

AQUATREAT SCALE & CORROSION INHIBITOR

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 Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME	HMIS CODES	
AQUATREAT SCALE & CORROSION INHIBITOR	Health	2
PRODUCT CODES	Flammability	2
SCI/1, SCI /5 SCI /20	Reactivity	0
CHEMICAL FAMILY	PPI	B
Organic/Inorganic		
USE		
Preventing scale & corrosion in water systems		
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.	
Greenleaf Solutions Ltd	Poisons Information Centre	
PO Box 64-125	New Zealand 0800-764-766	
Botany, Auckland NZ 1703	Australia 13-1126	
DATE OF PREPARATION	TECHNICAL SERVICE TELEPHONE NO.	
15 th December, 2004	0061-9-530 9550	

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 Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
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--	111-76-2	Glycol Butyl Ether	
		ACGIH TLV	N/D
		OSHA PEL	N/D
	1310-73-2	Sodium Hydroxide	
		ACGIH TLV	N/D
		OSHA PEL	N/D
	2809-21-4	Acetodiphosphonic Acid (ADPA)	
		ACGIH TLV	N/D
		OSHA PEL	N/D

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 Section 3 -- HAZARDS IDENTIFICATION

SUMMARY OF ACUTE HAZARDS

Irritation to eyes, nose, and throat; drowsiness, narcosis, tremors, and other CNS effects at high concentrations. Skin irritation, dermatitis, and defatting.

ROUTE OF EXPOSURE, SIGNS AND SYMPTOMS

INHALATION

Nasal and respiratory irritation, dizziness, narcosis, headache, nausea, CNS depression, and unconsciousness.

EYE CONTACT

Watering, blurred vision, inflammation, and irritation which can result in corneal injury.

SKIN CONTACT

Irritation, dermatitis.

INGESTION

Nausea, vomiting; CNS depression; irritation of gastrointestinal tract, liver and peritoneal wall; lung congestion.

SUMMARY OF CHRONIC HAZARDS

Skin irritation, contact dermatitis, and defatting.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

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Section 4 -- FIRST AID MEASURES

 If INHALED: If overcome by exposure, remove victim to fresh air
 Obtain medical attention.
 If on SKIN: Immediately wash with soap and water. Remove and wash
 all contaminated clothing.
 If in EYES: Flush eyes with large amounts of water for 15 minutes.
 Get medical attention if irritation persists.
 If SWALLOWED: Induce vomiting and call a physician

Section 5 -- FIRE FIGHTING MEASURES

 FLASH POINT LEL UEL
 None N/D N/D

EXTINGUISHING MEDIA

Water spray, dry chemical, or foam

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained full face piece
 breathing apparatus and full body protective clothing. Hazardous
 decomposition products possible (see Section 10). Evacuate area. Dike area
 as run-off may create additional environmental contamination.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Foam or water can cause frothing. Heat
 may build up pressure and rupture containers.

Section 6 -- ACCIDENTAL RELEASE MEASURES

 STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources
 of ignition. Use absorbent materials to prevent footing hazard and to contain.
 Ventilate area with natural or explosion-proof, forced air ventilation. Avoid
 flushing into sewers, drains, waterways, and soil. Wear protective clothing
 and respiratory protection during cleanup.

Section 7 -- HANDLING AND STORAGE

 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Shake well before using.
 Keep away from heat, sparks and open flames.
 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.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

 RESPIRATORY PROTECTION (SPECIFY TYPE): In confined, poorly ventilated areas,
 use NIOSH/MSHA approved air purifying or supplied air respirators during
 soldering operations until fumes have dissipated.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: none

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: Chemical resistant coveralls

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.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

 BOILING POINT: >212 F (100 C) @ 760mm Hg
 SPECIFIC GRAVITY (H2O = 1): 1.04
 VAPOR PRESSURE (mm Hg): N/D
 MELTING POINT: N/A
 VAPOR DENSITY (AIR = 1): <1
 EVAPORATION RATE (ETHYL ACETATE = 1): >1
 APPEARANCE/ODOR: Clear Green Liquid / Mild Odour
 SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

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

Section 11 -- TOXICOLOGY INFORMATION

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

TOXICOLOGY DATA

Ingredient Name

Irritation data: skin, rabbit: 500 mg/24H severe; eye rabbit: 50 ug/24H severe; investigated as a mutagen.

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Sodium Hydroxide (1310-73-2)	No	No	None
Glycol Butyl Ether (111-76-2)	No	No	None
Acetodiphosphonic Acid (2809-21-4)	No	No	None

Section 12 -- Ecological Information

 ECOLOGICAL DATA

Ingredient Name

Sodium Hydroxide		
Food Chain Concentration Potential		N/D
WATERFOWL TOXICITY		N/D
BOD		N/D
AQUATIC TOXICITY		N/D
Glycol Butyl Ether		
Food Chain Concentration Potential		N/D
WATERFOWL TOXICITY		N/D
BOD		N/D
AQUATIC TOXICITY		N/D
Acetodiphosphonic Acid		
Food Chain Concentration Potential		N/D
WATERFOWL TOXICITY		N/D
BOD		N/D
AQUATIC TOXICITY		N/D

Section 13 -- DISPOSAL CONSIDERATIONS

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

Section 14 -- TRANSPORTATION INFORMATION

DOT: Non-Regulated
 OCEAN (IMDG): Non-Regulated

 AIR (IATA): Non-Regulated
 WHMIS (CANADA): N/A

Section 15 -- REGULATORY INFORMATION

REGULATORY DATA
 Ingredient Name

Polylene Glycol Butyl Ether	SARA 313	No
	TSCA Inventory	Yes
	CERCLA RQ	N/A
	RCRA Code	N/A
Sodium Metasilicate	SARA 313	No
	TSCA Inventory	Yes
	CERCLA RQ	N/A
	RCRA Code	N/A
Acetodiphosphonic Acid	SARA 313	No
	TSCA Inventory	Yes
	CERCLA RQ	N/A
	RCRA Code	N/A

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.