



SAFETY DATA SHEET

Krystal Klean

1. IDENTIFICATION

Product Name:	Krystal Klean
Product Codes:	DL7100 - 250g powder in white HDPE jar
Recommended use:	For cleaning of water distillation units and stainless steel. Removed mineral deposits from surfaces.
Contact Information:	Dentalife Australia Pty. Ltd. Factory 9/505 Maroondah Highway Ringwood, VIC, 3134, Australia Phone: +61 3 9879 1226
Emergency Telephone Number:	+61 3 9879 1226
Poisons Information Centre:	24 hour, 7 days a week in an emergency call: 13 11 26

2. HAZARD IDENTIFICATION

Signal Word:	DANGER
Label Elements: Pictograms	A GHS pictogram for skin corrosion, showing a hand being poured with liquid from a test tube, enclosed in a red diamond border.
Hazard Statement:	H314 Causes severe skin burns and eye damage H401 Toxic to aquatic life.
Precautionary Statements:	P260 - Do not breathe dust P264 - Wash exposed skin thoroughly after handling P273 - Avoid release to the environment P280 - Wear protective gloves, eye protection, protective clothing P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower



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P304+P340 - IF INHALED: Remove person to fresh air and keep 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 center/doctor
P363 - Wash contaminated clothing before reuse
P405 - Store locked up
P501 - Dispose of contents/container to comply with local, state and federal regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Composition</u>	<u>CAS No.</u>	<u>Proportion %</u>
Sulfamic acid	5329-14-6	99
Citric Acid Anhydrous	5949-29-1	1

4. FIRST AID MEASURES

Eye Contact:	Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.
Skin Contact:	Wash immediately with lots of water. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.
Inhalation:	Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service. Doctor: administration of corticoid spray.
Ingestion (swallowing):	Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Call Poison Information Centre. Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital. Do not give chemical antidote



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5. FIRE FIGHTING MEASURES

Extinguishing media:	Adapt extinguishing media to the environment. No unsuitable extinguishing media known.
Hazards from combustion products:	Non combustible
Firefighting instructions:	Cool tanks/drums with water spray/remove them into safety. Dilute toxic gases with water spray. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Gloves and safety glasses should be worn when handling product.
Environmental precautions:	Precent large spillage from entering waterways, drains or sewage system.
Methods and materials for containment and cleaning up:	Clean up spills immediately. Wear suitable protective clothing. Remove spills using plenty of water and a soft sponge or towel. Remove immediately to avoid staining or damaging surfaces. Material can be disposed according to local regulation. For containment : Contain released substance, pump into suitable containers. Consult "Material-handling" to select material of containers. Plug the leak, cut off the supply. Dam up the solid spill. Hazardous reaction: measure explosive gas-air mixture. Reaction: dilute combustible gas/vapour with water curtain. Knock down/dilute dust cloud with water spray. Methods for cleaning up : Prevent dust cloud formation. Scoop solid spill into closing containers. Carefully collect the spill/leftovers. Spill must not return in its original container. See "Material-handling" for suitable container materials. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.



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7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with skin and eyes. When using do not eat, drink or smoke. Wash hands and exposed skin after use. Contaminated clothing should be thoroughly cleaned.
Conditions for Safe Storage:	Store in a cool, dry, well-ventilated, fire-proof area. Keep containers tightly sealed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. This product should be stored at a temperature not greater than: 25°C. Do NOT freeze.
Container:	Container type/packaging must comply with all applicable local legislation. Store in original packaging as approved by manufacturer.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National exposure standards:	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC).
Biological limit values:	No information available on biological limit values for this product.
Engineering controls:	A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.
Personal protection:	RESPIRATOR: Wear an approved respirator with suitable vapour respirator or a self-contained breathing apparatus should be used to avoid inhalation of the product (AS1715/1716). EYES: Chemical goggles to prevent splashing in the eyes (AS1336/1337). HANDS: Wear impervious protective gloves (AS2161). CLOTHING: Long-sleeved lab coat, full-suit, and safety footwear (AS3765/2210) NOTE: Suggested protective clothing might not be sufficient; consult a specialist before handling this product.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colourless to amber solution
Odour:	Odourless
Boiling Point (°C):	Not available
Vapor Pressure:	Not available
Specific gravity:	1.0 to 1.1 g/mL
Flashpoint (°C)	Not available
Flammability limits (%):	Not flammable
pH:	7.0 to 7.4
Other properties:	Disinfectant and surfactant properties

