

Safety Data Sheet (SDS)

Hydrochloric Acid

CAS Number: 7647-01-0

Synonyms: Muriatic acid, Hydrogen chloride solution

Recommended Use: Industrial and laboratory chemical

Section 1: Identification

Product Name: Hydrochloric Acid

CAS Number: 7647-01-0

Formula: HCl

Manufacturer/Supplier: MBVS INDUSTRIES
Plot no A-348-349,
Ghatal, RIICO Industrial Area,
Bhiwadi, Alwar, Rajasthan, 301019

Emergency Phone: +91 9311559080

Section 2: Hazard Identification

GHS Classification:

- Skin Corrosion/Irritation – Category 1A
- Serious Eye Damage – Category 1
- Specific Target Organ Toxicity – Single Exposure (Respiratory tract irritation) – Category 3

Signal Word: DANGER

Hazard Statements:

H314: Causes severe skin burns and eye damage

H335: May cause respiratory irritation

Precautionary Statements:

P280: Wear protective gloves/protective clothing/eye protection/face protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable

Section 3: Composition/Information on Ingredients

Component	CAS No.	Concentration
Hydrochloric Acid	7647-01-0	30–32%
Water	7732-18-5	Balance

Section 4: First Aid Measures

Inhalation: Move to fresh air. If breathing is difficult, give oxygen and seek medical help.

Skin Contact: Remove contaminated clothing. Rinse with water for at least 15 minutes.

Eye Contact: Rinse cautiously for 15 minutes. Get immediate medical attention.

Ingestion: Do NOT induce vomiting. Rinse mouth. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, CO₂, dry chemical, foam

Hazardous Combustion Products: Hydrogen chloride gas

Protective Equipment: Full protective gear and SCBA

Section 6: Accidental Release Measures

Use PPE. Ventilate area.

Neutralize with lime/soda ash. Absorb and dispose properly.

Section 7: Handling and Storage

Handle with care. Avoid inhalation/contact.

Store in cool, ventilated area away from incompatible substances.

Section 8: Exposure Controls / Personal Protection

OSHA PEL: 5 ppm (Ceiling), ACGIH TLV: 2 ppm (Ceiling)

PPE: Gloves, goggles, apron, respirator

Section 9: Physical and Chemical Properties

Appearance: Colorless to yellow liquid

Odor: Pungent

Boiling Point: ~110°C

pH: <1

Solubility: Miscible in water

Section 10: Stability and Reactivity

Stable under normal conditions

Incompatible with metals, bases, oxidizers

Decomposes to hydrogen chloride gas

Section 11: Toxicological Information

Oral LD50 (rat): 238–277 mg/kg

Inhalation LC50 (rat, 1h): 3124 ppm

Effects: Burns, eye/respiratory irritation

Section 12: Ecological Information

Toxic to aquatic life in high concentrations

Low bioaccumulation potential

Section 13: Disposal Considerations

Dispose per local/national regulations

Neutralize and discard responsibly

Section 14: Transport Information

UN Number: 1789

Proper Shipping Name: Hydrochloric Acid

Hazard Class: 8 (Corrosive)

Packing Group: II

ADR/RID: Class 8, Code C1, HIN 80, Tunnel Code E

IMDG: EmS F-A, S-B, not marine pollutant

IATA: Allowed with limitations

Section 15: Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

Prepared by: [Insert Department]

Next Revision Date: April 2027

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.