

# **Safety Data Sheet**

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

1.1 Product identifier

Product name HI7073 PROTEIN CLEANING SOLUTION

Synonyms HI7073 - PRODUCT CODE ● PROTEIN CLEANING SOLUTION

1.2 Uses and uses advised against

Uses ELECTRODE CLEANER ● LABORATORY APPLICATIONS

Electrode Cleaning Solution for Applications with Proteins.

1.3 Details of the supplier of the product

Supplier name HANNA INSTRUMENTS PTY LTD

Address 18 Fiveways Blvd, Keysborough, VIC, 3173, AUSTRALIA

**Telephone** (03) 9769 0666 **Fax** (03) 9769 0699

Emailtechsupport@hannainst.com.auWebsitehttp://www.hannainst.com.au

1.4 Emergency telephone numbers

**Emergency** 13 11 26 (Poisons Information Centre)

### 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

**Physical Hazards** 

Corrosive to Metals: Category 1

**Health Hazards** 

Not classified as a Health Hazard

**Environmental Hazards** 

Not classified as an Environmental Hazard

2.2 GHS Label elements

Signal word WARNING

**Pictograms** 



**Hazard statements** 

H290 May be corrosive to metals.

**Prevention statements** 

P234 Keep only in original packaging.

Response statements

P390 Absorb spillage to prevent material damage.



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Storage statements

P406 Store in corrosive resistant container with a resistant inner liner.

**Disposal statements** 

None allocated.

#### 2.3 Other hazards

Classifications have been maintained in line with Hanna Instruments S.R.L. global assessments.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances / Mixtures

Ingredient	CAS Number	EC Number	Content
HYDROCHLORIC ACID	7647-01-0	231-595-7	0.27%
NON HAZARDOUS INGREDIENTS	Not Available	Not Available	Remainder

### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to Eye

stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Skin

Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

Ingestion For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If

swallowed, do not induce vomiting.

First aid facilities Eye wash facilities and safety shower should be available.

#### 4.2 Most important symptoms and effects, both acute and delayed

May cause irritation to the eyes, skin and respiratory system.

### 4.3 Immediate medical attention and special treatment needed

Treat symptomatically.

#### 5. FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

### 5.2 Special hazards arising from the substance or mixture

Non flammable. May evolve toxic gases if strongly heated.

### 5.3 Advice for firefighters

Treat as per requirements for surrounding fires. Evacuate area and contact emergency services. Remain upwind and notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.

#### 5.4 Hazchem code

2R

2 Fine Water Spray.

R Wear liquid-tight chemical protective clothing and breathing apparatus. Dilute spill and run-off.

### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Ventilate area where possible. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.



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#### 6.3 Methods of cleaning up

Contain spillage, then cover / absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

#### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use.

#### 7.3 Specific end uses

No information provided.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### **Exposure standards**

Ingredient	Reference	TWA		STEL	
ingredient	Itererence	ppm	mg/m³	ppm	mg/m³
Hydrogen chloride	SWA [Proposed]	2 (Peak)	2.98 (Peak)		
Hydrogen chloride (Hydrochloric acid)	SWA [AUS]	5 (Peak)	7.5 (Peak)		

### **Biological limits**

No biological limit values have been entered for this product.

#### 8.2 Exposure controls

Engineering controls Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction

ventilation is recommended. Maintain vapour levels below the recommended exposure standard.

PPE

**Eye / Face** Wear splash-proof goggles. **Hands** Wear PVC or rubber gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls. In a laboratory situation,

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wear a laboratory coat.

**Respiratory** Not required under normal conditions of use.





### 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

**COLOURLESS LIQUID Appearance ODOURLESS** Odour NON FLAMMABLE **Flammability NOT RELEVANT** Flash point **Boiling point** NOT AVAILABLE **NOT AVAILABLE Melting point Evaporation rate** NOT AVAILABLE 1.0 to 1.5 рΗ

Vapour density NOT AVAILABLE

ChemAlert.

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### 9.1 Information on basic physical and chemical properties

Relative density 1.0 **SOLUBLE** Solubility (water) 17.5 mm Hg Vapour pressure NOT RELEVANT **Upper explosion limit NOT RELEVANT** Lower explosion limit **NOT AVAILABLE** Partition coefficient **NOT AVAILABLE** Autoignition temperature Decomposition temperature **NOT AVAILABLE** NOT AVAILABLE Viscosity **NOT AVAILABLE Explosive properties** NOT AVAILABLE Oxidising properties **Odour threshold NOT AVAILABLE** 

### 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

May be corrosive to metals.

#### 10.2 Chemical stability

Stable under recommended conditions of storage.

#### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

#### 10.4 Conditions to avoid

Avoid heat, sparks, open flames and other ignition sources.

#### 10.5 Incompatible materials

Incompatible with oxidising agents (e.g. hypochlorites), alkalis (e.g. sodium hydroxide) and metals.

#### 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

#### 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity Acute oral exposure may result in irritation of the mouth, throat, oesophagus and gastrointestinal tract.

Information available for the ingredients:

Ingredient	Oral LD50	Dermal LD50	Inhalation LC50
HYDROCHLORIC ACID	2210 mg/kg (rat)		1108 ppm/1hr (human - respiratory irritation)

Skin Contact may result in irritation, redness, rash and dermatitis. May result in burns with prolonged contact.
 Eye Contact may result in irritation, lacrimation, pain and redness. May result in burns with prolonged contact.

**Sensitisation** Not classified as causing skin or respiratory sensitisation.

MutagenicityNot classified as a mutagen.CarcinogenicityNot classified as a carcinogen.ReproductiveNot classified as a reproductive toxin.

Reproductive Not classified as a reproductive toxin.

STOT - single Over exposure may result in irritation of the nose and throat, coughing, dizziness, drowsiness and headache.

STOT - repeated Not classified as causing organ damage from repeated exposure. Adverse effects are generally associated

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**exposure** with single exposure.

Aspiration Not classified as causing aspiration.

### 12. ECOLOGICAL INFORMATION



exposure

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#### 12.1 Toxicity

No information provided.

### 12.2 Persistence and degradability

No information provided.

#### 12.3 Bioaccumulative potential

No information provided.

#### 12.4 Mobility in soil

No information provided.

#### 12.5 Other adverse effects

No information provided.

### 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste disposal For small amounts (as determined by risk assessment or similar): Wearing the protective equipment detailed

above, neutralise to pH 6-8 by SLOW addition to a saturated sodium bicarbonate solution or similar basic solution. Dilute with excess water and flush to drain. Waste disposal should only be undertaken in a well

ventilated area. For larger amounts: Dispose in accordance with local regulations.

**Legislation** Dispose of in accordance with relevant local legislation.

### 14. TRANSPORT INFORMATION

#### CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE



	LAND TRANSPORT (ADG)	SEA TRANSPORT (IMDG / IMO)	AIR TRANSPORT (IATA / ICAO)
14.1 UN Number	1789	1789	1789
14.2 Proper Shipping Name	HYDROCHLORIC ACID	HYDROCHLORIC ACID	HYDROCHLORIC ACID
14.3 Transport hazard class	8	8	8
14.4 Packing Group	III	III	III

#### 14.5 Environmental hazards

Not a Marine Pollutant.

## 14.6 Special precautions for user

 Hazchem code
 2R

 GTEPG
 8A1

 EmS
 F-A, S-B

#### 15. REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the

Uniform Scheduling of Medicines and Poisons (SUSMP).

Classifications Safe Work Australia criteria is based on the Globally Harmonised System (GHS) of Classification and

Labelling of Chemicals (GHS Revision 7).



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Inventory listings AUSTRALIA: AllC (Australian Inventory of Industrial Chemicals)

All components are listed on AIIC, or are exempt.

**EUROPE: EINECS (European Inventory of Existing Chemical Substances)** 

All components are listed on EINECS, or are exempt.

#### 16. OTHER INFORMATION

#### Additional information

ACIDS: When mixing acids with water (diluting), caution must be taken as heat will be generated which causes violent spattering. Always add a small volume of acid to a large volume of water, NEVER the reverse.

RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

#### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

#### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Abbreviations	ACGIH	American Conference of Governmental Industrial Hygienists
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CAS # Chemical Abstract Service number - used to uniquely identify chemical compounds

CNS Central Nervous System

EC No. EC No - European Community Number

EMS Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous

Goods)

GHS Globally Harmonized System

GTEPG Group Text Emergency Procedure Guide
IARC International Agency for Research on Cancer

LC50 Lethal Concentration, 50% / Median Lethal Concentration

LD50 Lethal Dose, 50% / Median Lethal Dose

mg/m³ Milligrams per Cubic Metre
OEL Occupational Exposure Limit

pH relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly

alkaline).

ppm Parts Per Million

STEL Short-Term Exposure Limit

STOT-RE Specific target organ toxicity (repeated exposure)
STOT-SE Specific target organ toxicity (single exposure)

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SUSMP Standard for the Uniform Scheduling of Medicines and Poisons

SWA Safe Work Australia
TLV Threshold Limit Value
TWA Time Weighted Average



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#### Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

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