

Material Safety Data Sheet

Version: 2.0
Revision Date: 14.01.2013

1. Identification of material and supplier

Product details:

Trade name: Premier Klercide-CR Sterile Biocide X, Klercide-CR Biocide X

Recommended use: Hard Surface Disinfectant solution (concentrate) for use on floors walls and hard surfaces.

Supplier: ECOLAB PTY LTD (A.B.N. 59 000 449 990)
2 Drake Avenue, Macquarie Park NSW 2113

E-mail address of the competent person responsible for the Safety Data Sheet:

EUR-UK-SHIELD-MSDS@ecolab.com

Emergency information:

Emergency Number: 02801 44558

2. Hazards identification

Hazards Identification:

HAZARDOUS SUBSTANCE.

DANGEROUS GOODS.



C; Corrosive

N; Dangerous for the environment

Risk Phrases

R 34 Causes burns.

R43: May cause sensitisation by skin contact.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S60: This material and its container must be disposed of as hazardous waste.

S61: Avoid release to the environment. Refer to special instructions/safety data sheet.

Poisons Schedule

Not a scheduled poison

(Standard for the Uniform Scheduling of Drugs and Poisons No. 23)

Classification system:

Hazard classification according to the criteria of NOHSC [NOHSC:1008(2004)]

Dangerous goods classification according to the Australia Dangerous Goods Code.



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3. Composition/information on ingredients

Chemical characterization

Description Aqueous solution.

Components	CAS	Weight %	Classification
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	20 - 30	Xn, R22 C, R34 N, R50
POLY(HEXAMETHYLENEBIGUANIDE) HYDROCHLORIDE	91403-50-8	10 - 20	R43 Xi, R36/38 N, R51/53

4. First aid measures

General information:	Immediately remove any clothing contaminated by the product. Personal protection for the person providing first aid.
After inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing. Supply fresh air. If required, provide artificial respiration. Keep patient warm. Call a doctor immediately. Take affected persons out of danger area and into the open air.
After skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate. Instantly wash with water and soap and rinse thoroughly. Consult a doctor for safety reasons.
After eye contact:	Corneal burns may occur. May cause permanent damage. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.
After swallowing:	Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose. Drink copious amounts of water and provide fresh air. Instantly call for doctor. Rinse out mouth and then drink plenty of water. Do not induce vomiting - Danger of perforation. If swallowed, seek medical advice immediately and show this container or label.
Advice to Doctor:	Treat according to symptoms.

5. Fire fighting measures

Suitable extinguishing agents:	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
For safety reasons unsuitable extinguishing agents:	None known
Special hazards caused by the material, its products of combustion or flue gases:	Corrosive. Non-flammable. In combustion emits toxic fumes.
Protective equipment:	Wear self-contained breathing apparatus and full protective clothing along with protective equipment.
Hazchem Code:	2X

6. Accidental release measures

Emergency procedure:	Person-related safety precautions: Wear protective clothing and keep away unprotected persons. Ensure adequate ventilation. Avoid skin and eye contact. Do not breathe vapours.
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Measures for environmental protection: Do not allow to enter drainage system, surface or ground water. Prevent material from reaching sewage system, holes and cellars.

Methods and materials for containment and clean up:

Ensure adequate ventilation. Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations.

7. Handling and storage

Precautions for safe handling:

Information for safe handling: Ensure good ventilation/exhaustion at the workplace. Avoid skin and eye contact under any circumstances. Do not inhale vapours/aerosols. Make sure that all applicable workplace limits are observed.

Conditions for Safe Storage:

Observe all local and national regulations for storage of water polluting products. Store away from foodstuffs. Do not store together with alkalis (caustic solutions). Keep container tightly sealed. Store in cool, dry conditions. Protect from frost. Store container in a well-ventilated position.

8. Exposure controls / personal protection

National Exposure Standards

No exposure standard has been established for this product by the Australian National Occupational Health and Safety Commission (NOHSC).

Components with critical values that require monitoring at the workplace:

None.

Biological Limit Values

No information available on biological limit values.

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 equipment

RESPIRATOR: Wear an approved P1 respirator where dusts/vapours are formed (AS/NZS1715/1716).

EYES: Chemical safety goggles (AS1336/1337).

HANDS: Wear PVC gloves (AS2161).

CLOTHING: Impervious coveralls and safety footwear (AS3765/2210).

9. Physical and chemical properties

Appearance:	Liquid
Colour:	Colourless
Odour:	Barely perceptible odour
Melting point/Melting range:	No information available
Boiling point/Boiling range:	80 – 100 °C
pH:	4 - 6
Flammability limits %:	Not applicable
Flash point:	Not applicable
AutoFlammability:	Product is not self-igniting
Explosion limits:	Product is not explosive
Oxidising properties:	Not applicable
Octanol/water partition coefficient:	No information available
Viscosity:	No information available

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Vapour pressure:	No information available
Relative density:	~1(20°C)
Evaporation rate (butyl acetate = 1):	No information available
Solubility in / Miscibility with Water:	Soluble
Organic Solvents:	Soluble with most solvents

10. Stability and reactivity

Chemical Stability

Product is stable under directed conditions of use, storage and temperature.

