


Material Safety Data Sheet	
HYDROCHLORIC ACID AR	VERSION : 04 DATE OF ISSUE : 01-08-2023 SUPERSEDES : 03
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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : HYDROCHLORIC ACID AR
Product code : 23540
Identification of the product : Hydrochloric acid
CAS No : 7647-01-0

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3. Details of the supplier of the safety data sheet

Company identification : MOLYCHEM
Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,
Mumbai – 400 002 (INDIA)
Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.
Email : info@molychem.net
Works: Plot No. B/9, Badlapur M.I.D.C., OPP.Shobhavat
Textile Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

1.4. Emergency telephone number

Emergency number : +91 22 4066 8111 (10:00am - 6:00 pm).

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Corrosive to Metals (Category 1), H290
Skin corrosion (Sub-category 1B), H314
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3),
Respiratory system, H335


2.2. Label elements

Labelling according Regulation (EC) No 1272/2008


C : Corrosive



R Phrase(s) : R34 : Causes burns.
R37 : Irritating to respiratory system.
S Phrase(s) : S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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S36/37/39 :	Wear suitable protective clothing, gloves and eye/face protection.
S45 :	In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
2.3. Other hazards :	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<u>3. Composition/information on ingredients</u>	
Mixtures	
Formula	: HCl
Molecular weight	: 36.46 g/mol
<u>4. First aid measures</u>	
4.1. Description of first aid measures	
General advice	
First aiders need to protect themselves. Show this material safety data sheet to the doctor in attendance.	
If inhaled	
After inhalation: fresh air. Call in physician.	
In case of skin contact	
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.	
In case of eye contact	
After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.	
If swallowed	
After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.	
4.2. Most important symptoms and effects, both acute and delayed	
The most important known symptoms and effects are described in the labelling (see section 2.2) v and/or in section 11	
4.3. Indication of any immediate medical attention and special treatment needed	
No data available	

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5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture

Hydrogen chloride gas

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3. Advice for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent and neutralising material (e.g. Chemizorb® H⁺, Merck Art. No. 101595). Dispose of properly. Clean up affected area.

6.4. Reference to other sections

For disposal see section 13.

7. Handling and storage


7.1. Precautions for safe handling

For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers.

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Tightly closed.

Storage class

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials

7.3. Specific end use(s)

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

8. Exposure controls/personal protection

8.1. Exposure controls

- Personal protection** : Avoid all unnecessary exposure.
- Respiratory protection** : Wear approved mask.
- Hand protection** : Wear protective gloves.
- Skin protection** : Wear suitable protective clothing.
- Eye protection** : Chemical goggles or face shield.
- Others** : When using, do not eat, drink or smoke.


8.2. Control parameters

Occupational Exposure Limits : No data available.


9. Physical and chemical properties

9.1. Information on basic physical and chemical properties


- a) Physical state liquid
- b) Color light Clear colourless
- c) Odor pungent
- d) Melting -30 °C
- point/freezing point
- e) Initial boiling point > 100 °C - lit.
- and boiling range
- f) Flammability No data available
- (solid, gas)
- g) Upper/lower No data available
- flammability or
- explosive limits
- h) Flash point Not applicable
- i) Autoignition temperature Not applicable
- j) Decomposition temperature No data available
- k) pH No data available
- l) Viscosity Viscosity, kinematic: No data available
- Viscosity, dynamic: 2.3 mPa.s at 15 °C
- m) Water solubility soluble
- n) Partition coefficient: No data available
- n-octanol/water

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o) Vapor pressure	227 hPa at 21,1 °C 547 hPa at 37,7 °C
p) Density	1,2 g/cm ³ at 25 °C - lit.
Relative density	No data available
q) Relative vapor density	No data available
r) Particle characteristics	No data available
s) Explosive properties	Not classified as explosive.
t) Oxidizing properties	none
9.2. Other information	No data available
10. Stability and reactivity	
10.1. Reactivity	No data available
10.2. Chemical stability	The product is chemically stable under standard ambient conditions (room temperature) .
10.3. Possibility of hazardous reactions	No data available
10.4. Conditions to avoid	no information available
10.5. Incompatible materials	Bases, Amines, Alkali metals, Metals, permanganates, for example potassium permanganate, Fluorine, metal acetylides, hexalithium disilicide Metals
10.6. Hazardous decomposition products	In the event of fire: see section 5
11. Toxicological information	
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes severe skin burns. pH: < 1
Serious eye damage/irritation	: Assumed to Causes severe skin burns. pH: < 1
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: No data available
STOT-repeated exposure	: May cause respiratory irritation.
Aspiration hazard	: Not classified

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<u>12. Ecological information</u>		
12.1. Toxicity		
Mixture No data available		
12.2. Persistence – degradability		
No data available		
12.3. Bioaccumulative potential		
No data available		
12.4. Mobility in soil		
No data available		
12.5. Results of PBT and vPvB assessment		
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6 Other adverse effects		
No data available		
<u>13. Disposal considerations</u>		
13.1. Waste treatment methods		
Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.		
Additional information	: Do not re-use empty containers	
<u>14. Transport information</u>		
14.1. UN number		
ADR/RID: 1789	IMDG: 1789	IATA: 1789
14.2 UN proper shipping name		
ADR/RID:	HYDROCHLORIC ACID	
IMDG:	HYDROCHLORIC ACID	
IATA:	Hydrochloric acid	
14.3 Transport hazard class(es)		
ADR/RID: 8	IMDG: 8	IATA: 8
14.4 Packaging group		
ADR/RID: II	IMDG: II	IATA: II
14.5 Environmental hazards		
ADR/RID: no	IMDG Marine pollutant: no	IATA: no

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14.6 Special precautions for user

No data available

15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

16. Other information

Abbreviations and acronyms :

PBT : persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Further information : None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008 **DISCLAIMER OF LIABILITY** The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

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