# SAFETY DATA SHEET

Date Prepared: August 2017
Version No: 1

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

| | |
|---|---|
| Product Name: | 0.5N Hydrochloric acid and 0.042M Sodium oxalate Solution |
| Product Code: | 5707 |
| Other Names: | Nil |
| Uses: | Analytical Reagent |
| Supplier: | Australian Chemical Reagents<br>38-50 Bedford Street Gillman SA 5013 |
| Contacts: | Telephone: 61 08 84402000<br>Fax: 61 08 84402001<br>Emergency Phone: 61 08 84402000 Mon – Fri 8:30am – 5:00pm |

## 2. HAZARDS INFORMATION

**GHS Classification**

Corrosive to metals: Category 1
Acute Toxicity – Dermal: Category 4
Acute Toxicity – Oral: Category 4

**Signal Word(s)**

WARNING

**Pictogram(s)**



**Hazard Statement(s)**

H290 May be corrosive to metals: Category 1
H302 Harmful if swallowed.
H312 Harmful in contact with skin.

**Precautionary Statement(s)**

**Preventative**

P234 Keep only in original container
P264 Wash thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective.

**Response**

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor/physician if you feel unwell.
P330 Rinse mouth.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material-damage.

| | |
|---|---|
| **Storage** | P406 Store in corrosive resistant/... container with a resistant inner liner. |
| **Disposa**l | P501 Dispose of contents/container to an approved waste disposal plant. |

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Ingredients :**

| Chemical Entity | CAS No | Proportion |
|---|---|---|
| Hydrochloric acid | [7647-01-0] | 1.6% |
| Sodium Oxalate | [62-72-0] | 0.53 |
| Water | [7732-18-5] | to 100% |

## 4. FIRST AID MEASURES

Safety showers and eye wash facilities should be provided.

**Swallowed :**

If conscious wash out mouth with water. Seek medical advice. Show this SDS to medical practitioner.

**Eye :**

Immediately hold eyelids open and flood with water for at least 15 minutes. Obtain medical aid. Show this SDS to medical practitioner.

**Skin :**

Remove contaminated clothing. Immediately wash skin thoroughly with water and mild soap. Seek medical advice if irritation persists. Show this SDS to medical practitioner. Launder clothing before reuse.

**Inhaled :**

Remove from contaminated air. Maintain breathing with artificial respiration if necessary. Seek medical assistance. Show this SDS to a doctor.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:**

Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

**Hazards From Combustion Products:**

Hydrochloric acid and its solutions will not burn or support combustion. However contact with aluminium, zinc or tin may generate explosive hydrogen gas. Decomposition products include hydrogen chloride.

**Precautions For Fire Fighters and Special Protective Equipment:**

Fire fighters and others who may be exposed to combustion products during fire should wear full protective clothing including positive pressure self-contained breathing apparatus (SCBA). Wear SCBA with full face-piece, operated in positive pressure mode when fighting fires.

## 6. ACCIDENTAL RELEASE MEASURES

**Emergency procedures:**

Prevent from entering waterways. Restrict access to area. Ventilate area. Remove chemicals that can react with the spilled material.

**Methods and materials for containment and clean up:**

Use inert material such as sand or earth to contain spill or leak. Neutralise with sodium bicarbonate. Absorb spills with chemical absorber or vermiculite and dispose of in accordance with local regulations.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:**

Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

**Conditions for Safe Storage:**

Store sealed in original container in a cool well ventilated situation away from foods and other chemicals. Do not store in direct sunlight. Observe good hygiene and housekeeping practices.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National Exposure Standards:**
Safe Work Australia – Hydrogen chloride 7.5mg/$m^3$ TWA & Peak Limitation

**Biological Limit Values:** No data available.

**Engineering Controls:**
Not required with normal use. If mists are likely to be generated maintain atmospheric concentrations well below exposure standards with extraction ventilation.

**Personal Protective Equipment (PPE):**
The use of nitrile or neoprene gloves complying with AS 2161 and the use of faceshield, chemical goggles or safety glasses with side shield protection complying with AS/NZS 1337 is recommended.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance :** | Clear liquid |
| **Odour:** | Nil |
| **pH:** | 1 |
| **Boiling Point ($^0$C) :** | Not applicable |
| **Freezing/melting Point:** | Not applicable |
| **Vapour Pressure (mm of Hg @ 25$^0$C) :** | Not applicable |
| **Vapour Density:** | Not applicable |
| **Specific Gravity :** | 1 |
| **Flash Point ($^0$C) :** | Not flammable |
| **Flammability Limits (%) :** | Not flammable |
| **Solubility in Water (g/L) :** | Soluble |

## 10. STABILITY AND REACTIVITY

**Chemical stability:**
Stable.
**Conditions to avoid:**
Excessive heat.
**Incompatible materials:**
Alkalis, hypochlorites, organic materials, sulphites, sulphides, cyanides, aluminum, phosphorus, tin and zinc.
**Hazardous decomposition products:**
Refer to section 5 (Fire Fighting Measures).
**Hazardous reactions:**
Hazardous polymerization will not occur.

## 11. TOXICOLOGICAL INFORMATION

**Health Effects:**
**Swallowed :** Irritating to tissue. Ingestion may cause vomiting, diarrhoea. For hydrogen chloride LD50 oral - rat 900mg/kg.
**Eye : I**rritating to eye tissue. For hydrochloric acid 100mg rinse produced mild irritation of rabbit eyes.
**Skin : I**rritating to skin tissue.
**Inhaled :** May be irritating to respiratory tissue. For hydrogen chloride LCLo human 1300ppm for 30 minutes, 3000ppm for 5 minutes
**Chronic Effects:** No data available.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity:**
No data available.

**Persistence and degradability:**
No data available.
**Mobility:**
No data available.

## 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state and local environmental regulations.

## 14. TRANSPORT INFORMATION

**UN Number:** 1760
**UN Proper Shipping Name:** CORROSIVE LIQUID, NOS (contains hydrochloric acid 7.2%)
**Class and subsidiary risk(s):** 8
**Packing Group**: 11
**Hazchem Code:** 2X
**Special precautions for user** : Nil

## 15. REGULATORY INFORMATION

**Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP):**
Schedule 6

## 16. OTHER INFORMATION

**Disclaimer:**