

# SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Revision Date Jul 01, 2021

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Р	roduct name	
С	AS-No.	
Р	Product code	

HYDROCHLORIC ACID 8.5% 7647-01-0 GP1378

### **1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified uses Chemical for analysis and production.

### 1.3 Details of the supplier of the safety data sheet

Company	RCI LABSCAN LIMITED.
	24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand
Telephone number	(662) 613-7911-4
Fax number	(662) 613-7915

### 1.4 Emergency Telephone Number Emergency phone

(662) 613-7911-4

### **SECTION 2: Hazards identification**

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008** Corrosive to metals (Category 1), H290 For the full text of the H-Statements mentioned in this Section, see Section 16.

### 2.2 Label elements Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal word	Warning
Hazard statement(s)	
H290	May be corrosive to metals.
Precautionary statement(s)	
P234	Keep only in original packaging.
P390	Absorb spillage to prevent material-damage.
P406	Store in corrosion resistant/ container with a resistant inner liner.
2.3 Other hazards	None

### **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Not applicable

### 3.2 Mixture

Hydrochloric acid Synonyms

Chlorohydric acid, Hydrogen chloride, Muriatic acid, Spirits of salt.

CAS-No	EC-No	EC-Index-No	Formula	Molecular Weight	Weight %
7647-01-0	231-595-7	017-002-01-X	HCI	36.46 g/mol	8.5

### Hazardous ingredients according to Regulation (EC) No 1272/2008

Component		Concentration	Classification
Hydrochloric acid			
CAS-No	7647-01-0	8.5%	Corrosive to metals (Category 1), H290
EC-No	231-595-7		Skin corrosion (Category 1B), H314
EC-Index-No 017-002-01-X			Serious eye damage (Category 1), H318
			Specific target organ toxicity - single exposure (Category
			3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice Inhalation	Show this safety data sheet to the doctor in attendance. Move to fresh air in case of accidental inhalation of vapors. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus.
Skin contact	Remove contaminated clothing and wash affected skin with soap and water. If signs of poisoning appear, treat as for inhalation. Obtain medical attention. Wash contaminated clothing before reuse.
Eye contact	If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention.
Ingestion	Rinse mouth. Do not induce vomiting. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. Obtain medical attention. Never give anything by mouth to an unconscious person.

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

The most important known symptoms and effects are described in section 2.2 and section 11

#### 4.3 Indication of any immediate medical attention and special treatment needed

After swallowing: make victim drink water (two glasses at the most), avoid vomiting (risk of perforation). Immediately call in physician. Do not attempt to neutralize.

### **SECTION 5: Firefighting measures**

### 5.1 Extinguishing media

Suitable extinguishing media

In adaption to materials stored in the immediate neighborhood.

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

Non-combustible. Hydrogen may form upon contact with metals (danger of explosion). Ambient fire may liberate hazardous vapors. The following may develop in event of fire: Hydrochloric acid.

#### 5.3 Advice for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

### 5.4 Further information

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

### **SECTION 6: Accidental release measures**

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

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

#### 6.2 Environmental precautions

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

#### 6.3 Methods and materials for containment and cleaning up

Spillage : soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits. Transfer to covered drums. Dispose of promptly.

#### 6.4 Reference to other sections

For disposal see Section 13.

### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Provision of good ventilation in the working area. The floor must be acid resistant. Suitable materials: Glass, Stoneware, porcelain, Polyvinyl chloride, Polyethylene (PE), Polypropylene, Polytetrafluoroethylene PTFE (Teflon). Do not leave container open. Avoid spillage.

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

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials. Requirements for containers, no metal containers.

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

The product should only be used in ventilation hoods and fans.

### Individual protection measures (Personal protective equipment, PPE)

### Eye/face protection

Goggles giving complete protection to eyes.

#### Skin protection

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes. Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from natural latex material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter E-(P2) (EN 141 or EN 14387).

### Environmental exposure controls

Prevent liquid entering sewers, basements and workpits.

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance: From	Liquid		
: Color	Colorless		
Odour	Odorless		
Odour Threshold	Not Available		
рН	<1 at 20ºC		
Melting point/range	Not Available		
Boiling point/range	Not Available		
Flash point	Not Available		
Evaporation rate	Not Available		
Flammability (solid, gas)	Not Available		
Explosion limits: lower	Not Available		
upper	Not Available		
Vapor Pressure	Not Available		
Relative Vapor Density	Not Available		
Density	1.04 g/ml at 20ºC		
Water solubility	Soluble at 20°C		
Partition coefficient (n-octanol/water)	Not Available		
Auto-Ignition temperature	Not Available		
Decomposition Temperature	Not Available		
Viscosity	Not Available		
Explosive properties	Not Explosive		
Oxidizing properties	The substance or mixture is not classified as oxidizing.		

### **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

Corrosive in contact with metals.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

The substance can react dangerously with various metals and metal alloys.

### 10.4 Conditions to avoid

Heat

### 10.5 Incompatible materials

Bases, organic bases, various metals and metal alloys.

### **10.6 Hazardous decomposition products**

Hydrogen gas (Hazardous decomposition products from under contact with metals).

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Mixture Acute toxicity Not Available

Acute oral toxicity Not Available

Acute inhalation toxicity Not Available

Skin corrosion/irritation Slight irritations

Serious eye damage/eye irritation Slight irritations

**Respiratory or skin sensitization** Not Available

Germ cell mutagenicity Not Available

Carcinogenicity Not Available

Reproductive toxicity Not Available

Teratogenicity Not Available

Specific target organ toxicity (STOT) - single exposure Not Available

Specific target organ toxicity (STOT) - repeated exposure Not Available

Aspiration hazard Not Available

### **Further information**

The product should be handled with the care usual when dealing with chemicals.

### **SECTION 12: Ecological information**

### Mixture

12.1 Toxicity Not Available

### 12.2 Persistence and degradability

Not Available

### 12.3 Bioaccumulative potential

Not Available

### 12.4 Mobility in soil

Not Available

### 12.5 Other adverse effects

Do not allow to enter waters, waste water or soil.

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Product

There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

### **Contaminated packaging**

Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

### **SECTION 14: Transport information**

Land Transport (ADR/RID) UN Number UN proper shipping name Transport hazard class(es) Packing group Environmental hazards Special precautions for user	1789 HYDROCHLORIC ACID 8 III No Yes
Sea transport (IMDG)	
UN Number	1789
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	8
Packing group	III
Marine pollutant	No
Special precautions for user	Yes
EmS	F-A S-B
Air transport (IATA)	
UN Number	1789
UN proper shipping name	HYDROCHLORIC ACID
Transport hazard class(es)	8
Packing group	III
Environmental hazards	No
Special precautions for user	No
River transport (AND/ADNR)	

(Not examined)

### **SECTION 15: Regulatory information**

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

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

Not Available

### **15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

### **SECTION 16: Other information**

### Full text of H-Statements referred to under sections 2 and 3

H290 May be corrosive to metals.

### **Recommended restrictions**

Take notice of labels and safety data sheets for the working.

### Reference

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.

Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.

Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

### **Further information**

Contact to RCI Labscan Limited.

### **Revision Date**

01/07/2021

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process unless specified in the text.