10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal conditions of use, storage and temperature
Conditions to Avoid:	Avoid excessive heat (>40°C), sunlight, moisture, static discharges, naked flames, and other sources of ignition
Hazardous reactivity (polymerization):	Does not occur
Hazardous Decomposition Products:	Decomposes slowly on exposure to water (moisture): release of corrosive products. This reaction is accelerated on exposure to temperature rise. On burning: release of toxic and corrosive gases/vapours (nitrous vapours, sulphur oxides).
Incompatible materials:	Reacts on exposure to water (moisture) with (some) metals: release of highly flammable gases/vapours (hydrogen). When involved in a fire, this product may generate carbon oxides, nitrogen oxides and halogenated compounds. Reacts violently with (strong) oxidizers. Reacts exothermically with (some) bases.

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11. TOXICOLOGICAL INFORMATION

Toxicity Data

Acute Oral Toxicity : 6300mg/Kg (Mouse - Calculated value for the mixture) Oral Median LD Rat : 2000mg/Kg
Acute Oral LD50 Rat : 2000mg/Kg (Chlorhexidine Gluconate) Acute Oral LD50 Mus : 1260mg/Kg

Chronic Effects : The substance is toxic to lungs, mucous membrane (human)

Routes of Entry : Eye contact, inhalation, ingestion.

Acute

Ingestion: Very hazardous in case of ingestion. May be harmful if swallowed. Accidental ingestion may cause human health damage. It is likely to result in irritation of the gastrointestinal tract.

Eye: Severe irritant to the eye. This material is considered to represent risk of serious damage to eyes.

Skin: Hazardous in case of skin contact (irritant). It is not expected to cause significant or prolonged irritation by skin contact. Repeated exposure may cause dermal disturbances. It is not expected to cause systemic harmful effects after skin contact. Product is a photosensitiser. This material showed low primary skin irritation potential to rabbit skin. Eczema and leg ulcer patients patch tested with 1% Chlorhexidine Digluconate solutions developed contact dermatitis. Topical applications of solutions in patients have caused urticaria, dyspnea and anaphylactic shock

Inhaled: Hazardous in case of inhalation. The substance is toxic to lungs, mucous membrane (human).

12. ECOLOGICAL INFORMATION

Ecotoxicity: Acutely toxic towards fish, acutely very toxic to daphnia magna and algae. LC50 (fish, fresh water, 48h) = 13,4 mg/L EC50 (Daphnia magna, 48h) = 0,087 mg/L EC50 (algae, 72h) = 0,081 mg/L

Persistence and degradability: Bio-elimination : <10% Oxygen consumption Summary : Chlorhexidine Gluconate is not biodegraded in screening level tests due to its antimicrobial properties and high concentration of test substance in these tests. Environmental : Test with activated sludge (Batch and continuous tests) at environmentally relevant, Chlorhexidine Digluconate concentrations demonstrate nearly waste water, largely as a result of bio-degradation.



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Mobility:	No information available on mobility for this product. Easily Soluble in water.
Environmental fate (exposure):	DO NOT let product reach waterways, drains and sewers.
Bioaccumulation potential:	No information available on bioaccumulation for this product.

13. DISPOSAL CONSIDERATIONS

Persons conducting disposal, recycling or reclamation activities should ensure that appropriate personal protection equipment is used, see "Section 8. Exposure Controls and Personal Protection" of this SDS. If possible, material and its container should be recycled. If material or container cannot be recycled, dispose in accordance with local, regional, national, and international Regulations.

14. TRANSPORT INFORMATION

Road and Rail Transport:	Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".
Marine Transport:	Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
Air Transport:	Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

Regulatory Information:	Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons. (SUSMP).
This material/constituent(s) is covered by the following requirements:	All components of this product are listed or exempt from the Australian Inventory of Industrial Chemicals (AIIC)



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16. OTHER INFORMATION

Product is considered safe if used as intended.

Product is intended for professional dental/medical use only.

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. No warranty, either expressed or implied, is made with respect to the information or the product to which the information refers. Each user must review this SDS in the context of how the product will be handled and used in the workplace.

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