


<b>Material Safety Data Sheet</b>	
<b>HYDROCHLORIC ACID LR</b>	<b>VERSION : 04</b> <b>DATE OF ISSUE : 01-08-2023</b> <b>SUPERSEDES : 03</b>
<b>Product Code : 14860</b>	<b>Page 1 of 8</b>

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name** : HYDROCHLORIC ACID LR  
**Product code** : 14860  
**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., 2<sup>nd</sup> Floor,  
 Mumbai – 400 002 (INDIA)  
 Tel: +91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442.  
 Email : [info@molychem.net](mailto: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.

<b>Material Safety Data Sheet</b>	
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<b>Product Code : 14860</b>	<b>Page 2 of 8</b>

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.

### **3. Composition/information on ingredients**

#### **Mixtures**

Formula : HCl  
Molecular weight : 36.46 g/mol

### **4. First aid measures**

#### **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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<b>Product Code : 14860</b>	<b>Page 3 of 8</b>

## **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<sup>+</sup>, 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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<b>Product Code : 14860</b>	<b>Page 4 of 8</b>

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 point/freezing point -30 °C
- e) Initial boiling point and boiling range > 100 °C - lit.
- f) Flammability (solid, gas) No data available
- g) Upper/lower flammability or explosive limits No data available
- 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: n-octanol/water No data available

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**VERSION : 04**

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**SUPERSEDES : 03**

**Product Code : 14860**

**Page 5 of 8**

- |                             |                                       |
|-----------------------------|---------------------------------------|
| o) Vapor pressure           | 227 hPa at 21,1 °C 547 hPa at 37,7 °C |
| p) Density                  | 1,2 g/cm <sup>3</sup> 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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**HYDROCHLORIC ACID LR**

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**DATE OF ISSUE : 01-08-2023**

**SUPERSEDES : 03**

**Product Code : 14860**

**Page 6 of 8**

## **12. Ecological information**

### **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

## **13. Disposal considerations**

### **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

## **14. Transport information**

### **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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<b>Product Code : 14860</b>	<b>Page 7 of 8</b>

#### 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.

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#### End of document

**Prepared by: MOLYCHEM (INDIA)**

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<b>Product Code : 14860</b>	<b>Page 8 of 8</b>

Kulgaon, Badlapur (E), Dist.-Thane-421 503

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