MATERIAL SAFETY DATA SHEET

ICE MACHINE CLEANER

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

HSNO CODE 400032
Health 3
Flammability 0
Reactivity 0
PPI D

PRODUCT NAME
Nickel-Safe Ice Machine Cleaner

PRODUCT CODES
88312, 88314

CHEMICAL FAMILY:
Inorganic Acids

USE
Ice Machine Cleaner

MANUFACTURER'S NAME
GreenEarth Solutions ltd
PO Box 64-125
Botany, Auckland NZ

DATE OF PREPARATION
September 20, 2012

EMERGENCY TELEPHONE NO.
Poisons Information Centre
New Zealand 0800-764-766
Australia 13-1126

TECHNICAL SERVICE TELEPHONE NO.
0064-9-272 4141

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT	UNITS
20	50-21-5	Lactic Acid	
10	5949-29-1	Citric Acid	
Balance		Filtered Water	

Section 3 -- HAZARDS IDENTIFICATION 8.2C - 8.3A

Not classified as a Dangerous Goods under NZS 5433:2007 Transport of Dangerous Goods on Land.
Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.
Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.
Subclass 8.2 Category c - Causes serious eye damage

- Causes severe skin burns and eye damage
- Keep out of reach of children
- Read label before use
- Wear protective gloves

Section 4 -- FIRST AID MEASURES

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing
and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm.
Keep at rest until fully recovered. Seek medical advice if effects persist.
Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and
hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical
assistance.
Eye Contact: Immediately wash in and around the eye area with large amounts of water for at least 15 minutes.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
None	N/A	N/A

EXTINGUSING MEDIA

Use agents appropriate for surrounding fires.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10). Evacuate immediate area.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Evacuate area and keep upwind until gas has dispersed. Dike spill. Dilute with water fog (direct application of alkali may cause violent splattering). Neutralize with Soda Ash then sweep/shovel up spills or use an industrial vacuum cleaner Persons not wearing protective equipment and clothing should be restricted from areas of spills or leaks until clean up has been completed.

Section 7 -- HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep container closed and upright when not in use. Do not store near heat, sparks, or open flames. This product will attack glass, concrete and certain metals. Store only in plastic containers. DO NOT USE METAL CANS.

OTHER PRECAUTIONS: Refrain from splashing product when pouring. Avoid all contact with skin or clothing. Empty containers may contain residues and vapours. KEEP OUT OF REACH OF CHILDREN.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION : In confined poorly ventilated areas,use NIOSH/MSHA P2 approved air purifying or supplied air purifying or supplied air respirators.

VENTILATION - LOCAL EXHAUST: Acceptable

SPECIAL: N/A

MECHANICAL (GENERAL): Acceptable

OTHER: N/A

PROTECTIVE GLOVES: Wear acid resistant gloves (neoprene, PVC, butyl rubber).

EYE PROTECTION: Full-face shield and chemical splash goggles (ANSI Z-87.1 or equivalent).

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Acid resistant vinyl or polyethylene coated 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 @ 760mm Hg
SPECIFIC GRAVITY (H20 = 1):	1.27
VAPOR PRESSURE (mm Hg):	3.4 @ 68 F (20 C)
MELTING POINT:	N/A
VAPOR DENSITY (AIR = 1):	1
EVAPORATION RATE (ETHYL ACETATE = 1):	<1
APPEARANCE/ODOUR:	Clear Liquid / Irritating Odour

SOLUBILITY IN WATER: Soluble

Section 10 -- STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.
CONDITIONS TO AVOID: Avoid exposure to heat.
INCOMPATIBILITY (MATERIALS TO AVOID):Incompatible with strong oxidising agents, alkalis, carbon steel and sources of ignition. The solution will very slowly corrode mild steel and soften concrete..
HAZARDOUS POLYMERIZATION: Will not occur.

Section 11 -- TOXICOLOGY INFORMATION

Swallowed: No adverse effects expected, however, large amounts may cause nausea and vomiting. Swallowing may result in irritation of the mouth and throat. Frequent or large oral doses can cause tooth erosion.
Eye: A severe eye irritant. Contamination of eyes can result in permanent injury
Skin: Contact with skin may result in irritation.
Inhaled: May cause irritation to the nose and lungs. Use in fresh air recommended.

Section 12 -- Ecological Information

Ecotoxicity Effects: Highly toxic for fish, not considered to be toxic for bacteria.
Degradability: Easily biodegradable.

Section 13 -- DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of absorbed materials and liquid waste in accordance with all local, state and federal regulations.

Section 14 -- TRANSPORTATION INFORMATION

Road & Rail Transport: Not classified as a Dangerous Goods under NZS 5433:2007 Transport of Dangerous Goods on land.
Marine Transport: Not classified as Dangerous Goods by the criteria of the international Air Transport Association (IATA) NON DANGEROUS GOODS.

Section 15 -- REGULATORY INFORMATION

Classification: Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001.

Subclasses: Subclass 6.1 Category E - Substances which are acutely toxic.
Subclass 6.3 Category B - Substances that are mildly irritating to the skin.
Subclass 8.3 Category A - Substances that are corrosive to ocular tissue.

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.