

BROAD SPECTRUM QUATERNARY DISINFECTANT

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT NAME	Alpine Clean	HMIS CODES	Health	1
PRODUCT CODES	ACD/5, ACD/20	Flammability		0
CHEMICAL FAMILY	Organic/Inorganic	Reactivity		0
USE	General Disinfectant	PPI		B
MANUFACTURER'S NAME	Greenleaf Solutions Ltd	EMERGENCY TELEPHONE NO.		
	PO Box 64-125	Poisons Information Centre		
	Botany, Auckland NZ 1703	New Zealand	0800-764-766	
DATE OF PREPARATION	15 th December, 2004	Australia	13-1126	
		TECHNICAL SERVICE TELEPHONE NO.		
			0061-9-530 9550	

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 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS
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% by WT	CAS No.	INGREDIENT	UNITS
0.05	68424-95-3	Di-N-alkyl (C8-10)dimethylammonium chloride	
		ACGIH TLV	N/D
		OSHA PEL	N/D
0.04	Mixture	Linear primary and/or secondary alcohol ethoxylates and/or nonyl phenol ethoxylate	
		ACGIH TLV	N/D
		OSHA PEL	N/D
0.03	68424-85-1	N-Alkyl (C12-16)dimethylbenzylammonium chloride	
		ACGIH TLV	N/D
		OSHA PEL	N/D
0.03	64-02-8	Tetrasodium ethylenediamine tetra acetate	
		ACGIH TLV	N/D
		OSHA PEL	N/D
0.01	6834-92-0	Sodium Metasilicate	
		ACGIH TLV	N/D
		OSHA PEL	N/D
99.8	7732-18-5	Water	
		ACGIH TLV	N/D
		OSHA PEL	N/D

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 Section 3 -- HAZARDS IDENTIFICATION
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SUMMARY OF ACUTE HAZARDS
 Based on the available animal toxicity information, it is anticipated that this material will cause mild or no skin or eye irritation upon direct or prolonged contact. No human overexposure data is available for this material.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION
 None known.

EYE CONTACT
 May cause eye irritation.

SKIN CONTACT
 May cause skin irritation.

INGESTION
 May cause Nausea and vomiting.

SUMMARY OF CHRONIC HAZARDS
 None known.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE - No effects indicated.

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Section 4 -- FIRST AID MEASURES

If INHALED: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

If on SKIN: Immediately wash with soap and water. Remove and wash any contaminated clothing.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention if irritation persists.

If SWALLOWED: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

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Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
None	N/D	N/D

EXTINGUISHING MEDIA

Non-flammable. Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece breathing apparatus and other protective clothing. Hazardous decomposition products possible (see Section 10).

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Use absorbent materials to prevent footing hazard and to contain. Avoid flushing into sewers, drains, waterways, and soil. Wear protective clothing and respiratory protection during cleanup.

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Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use.

OTHER PRECAUTIONS: Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

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Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION (SPECIFY TYPE): None required.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear rubber gloves.

EYE PROTECTION: Safety glasses (ANSI Z-87.1 or equivalent)

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Plastic apron and sleeves.

WORK/HYGIENIC PRACTICES: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

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 Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >212 F (100 C) @ 760mm Hg
 SPECIFIC GRAVITY (H2O = 1): 1.00
 VAPOR PRESSURE (mm Hg): N/D
 MELTING POINT: N/A
 VAPOR DENSITY (AIR = 1): N/D
 EVAPORATION RATE (ETHYL ACETATE = 1): N/D
 APPEARANCE/ODOR: Blue Liquid / Mild Odour
 SOLUBILITY IN WATER: Soluble

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 Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable
 CONDITIONS TO AVOID: None
 INCOMPATIBILITY (MATERIALS TO AVOID): None known.
 HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO, and fragmented hydrocarbons.
 HAZARDOUS POLYMERIZATION: Will not occur.

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 Section 11 -- TOXICOLOGY INFORMATION

CHRONIC HEALTH HAZARDS
 No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA
 Ingredient Name

Di-N-alkyl(C8-10)dimethylammonium chloride
 Oral-Rat LD50:240 mg/kg
 Inhalation-Rat LC50:N/D

-eye irritation (rabbit): non-irritant (primary irritation index = 0.0)
 -skin irritation (rabbit): non-irritant (primary irritation index = 0.0)

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 Section 12 -- Ecological Information

ECOLOGICAL DATA
 Ingredient Name

Di-N-alkyl(C8-10)dimethylammonium chloride
 Food Chain Concentration Potential None
 WATERFOWL TOXICITY None
 BOD None
 AQUATIC TOXICITY None

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 Section 13 -- DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated liquid waste.
 Disposal Method: Dispose of in accordance with local, state and federal regulations.

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 Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-regulated
 OCEAN (IMDG): Non-regulated
 AIR (IATA): Non-regulated
 WHMIS (CANADA): Non-regulated

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Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
Ingredient Name

This is an EPA registered pesticide (EPA Registration No. 6836-152-51219)

Di-N-alkyl(C8-10)dimethylammonium chloride
SARA 313 No
TSCA Inventory Yes
CERCLA RQ N/A
RCRA Code N/A

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Section 16 -- OTHER INFORMATION

The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the users own assessment of workplace risk as required by other health and safety legislation.