

SAFETY DATA SHEET

Product Name: Denture Cleaning Tablets; Steradent Express Active Plus Tablets



Section 1 - Identification of The Material and Supplier

Product Name: Denture Cleaning Tablets; Steradent Express Active Plus Tablets
Product Type: Denture cleaning tablets.
SDS Number: D8002989-v3.1
Formulation No: 0301841v3.0 (Fresh); 0378493v3.0 (Original)
Product Use: Air Consumer use.

Supplier Details:

Australia: Reckitt Benckiser (Australia) Pty Limited

ABN: 17 003 274 655

680 George Street, Sydney NSW 2000

Tel: +61 2 9857 2000

New Zealand: Reckitt Benckiser (New Zealand) Limited

2 Fred Thomas Drive, Takapuna, Auckland, New Zealand 0622

Tel: +64 9 484 1400

Poisons Information Centre: **Australia: Phone 131 126**
New Zealand: 0800 764 766 or 0800 POISON

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Xi, Irritating. Hazardous according to the criteria of SWA.

Not a Dangerous Good according to Australian Dangerous Goods (ADG) Code, IATA or IMDG/IMSBC criteria.



GHS Signal word: WARNING

HAZARD STATEMENT:

H302: Harmful if swallowed.

H319: Causes serious eye irritation.

H315: Causes skin irritation.

PREVENTION

P101: If medical advice is needed, have product container or label at hand.

P102: Keep out of reach of children.

P264: Wash hands thoroughly after handling.

RESPONSE

P301+312: IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+313: If eye irritation persists: Get medical advice/attention.

DISPOSAL

P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Emergency Overview

Physical Description & Colour: White or turquoise tablets.

Odour: Menthol/eucalyptus or mint/wintergreen fragrance.

Major Health Hazards: Harmful if swallowed, causes serious eye irritation, causes skin irritation.

Section 3 - Composition/Information on Ingredients

Ingredients	CAS No	Conc, %
pentapotassium bis (peroxymonosulphate) bis(sulphate)	70693-62-8	15-30
disodium carbonate, compound with hydrogen peroxide (2:3)	15630-89-4	10-15

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citric acid	77-92-9	10-15
sodium carbonate	497-19-8	5-10
malic acid	6915-15-7	2.5-5
sodium dodecylbenzenesulfonate	25155-30-0	<2.5
Various non-hazardous ingredients	secret	to 100

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Skin Contact: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention.

Eye Contact: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion: Wash out mouth with water. Remove dentures if any. Move to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison centre or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Protection of first-aiders: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Most important symptoms and effects, both acute and delayed

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : Harmful if swallowed. Irritating to mouth, throat and stomach.

Skin contact : Causes skin irritation.

Eye contact : Causes serious eye irritation.

Over-exposure signs/symptoms

Eye contact : Symptoms may include pain, irritation, watering and redness.

Skin contact : Symptoms may include irritation and redness.

Ingestion : No specific data.

Inhalation No specific data.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Treat symptomatically.

Section 5 - Fire Fighting Measures

Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media: None known

Special hazards arising from the substance or mixture

Hazards from the substance or mixture: No specific fire or explosion hazard.

Hazardous thermal decomposition products: Decomposition products may include carbon monoxide, carbon dioxide, sulphur oxides and metal oxides.

Advice for firefighters

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Special protective actions for fire-fighters: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6 - Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental Precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and Material for Containment and Cleaning Up:

Small spill: Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor.

Reference to Other Sections: See Section 1 for emergency contact information

See Section 8 for information on appropriate personal protective equipment

See Section 13 for additional waste treatment information

Section 7 - Handling and Storage

Precautions for safe handling

Protective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Storage: Long term Storage temperature: 5 to 25°C. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Do not expose to temperatures above 50°C. Temperatures up to 50°C are permissible for a maximum of five days, and temperatures up to 40°C are permissible for a maximum of eight weeks.

Specific end use(s)

Recommendations : Denture cleaners.

Industrial sector specific solutions: Not available.

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: **AS/NZS 4501** set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits

TWA (mg/m³)

STEL (mg/m³)

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Exposure limits have not been established by SWA for this product.

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Engineering Controls Ventilation: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

Hygiene Measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection:

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection: Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 - Physical and Chemical Properties:

Physical Description & colour:	White or turquoise tablet.
Odour:	Menthol/eucalyptus or mint/wintergreen fragrance.
pH:	6 to 8 (2% w/w aqueous mixture).
Freezing/Melting Point:	No specific data. Solid at normal temperatures.
Boiling Point:	Not available.
Volatiles:	No data.
Vapour Pressure:	No data.
Vapour Density:	Not applicable.
Relative density:	1.0-1.2 (bulk density).
Water Solubility:	Easily soluble.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	Not applicable.
Coeff Oil/water Distribution:	No data.
Viscosity:	Not applicable.
Autoignition temp:	No data.
Explosive Properties:	No data.
Oxidising Properties:	Not an oxidising solid.

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Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.

Conditions to Avoid: None known.

Incompatibilities: Acids and oxidisers.

Fire Decomposition: Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. May form sulphur oxides and metal oxides.

Polymerisation: This product will not undergo polymerisation reactions.

Section 11 - Toxicological Information

Acute toxicity

Product/Ingredient Name	Result	Species	Dose	Exposure
pentapotassium bis (peroxymonosulphate) bis (sulphate)	LC ₅₀ Inhalation Vapour	Rat	1.85 mg/L	4 hr
	LD ₅₀ Dermal	Rabbit	2000 mg/kg	
	LD ₅₀ Oral	Rat	500 mg/kg	
disodium carbonate, compound with hydrogen peroxide (2:3)	LD ₅₀ Oral	Rat	1034 mg/kg	
citric acid	LD ₅₀ Oral	Rat	3 g/kg	
sodium carbonate	LD ₅₀ Dermal	Rabbit	>2000 mg/kg	
	LD ₅₀ Oral	Rat	2800 mg/kg	
malic acid	LD ₅₀ Oral	Rat	1600 mg/kg	
Sodium dodecylbenzenesulfonate	LD ₅₀ Oral	Rat	438 mg/kg	

Acute toxicity Estimates: Not available.

