



Company Details:

Waterwell Projects (PTY) LTD
Reg No. 2001/018862/07

Waterwell Projects (PTY) LTD

Unit 1 Megazone Park

Hertford Junction R512

Lanseria 1748

Tel: 010 446 8356 or 073 077 0973

Fax: 086 471 2504

Poison Centre: **0861 555 777**

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

a) Identification of the substance or preparation:

- 1.1 Trade / Commercial Name:** Waterwell Electrode Cleanse (packed 1L)
1.2 Chemical Name: Water soluble Mineral and Organic acids
1.3 Chemical family: Mineral and Organic acids and derivatives
1.4 Synonyms:
1.5 Un No. 3265
1.6 CAS No.
1.7 Hazchem code:

b) Information of Distributor :

Waterwell Projects (PTY) LTD

Unit 1 Megazone Park

Hertford Junction R512

Lanseria 1748

Tel: 010 446 8356 or 073 077 0973

Fax: 086 471 2504

Alternate suppliers:

BUCKMAN LABORATORIES (PTY) LTD

PO Box 591,

Hammarisdale, 3700

1 Buckman Boulevard

Hammarisdale

KwaZulu Natal

Tel: 031 736 8800

Fax: 031 736 1593

Emergency telephone number: 0800 736 8800

2. COMPOSITION

Component	CAS No	% w/w	Risk Phrases
Hydrochloric Acid	7647-01-0	>13	R40/20/22; R41; R52
Ethanedioic Acid	144-62-7	>0.01	
Particulates Not Otherwise Regulated		<0.05	

While some substances are claimed as trade secret in accordance with the provisions, all ingredients classified as hazardous to health or the environment, within the current knowledge of the supplier and in the concentrations applicable, have been reported above, in compliance with the Occupational Health and Safety Act 85 of 1993.

3. HAZARDS IDENTIFICATION

This is a non-flammable but corrosive liquid. A corrosive irritant to skin, eyes and respiratory system. Causes severe burns to skin on contact which could result in deep ulceration.

Eye contact may cause eye corrosion with corneal and conjunctival ulceration. Ingestion of this substance can cause severe internal burns and damage.

Gross overexposure may cause death.

This acid is corrosive to most metals with the evolution of hydrogen gas, which may form explosive mixtures with air.

4. FIRST AID MEASURES

Product in the eye: 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 15 minutes. Get medical attention if irritation occurs.

Product on the skin: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Product ingested: Wash out mouth with water. Remove dentures if any. Move exposed person 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. Seek medical attention.

Inhalation: May be harmful if inhaled. Do not breathe spray mists of the undiluted product. Effects will depend upon solution strength and length of time of exposure. If exposure by inhalation is suspected, immediately move exposed individual to fresh air.

Note to physician: For specialist medical advice in the event of an emergency contact 0861 555 777.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use an extinguishing agent suitable for the surrounding fire.

Special Hazards: In a fire or if heated, a pressure increase will occur and the container may burst. 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.

Protective Clothing: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to

European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8).

Environmental precautions: Avoid dispersal of spilled 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).

Large spill : Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Handling: Put on appropriate personal protective equipment (see Section . 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. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.

Storage: 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 unlabeled containers.
Use appropriate containment to avoid environmental contamination.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	No exposure limit value known.
Occupational exposure controls:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection:	Where exposures are below the established exposure limit, no respiratory protection is required. When established limits are exceeded, or misting may occur in the work area, a NIOSH approved respirator may be required. Use a respirator approved for the material and level of exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand protection:	Use Chemical Resistant Gloves.
Eye protection:	Chemical splash-proof goggles must be worn when handling any chemical product.
Skin protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid.
Colour:	Clear to Slightly Hazy, Pale Yellow

Odour:	Mild. (Citrus)
Ph:	<2.5 [Acidic.]
Boiling Point:	± 97°C
Flammability	Non-flammable
Flash Point:	Closed cup: >100°C
Density:	1.05 to 1.12 g/cm ³
Miscibility	(Water @ 20°C) Miscible in all proportions

10. STABILITY AND REACTIVITY

Stability:	The product is stable.
Conditions to avoid:	No specific data.
Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Inhalation:	<p>Causes nose and throat irritation. The effects include irritation of the upper respiratory passages with coughing wheezing and extreme shortness of breath. Higher inhalation exposures may lead to corrosion of mucous surfaces with temporary lung irritation with cough, difficulty in breathing or shortness of breath. Individuals with pre-existing diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures. High or prolonged inhalation exposure may cause possible life threatening accumulation of fluid in the lungs (pulmonary oedema). Fatality may occur from gross overexposure.</p>
Skin contact:	Overexposure by skin contact include skin burns or ulceration.
Eye contact:	Eye contact may cause eye corrosion with corneal or conjunctival ulceration – corneal damage and vision tests are needed.
Ingestion:	<p>May cause permanent impairment of vision. Ingestion causes severe acid burns of the mouth, throat, oesophagus, and stomach with burning pain of the mouth, throat, chest, and abdomen. Vomiting and diarrhoea of dark blood may occur with penetration of the oesophagus or stomach – if severe burns occur in the mouth, then oesophageal burns may exist.</p>

Toxicological information: Repeated or prolonged exposure to low levels may produce erosion of the teeth and ulceration of the nasal septum and gums. Human poison by unspecified route and mildly toxic by inhalation. Mutation data has been reported.

12. ECOLOGICAL INFORMATION

Environmental fate: Runoff from fire-control water or dilution water can cause pollution. Liquid has high volatility. Liquid has high mobility in soil.

Toxicity and biodegradability: This substance is fatal to aquatic organisms and fish as large discharges contribute to the acidification of water. Can cause severe damage to aquatic plants.

Persistence and degradation: The product degrades readily and will not persist in the environment. The product does not bio-accumulate.

Effect on effluent treatment: Large discharges may contribute to the acidification of effluent treatment systems and injure sewage treatment organisms.

Inform the management authorities on sewage works if this product enters the sewers.

13. DISPOSAL CONDITIONS

Disposal Method The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

14. TRANSPORT INFORMATION

Un No.: 3265

SANS 10228: Not regulated

IMDG: Not regulated

IATA: Not regulated

15. REGULATORY INFORMATION

Risk phrases: This product is not classified according to EU legislation.

International regulations

Chemical Weapons Not listed

Convention List Schedule I Chemicals:

Chemical Weapons: Not listed

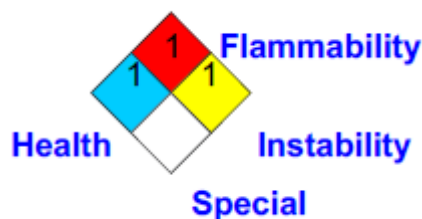
Convention List Schedule II Chemicals

Chemical Weapons: Not listed

Convention List Schedule III Chemicals

16. OTHER INFORMATION

National Fire Protection
Association (U.S.A.)



The information herein is given in good faith and to the best of our knowledge at the current date. The accomplishment of the instructions herein does not exempt the user from following the legal and administrative regulations relative to product, environmental safety and hygiene, which are user's own responsibility. In case of mixture with other substances, ensure that other risks are not generated.

Date of Revision: **19 June 2019 (general revision)**