HURST SCIENTIFIC

Safety Data Sheet
Electrode Cleaning Solution

SECTION 1: Identification

GHS Product identifier

Product name	Electrode Cleaning Solution
Product number	1479-500ML, 1L, 2.5L, 5L, 10L
Brand	Hurstchem

Recommended use of the chemical and restrictions on use

Laboratory Reagent

Supplier's details

Name	Hurst Scientific
Address	2/36 Hensbrook Loop 6112 Forrestdale WA Australia
Telephone	1300 778 068
email	sales@hurstscientific.com.au

Emergency phone number

Australian Poisons Information Centre 131 126
Australian Emergency Services 000

SECTION 2: Hazard identification

General hazard statement

Classified as a Non Hazardous substance according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

SECTION 3: Composition/information on ingredients

Mixtures

1. Hydrochloric acid

Concentration	< 1 %
CAS no.	7647-01-0

2. PEPSIN A

Concentration	< 10 %
CAS no.	9001-75-6

3. Water/Aqua/Eau

Concentration	Balance to 100 %
CAS no.	7732-18-5

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	Remove victim from exposure if safe to do so. If rapid recovery does not occur, transport to nearest medical facility for additional treatment. Remove contaminated clothing.
In case of skin contact	If skin contact occurs, remove contaminated clothing and wash skin thoroughly with water and follow by washing with soap if available.
In case of eye contact	If in eyes, hold eyes open, flood with water for at least 15 minutes. If symptoms persist transport to nearest medical facility for additional treatment.
If swallowed	do NOT induce vomiting. Transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Personal protective equipment for first-aid responders
Eye wash station, safety shower and First Aid kit.

Indication of immediate medical attention and special treatment needed, if necessary
Treat symptomatically based on judgement of doctor and individual reactions of patient.

SECTION 5: Fire-fighting measures

Suitable extinguishing media
Foam, water spray or fog, dry chemical powder.

Specific hazards arising from the chemical
May emit toxic fumes under fire conditions.

Special protective actions for fire-fighters
Wear SCBA (Self-Contained Breathing Apparatus) and full protective equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Avoid contact with spilled or released material. Shut off leaks, if possible without personal risks. Isolate hazard area and deny entry to unnecessary or unprotected personnel. Ventilate contaminated area thoroughly.

Environmental precautions
Use appropriate containment to avoid environmental contamination. Prevent from spreading and entering waterway using sand, earth or other appropriate barriers. Attempt to disperse the vapour or to direct its flow to a safe location for example by using fog sprays. Ventilate contaminated area thoroughly.

Methods and materials for containment and cleaning up
Use appropriate instruments to put the spilled material in a waste disposal container. Dispose of in accordance with regional regulations.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid contact with skin, eyes and clothing. Do not ingest. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Keep containers tightly closed as glycerol is hygroscopic (absorbs water). Handle and open containers with care in a well-ventilated area.

Conditions for safe storage, including any incompatibilities
Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.

SECTION 8: Exposure controls/personal protection

Control parameters

CAS: 7647-01-0
Hydrochloric acid
AU/SWA (Australia): 5 Peak limitation ppm; 7.5 Peak limitation mg/m3 TWA inhalation

Appropriate engineering controls
Ensure that adequate ventilation is provided. Maintain air concentrations below recommended exposure standards. Avoid generating and inhaling mists and vapours. Keep containers closed when not in use.

Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection
Safety glasses or goggles.

Skin protection
Use solvent resistant gloves, nitrile for longer term protection or PVC and neoprene for incidental splashes.

Respiratory protection
If work practices do not maintain airborne level below the exposure standard, use appropriate respiratory protection equipment. When using respirators, select an appropriate combination of mask and filter. Select a filter for organic gases and vapours (boiling point > 65°C). Respirators should comply with AS1716 or an equivalent approved by a state/territory authority.

Environmental exposure controls
Biological Limit Values Not allocated for this product.

SECTION 9: Physical and chemical properties

Basic physical and chemical properties

Appearance	Liquid
Color	Clear
Odor	Nil
Odor threshold	Data not available
Melting point/freezing point	Data not available
Boiling point or initial boiling point and boiling range	Data not available
Flammability	Non-flammable
Flash point	Data not available
Decomposition temperature	Data not available
pH	1
Solubility	Soluble
Vapor pressure	Data not available
Relative vapor density	No Data Available

SECTION 10: Stability and reactivity

Reactivity
Stable under normal conditions of use.

Chemical stability

Stable under normal conditions of use.

Possibility of hazardous reactions
Hazardous polymerization will not occur.

Conditions to avoid
Avoid heat, sparks, open flames and other ignition sources.

Incompatible materials
Alkalies, organic materials, sulphites, sulphides, cyanides, aluminum, phosphorus, tin and zinc.

Hazardous decomposition products
Oxides of carbon and nitrogen.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity
Expected to be of low toxicity

Skin corrosion/irritation
May cause irritation

Serious eye damage/irritation
May cause irritation

Respiratory or skin sensitization
Not expected to be a sensitiser.

Germ cell mutagenicity
No evidence of mutagenic activity

Carcinogenicity
Not carcinogenic in animal studies

Reproductive toxicity
Not expected to impair reproduction.

Specific target organ toxicity (STOT) - single exposure
May be irritating to respiratory tissue. For hydrogen chloride LCLo human 1300ppm for 30 minutes, 3000ppm for 5 minutes

Specific target organ toxicity (STOT) - repeated exposure
Data not available

Aspiration hazard
Data not available

SECTION 12: Ecological information

Toxicity
Data not available

Persistence and degradability
Data not available

Bioaccumulative potential
Data not available

Mobility in soil
Miscible with water.

Other adverse effects
Data not available.

SECTION 13: Disposal considerations

Disposal methods

Product disposal
Ensure waste disposal conforms to local waste disposal regulations.

Packaging disposal
Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14: Transport information

UN Number	3264
Hazchem emergency action code (EAC)	2X
UN Proper Shipping Name	CORROSIVE LIQUID ACIDIC INORGANIC N.O.S (Contains Hydrochloric acid 1%)
Transport hazard class(es)	8
Packing group	III

Special precautions for user
Nil

SECTION 15: Regulatory information

Chemical Safety Assessment
• Poison Schedule: Not Scheduled

SECTION 16: Other information

Further information/disclaimer
This SDS is prepared in accordance with the Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011). The information contained within is believed to be accurate at the date of preparation/review. Hurst Scientific makes no claims of the accuracy or completeness of the information and excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. It is recommended the user make their own determinations as to the suitability of the information provided to the application in which the product is to be used.

Preparation information
References
1. Safe Work Australia, Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice, (2011).
2. Safe Work Australia, National Code of Practice for the Labelling of Workplace Hazardous Chemicals (2015).
3. Safe Work Australia, Workplace Exposure Standards for Airborne Contaminants (2013)
4. National Transport Commission Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code); Canprint: Canberra (2007), Volume 1, 7th Edition.
5. Standards Australia, Dangerous Goods Initial Emergency Response Guide: Australian Handbook (SAA/SNZ HB76); Homebush (2004).