Conditions to Avoid

Avoid excessive heat, generating dust, direct sunlight, static discharges, moisture and high temperatures.

Incompatible Materials

Strong oxidising agents. Strong acids.

Hazardous Decomposition Products

In combustion emits toxic fumes.

Hazardous Reactions

No data available.

11. Toxicological information

Acute toxicity

N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride CAS: 68424-85-1

Acute LD ₅₀ (oral):	ca. 344 mg/kg Species: rat
Acute LD ₅₀ (dermal):	ca. 3,340 mg/kg Species: rabbit
Skin irritation:	Corrosive Species: rabbit Exposure time: 24 h Method: DOT

POLY(HEXAMETHYLENEBIGUANIDE) HYDROCHLORIDE CAS: 91403-50-8

Acute LD ₅₀ (oral):	> 2,000 mg/kg Species: rat
Acute LD ₅₀ (dermal):	> 5,000 mg/kg Species: rat

12. Ecological information

Ecotoxicity

N-Alkyl(C12-16)-N,N-dimethyl-N-benzylammonium chloride CAS: 68424-85-1

Toxicity to daphnia (EC ₅₀):	< 1 mg/l Species: Daphnia magna (Water flea) Exposure time: 48 h Method: EPA-FIFRA
Toxicity to daphnia (NOEL):	0.0042 mg/l Species: Daphnia magna (Water flea) Exposure time: 21 d Method: US-EPA
Toxicity to bacteria (EC ₁₀₀):	20 mg/l Species: Pseudomonas putida Exposure time: 96 h
Toxicity to fish (LC ₅₀):	0.28 mg/l Species: Pimephalespromelas (fathead minnow)

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Exposure time: 96 h	
Method: US-EPA	
Toxicity to fish (LC ₅₀):	0.93 mg/l
	Species: Oncorhynchus mykiss (rainbow trout)
	Exposure time: 96 h
	Method: US-EPA
Toxicity to fish (NOEC):	0.032 mg/l
	Species: Pimephales promelas (fathead minnow)
	Exposure time: 34 d
	Method: EPA-FIFRA
Toxicity to fish (LC ₅₀):	0.515 mg/l
	Species: Bluegill sunfish
	Exposure time: 96 h
	Method: US-EPA
Toxicity to daphnia (EC ₅₀):	0.025 mg/l
	Species: Daphnia magna (Water flea)
	Exposure time: 48 h
	Method: EPA-FIFRA
Toxicity to daphnia (NOEL):	0.0042 mg/l
	Species: Daphnia magna (Water flea)
	Exposure time: 21 d
	Method: EPA-FIFRA
Toxicity to algae (ErC ₅₀):	0.049 mg/l
	Species: Selenastrum capricornutum (green algae)
	Exposure time: 72 h
	Method: OECD Test Guideline 201
Toxicity to bacteria (EC ₅₀):	7.75 mg/l
	Species: activated sludge
	Exposure time: 3 h
	Method: OECD 209
POLY(HEXAMETHYLENEBIGUANIDE) HYDROCHLORIDE CAS: 91403-50-8	
Toxicity to fish (LC ₅₀):	3.2 - 13 mg/l
	Species: Pinperch
	Exposure time: 96 h
Mobility:	Readily absorbed into soil.
Persistence and degradability:	Not readily biodegradable.
Bioaccumulative potential:	No bioaccumulation potential.
Other adverse effects:	Very toxic to aquatic organisms.

13. Disposal considerations

Disposal	Disposal must be made in accordance with all local, state and federal regulations.
Special Precautions for Land Fill or Incineration	Waste disposal key numbers from EWC (European waste catalogue) : 2001-29

14. Transport information

Land transport ADG:	
ADG Class:	8
Kemler Number:	80
UN Number:	1760
Packaging group:	II

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Label:	8
Designation of goods:	CORROSIVE LIQUID, N.O.S. (N-ALKYL(C12-16)-N,N-DIMETHYL-NBENZYLAMMONIUMCHLORIDE)
Maritime transport IMDG-Code:	
IMDG Class:	8
UN Number:	1760
Packaging group:	II
EMS Number:	F-A,S-B
Correct technical name:	CORROSIVE LIQUID, N.O.S. (N-ALKYL(C12-16)-N,N-DIMETHYL-NBENZYLAMMONIUMCHLORIDE)
Air transport ICAO-TI and IATA-DGR:	
ICAO/IATA Class:	8
UN Number:	1760
Label:	8
Packaging group:	II
Correct technical name:	CORROSIVE LIQUID, N.O.S. (N-ALKYL(C12-16)-N,N-DIMETHYL-NBENZYLAMMONIUMCHLORIDE)

15. Regulatory information

Poisons Schedule	Not a scheduled poison (Standard for the Uniform Scheduling of Drugs and Poisons No. 23)
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16. Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant R phrases:

R-phrase(s) are those of the ingredients and do not necessarily represent the classification of the preparation.

R22: Harmful if swallowed.

R34: Causes burns.

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R50: Very toxic to aquatic organisms.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.