Irritation/Corrosion:

Product/Ingredient Name	Result	Species	Score	Exposure	Observation
citric acid	Eyes - Severe irritant	Rabbit		24 hr 750 µg	
	Skin - Mild irritant	Rabbit		24 hr 500 mg	
	Skin - Moderate irritant	Rabbit		0.5 mL	
sodium carbonate	Eyes - Mild irritant	Rabbit		0.5 min 100 mg	
	Eyes - Moderate irritant	Rabbit		24 hr 100 mg	
malic acid	Eyes - Severe irritant	Rabbit		24 hr 750 µg	
	Skin - Moderate irritant	Rabbit		24 hr 20 mg	
Sodium dodecylbenzenesulfonate	Eyes - Severe irritant	Rabbit		24 hr 250 µg	
	Eyes - Severe irritant	Rabbit		1%	
	Skin - Moderate irritant	Rabbit		24 hr 20 mg	

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Inhalation: No known significant effects or critical hazards.
Skin Contact: Irritating to skin.
Eye Contact: Causes serious eye irritation.
Ingestion: Harmful if swallowed, irritating to mouth, throat and stomach.

Sensitisation: No known effect according to our database.
Mutagenicity: No known effect according to our database.
Reproductive toxicity: No known effect according to our database.
Teratogenicity: No known effect according to our database.
Specific target organ toxicity (single exposure): No known effect according to our database.
Specific target organ toxicity (repeated exposure): No known effect according to our database.
Aspiration hazard: No known effect according to our database.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Long term exposure:

Potential immediate effects: Not available.
Potential delayed effects: Not available.

Section 12 - Ecological Information

Ecotoxicity:

Product/Ingredient Name	Result	Species	Exposure
pentapotassium bis (peroxymonosulphate) bis (sulphate)	Acute LC ₅₀ >32 mg/L Fresh water	Fish - Brachydanio rerio	96 hr
disodium carbonate, compound with hydrogen peroxide (2:3)	Acute EC ₅₀ 70 mg/L	Algae - Chlorella emersonii	240 hr
	Acute EC ₅₀ 4.9 mg/L	Daphnia - Daphnia Pulex	48 hr
	Acute LC ₅₀ 70.7 mg/L	Fish - Pimephales promelas	96 hr
citric acid	Acute LC ₅₀ 160 mg/L Marine water	Crustaceans - Carcinus maenas - Adult	48 hr
sodium carbonate	Acute EC ₅₀ 242 mg/L Fresh water	Algae - Navicula seminulum	96 hr
	Acute LC ₅₀ 176 mg/L Fresh water	Crustaceans - Amphipoda	48 hr
	Acute LC ₅₀ 265 mg/L Fresh water	Daphnia - Daphnia magna	48 hr
	Acute LC ₅₀ 300 mg/L Fresh water	Fish - Lepomis macrochirus	96 hr
Sodium dodecylbenzenesulfonate	Acute EC ₅₀ 29 mg/L Fresh water	Algae - Chlorella pyrenoidosa - Exponential growth phase	96 hr
	Acute EC ₅₀ 7.81 mg/L Fresh water	Crustaceans - Ceriodaphnia	48 hr

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		dubia - Neonate	
	Acute EC ₅₀ 5.88 ppm Fresh water	Daphnia - Daphnia magna	48 hr
	Acute LC ₅₀ 112.4 mg/L	Algae - Pseudokirchneriella subcapitata - Exponential growth phase	72 hr
	Acute LC ₅₀ 1.18 ppm Fresh water	Fish - Lepomis macrochirus	96 hr

Persistence and Degradability:

Sodium bicarbonate biodegrades readily. No data available regarding other components.

Bioaccumulative Potential:

Product/Ingredient Name	LogPow	BCF	Potential
Citric acid	-1.8		Low
Malic acid	-1.26		Low
Sodium dodecylbenzenesulfonate	1.96		Low

Mobility in Soil:

Not available

Other Adverse Effects:

No known significant effects or critical hazards.

Section 13 - Disposal Considerations

Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

Waste Treatment Methods:

Product:

Methods of Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Waste packaging should be recycled.

Hazardous Waste: The classification of the product may meet the criteria for a hazardous waste.

Packaging:

Methods of Disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special Precautions: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14 - Transport Information

	ADG	IMDG	IATA
UN Number	None allocated	None allocated	None allocated
UN Proper Shipping Name	None allocated	None allocated	None allocated
Transport Hazard Class	None allocated	None allocated	None allocated
Transport Hazard Sub Class	None allocated	None allocated	None allocated
Packing Group	None allocated	None allocated	None allocated
Hazchem code	None allocated	None allocated	None allocated
ADG Special Provisions code	None allocated	None allocated	None allocated
Environmental Hazards			

Packing Instruction: None allocated

Section 15 - Regulatory Information

Poison schedule (Australia):

Not scheduled

Australia inventory (AICS):

All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC):

All components are listed or exempted.

HSNO Approval Number:

HSR002552

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HSNO Group Standard:
APVMA Approval Number:
TGA ARTG:
MedSafe:

Cosmetic products
Not applicable

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number
Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

Creation Date: **September, 2016**

This version issued: **October, 2016** and is valid for 5 years from this date.

Revision comments: First issue to GHS standard mentioned below.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Please read all labels carefully before using product.

This SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)