

HYDROCHLORIC ACID 37%

Safety Data Sheet

1. Product and Company Identification

1.1 Product Identifier

Product Name Hydrochloric Acid 37%
Synonyms -

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against Relevant Identified

Please consult manufacturer.

Uses

Uses Advised Against Please consult manufacturer.

1.3 Information on manufacturer/supplier

Company name: HONGKONG HEMAO COOPERATION LIMITED
Address: 1FRM 511, 5/F, MING SANG IND, BLDG, 19-21 HING YIP STREET, KWUN TONG HONG KONG.
Tel: +86-15315261806
Fax: +86-15315261806
Emergency phone number: +86-15315261806

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance

Corrosive To Metals Skin Category 1
Corrosion/Irritation Serious Eye Category 1
Damage/Eye Irritation Category 1
Specific Target Organ
Toxicity(SingleExposure): Category 3

2.2 GHS label elements, including precautionary statements Symbol



Signal Word Danger

2.3 Hazard statements

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H335	May cause respiratory irritation

2.4 Precautionary statements

Prevention

P234	Keep only in original packaging.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P264+P265	Wash hands and other contact area thoroughly after handling. Do not touch eyes

Response

P316	Get emergency medical help immediately.
P317	Get medical help.
P319	Get medical help if you feel unwell.
P321	Specific treatment (see measures on this label)
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P361+P354	IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage

P405	Store locked up
P406	Store in a corrosion resistant container with a resistant inner liner.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Concentration (weight percent, %)
Hydrochloric acid	7647-01-0	231-595-7	37

Water	7732-18-5	231-791-2	63
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4. FIRST-AID MEASURES

4.1 General Advice Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance,

4.2 Eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.

4.3 Skin contact Take off contaminated clothing and shoes immediately. Wash off with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable

4.4 Inhalation Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.

4.5 Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

4.6 Protecting of First-aidersngestion

Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

4.7 Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

4.8 Indication of immediate medical attention and special treatment needed, if necessary:

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media Unsuitable

Dry chemical, carbon dioxide or alcohol-resistant foam.

Extinguishing Media

Do not use a solid water stream as it may scatter or spread fire

5.2 Specific hazards arising from the chemical

- 1 Fire may produce irritating, poisonous or corrosive gases.
- 2 Containers may explode when heated.
- 3 Fire exposed containers may vent contents through pressure relief valves.
- 4 May expansion or decompose explosively when heated or involved in fire.

5.3 Special protective actions for fire-fighters

- 1 As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire fighting procedures

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation.Remove all sources of ignition.
- 2 Evacuate personnel to safe areas.Keep people away from and upwind of spillleak.
- 3 Use personal protective equipment.Avoid breathing vapours,mist,gas or dust.

6.2 Environmental precautions:

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

- 1 Absorb spilled material in drysand or inert absorbent In case of large amount of spllage,contain a spil by bunding.
- 2 Adhered or collected material should be promptly disposed of,in accordance with appropriate laws and regulations
- 3 Remove all sources of ignition.Use spark-proof tools and explosion-proof equipment.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/hot surfaces.
- 5 Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry,cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from inoompatibie materials and foodstuff containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit Values

Component	Country/Region	Limit Value-Eight Hours		Limit Value-Short Term	
		Ppm	mg/m ²	ppm	mg/m ³
Hydrochloric	USA-OSHA			5	7
	USA-NIOSH			5	7
	Spain	5	7.6	10	15
	South Korea	1	1.5	2	3
	Latvia	5	8	10	15
	Italy	5	8	10	15

acid 7647-01-0	Ireland	5	8	10	15
	Germany(AGS)	2	3	4	6
	Germany(AGS)	2	3	4	6
	Denmark	5	7	5	7
	Austria	5	8	10	15
	Australia			5	7.5

8.2 Engineering Controls

- 1 Ensure adequate ventilation, especially in confined areas,
- 2 Ensure that eyewash stations and safety showers are close to the workstation location.
- 3 Use explosion-proof electrical/ventilating/lighting/equipment.
- 4 Set up emergency exit and necessary risk-elimination area.

8.3 Personal Protection Equipment

Hand protection

Wear protective gloves (such as butyl rubber), passing the tests according to EN 374(EU), US F739 or AS/NZS 2161.1 standard.

Eye protection

Tightly fitting safety goggles (approved by EN 166(EU) or NIOSH(US)).

Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced, use a full-face respirator with multi-purpose combination (US) or type AXBEK (EN 14387) respirator cartridges..

