	Soluble
Boiling Point:	100 °C approx.	Partition Coefficient n-Octanol/Water	Not available
Flash Point:	Not relevant	Auto-ignition Temperature	Not available
Evaporation Rate:	Not available	Decomposition Temperature	Not available
Flammability:	Not flammable	Viscosity	Non viscous
Upper/Lower Flammability:	Not relevant		

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	Contamination of product and exposure to heat and light will accelerate decomposition. May evolve chlorine gas when heated to decomposition.
Chemical Stability:	Stable under recommended conditions of storage. Reacts slowly with ambient air (particularly carbon dioxide), which may cause insoluble solids to form in solution.
Possibility of Hazardous Reactions:	Reacts exothermically with acids to produce poisonous chlorine gas. Decomposes on heating to produce toxic gases carbon monoxide, carbon dioxide and chlorine gas.
Conditions to Avoid:	Avoid contact with foodstuffs; exposure to heat, ignition sources and open flame; and exposure to direct sunlight. Avoid contact with acids and mixing with other chemicals. Reacts vigorously with acids. Avoid metal containers.
Incompatible Materials:	Acids, metals, metal salts, ammonium salts, methanol, organic materials (e.g. peroxides), reducing agents (e.g. amines), EDTA.

SECTION 11: TOXICOLOGICAL INFORMATION

Inhaled:	Breathing in mists or aerosols may produce respiratory irritation, coughing, nausea and headache. High concentration may cause harmful corrosive effects leading to lesions of the nasal septum, pulmonary oedema and other respiratory
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	conditions.
Skin Contact:	Corrosive to skin. May result in skin burns or irritation, redness, pain, rash and dermatitis. Corrosion will continue until removed and severity depends on concentration and duration of exposure. Burns are not immediately painful; onset of pain may be minutes to hours.
Eye Contact:	Corrosive to eyes. Contact can cause corneal burns and permanent eye damage may occur. High concentrations of vapours will cause irritation.
Ingestion:	Swallowing can result in nausea, vomiting of blood and eroded tissue, diarrhoea, abdominal pain and chemical burns to the mouth, throat and gastrointestinal tract.
Acute Toxicity:	Not toxic by calculation. No LD50 data available for this product. For active constituent, sodium hypochlorite (at 12-13%): Oral LD50 (mice) - 5800mg/kg Oral TDLo (woman) - 1gm/kg For active constituent, potassium hydroxide (at 100%): Oral LD50 (rat) - 333mg/kg
Chronic:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Product as sold: Acute aquatic toxicity (Category 2). Toxic to aquatic life. Product at USE DILUTION: Not toxic by calculation. 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). No LC50 data available for this product. For active constituent, sodium hypochlorite (at 12-13%): LC50 (rainbow trout) – 0.18-0.22mg/l – 96h. LC50 (fish) - 0.07-5.9 mg/l – 48h.
Persistence and Degradability:	Individual components stated to be biodegradable. Chlorine is biodegradable to salt and oxygen.
Bioaccumulative Potential:	None known. Highly water-soluble.

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Mobility in Soil:	May leach to ground water with resultant toxicity to aquatic organisms.
Other Adverse Affects:	None known.

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.:	1719
Proper Shipping Name:	CAUSTIC ALKALI LIQUID, N.O.S.
Transport Hazard Class:	8 – Corrosive
	
Packing Group:	III
Hazchem Code:	2R
Environmental Hazards for Transport:	Toxic to aquatic life.

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.
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	<p>CAS No. – Chemical Abstract Service Number used to uniquely identify chemical compounds.</p> <p>GHS – Globally Harmonised System.</p> <p>HAZCHEM – An emergency action code that gives information to emergency services during transport emergencies.</p> <p>IARC – International Agency for Research on Cancer.</p> <p>LD50 – Lethal Dose, 50%/median Lethal Dose.</p> <p>Mg/m³ – Milligrams per cubic metre.</p> <p>PPM – Parts per million.</p> <p>STEL – Short Term Exposure Limit.</p> <p>STOT – SE/RE – Specific Target Organ Toxicity (single/repeated exposure).</p> <p>SUSMP – Standard for the Uniform Scheduling of Medicines and Poisons.</p> <p>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.</p> <p>Preparation of Safety Data Sheets for Hazardous Chemicals – Code of Practice. December 2011 – Safe Work Australia.</p> <p>GHS Hazardous Chemical Information List - September 2014 – Safe Work Australia.</p> <p>Guidance on the Classification of Hazardous Chemicals under the WHS Regulations. April 2012 - Safe Work Australia.</p> <p>Global Harmonized System of Classification and Labelling of Chemicals (GHS). Fifth revised edition.</p> <p>List of Designated Hazardous Substances [NOHSC: 10005(1999)]</p> <p>Standard for the Uniform Scheduling of Medicines and Poisons. June 2016.</p> <p>Material Safety Data Sheets for individual raw materials – all suppliers.</p> <p>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