Body protection

Wear fire/flame resistant retardant clothing and antistatic boots.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: colorless or yellowish fuming liquid

Odor Threshold: No information available

Melting Point/Freezing Point(°C): No information available

Flash Point(°C)(Closed Cup): No information available

Flammability: Not applicable

Vapor Pressure (KPa): No information available

Relative Density(Water=1): No information available

n-Octanol/Water Partition Coefficient: No information available

Odor: No information available

pH: No information available

Initial Boiling Point and Boiling Range(°C): No information available

Evaporation Rate: No information available

Upper/lower explosive limits[%(v/v)]: Upper limit: No information available; Lower limit: No information available

Relative Vapour Density(Air=1): No information available

Solubility: No information available

Auto-Ignition Temperature(C): No information available

Decomposition Temperature(°C):No information available
Particle characteristics:Not applicable

Kinematic Viscosity (mm²/s):No information available
Critical Temperature(°C):Not applicable

10. STABILITY AND REACTIVITY

Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical Stability	Stable under proper operation and storage conditions.
Possibility of Hazardous Reactions	In contact with magnesium,sodium,potassium,copper and other metals or metal acetylene may cause a fire or explosion.In contact with active metals(alkali metals, Na,Ca etc.)causes a reaction and release hydrogen.
Conditions to Avoid	Incompatible materials,heat,flame and spark.
Incompatible Materials	Magnesium,sodium,potassium,copper,oxidants,acetylene metal compounds, alcohols,alkanes,hydrogen and water.Akali,sodium,calcium,and other active metal,halogen,metal oxide,nonmetal oxide,acyl halide and metal phosphide.
Hazardous Decomposition products	Under normal conditions of storage and use,hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Component	CAS No.	LD ₅₀ (Oral)	LD ₅₀ (Dermal)	LC ₅₀ (Inhalation,4h)
Hydrochloric acid	7647-01-0	900mg/kg(Rabbit)	No information available	No information available

11.2 Skin Corrosion/Irritation

Causes severe skin burns and eye damage(Category 1).

11.3 Serious Eye Damage/Irritation

Causes serious eye damage(Category 1).

11.4 Skin Sensitization

No information available

11.5 Respiratory or skin sensitization

No information available

11.6 Germ Cell Mutagenicity

No information available

11.7 Carcinogenicity

ID	CAS No.	Component	IARC	NTP
1	7647-01-0	Hydrochloric acid	Category 3	Not Listed
2	7732-18-5	Water	Not Listed	Not Listed

11.8 Reproductive Toxicity

No information available

11.9 Reproductive Toxicity(Additional)

No information available

11.10 STOT-Single Exposure

May cause respiratory irritation(Category 3)

11.11 STOT-Repeated Exposure

No information available

11.12 Aspiration Hazard

No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil Hydrochloric acid does not meet the criteria for PBT Regulation(EC)No 1907/2006,annex XIII.

12.5 Results of PBT and vPvBAssessment

Water does not meet the griterla for PBT and vPvB according to Regulation(EC)No1907/2006,annex XIII.

13. DISPOSAL CONSIDERATIONS**13.1 Waste Chemicals ContaminatedPackaging Disposal Recommendations**

Burn Before disposal should refer to the relevant national and local laws and regulation. Containers may still present chemical hazard when empty.Keep away from hot and ignition source of fire.Return to supplier for recycling if possible.Refer to Waste chemicals and Contaminated packaging.

14. TRANSPORT INFORMATION

14.1 UN Number 1789

14.2 UN proper shipping name

HYDROCHLORIC ACID

14.3 Transport hazard class

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14.3 Transport Subsidiary Hazard Class

None

14.4 Packing group II

14.5 Marine Pollutant: YES

15. REGULATORY INFORMATION

Component	EINECS	TSCA	DSL	IECSC	NZIoC	PICCS	KECI	AICS	ENCS
Hydrochloric acid	√	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√

【EINECS】 European Inventory of Existing Commercial Chemical Substances.

【TSCA】 United States Toxic Substances Control Act Inventory.

【DSL】 Canadian Domestic Substances List

【IECSC】 China Inventory of Existing Chemical Substances.

【NZIoC】 New Zealand Inventory of Chemicals.

【PICCS】 Philippines Inventory of Chemicals and Chemical Substances.

【KECI】 Existing and Evaluated Chemical Substances.

【AICS】 Australia Inventory of Chemical Substances.

【ENCS】 Existing And New Chemical Substances.

Note

√ Indicates that the substance included in the regulations

x That no data or included in the regulations

16. OTHER INFORMATION

16.1 References and sources

16.2 Date of issue Mar. 05, 2024

This Safety Data Sheet(SDS)was prepared according to UN GHS (the 10th revised edition).The data included was derived from international authoritative database and provided by the enterprise.Other information was based on the present state of our knowledge.We try to ensure the correctness of all information.However,due to the adversity of information sources and the limitations of our knowledge,this document is only for user's reference.Users should make their independent judgment of stability of this information for their particular purposes.We do not assume responsibility for loss,damage or expense arising out of or in any way connected with the handling,storage,use or disposal of the product.