MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1. Product identifier

Product form : Substance
Trade name : HYDROCHLORIC ACID ACIPUR
EC no : 231-595-7
CAS No : 7647-01-0
Product code : 0173A

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

1.2.1. Relevant identified uses

Intended for general public
Industrial/Professional use spec : Industrial
For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai - INDIA
T +91 22 6663 6663 - F +91 22 6663 6699
info@lobachemie.com - www.lobachemie.com

1.4. Emergency telephone number

Emergency number : + 91 22 6663 6663 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Skin corrosion/iritation, Category 1B
Specific target organ toxicity — Single exposure, Category 3,
Respiratory tract irritation

H314
H335

Full text of classification categories and H statements : see section 16
HYDROCHLORIC ACID ACIPUR
Safety Data Sheet

Classification according to Directive 67/548/EEC or 1999/45/EC
C; R34
Xi; R37
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Hazard pictograms (CLP)</th>
<th>GHS05</th>
<th>GHS07</th>
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<table>
<thead>
<tr>
<th>Signal word (CLP)</th>
<th>Danger</th>
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<tbody>
<tr>
<td>Hazard statements (CLP)</td>
<td>H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation</td>
</tr>
<tr>
<td>Precautionary statements (CLP)</td>
<td>P280 - Wear protective gloves, protective clothing, eye protection, face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P261 - Avoid breathing vapours, dust, fume, gas</td>
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2.3. Other hazards
No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

<table>
<thead>
<tr>
<th>Name</th>
<th>HYDROCHLORIC ACID ACIPUR</th>
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<tbody>
<tr>
<td>CAS No</td>
<td>7647-01-0</td>
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<tr>
<td>EC no</td>
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<table>
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<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
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<tr>
<td>Hydrochloric acid</td>
<td>(CAS No) 7647-01-0</td>
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<td>(EC index no) 017-002-01-X</td>
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</table>

Full text of R- and H-phrases: see section 16

3.2. Mixture
Not applicable
SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

Symptoms/injuries: Causes severe skin burns and eye damage.

Symptoms/injuries after inhalation: May cause respiratory irritation.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media


Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available.

5.3. Advice for firefighters

Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Use personal protective equipment as required.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Collect spillage. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Avoid contact with skin and eyes. Do not breathe vapours. Use only outdoors or in a well-ventilated area. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a well-ventilated place.

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

- **Hand protection**: Protective gloves
- **Eye protection**: Chemical goggles or face shield
- **Skin and body protection**: Wear suitable protective clothing
- **Respiratory protection**: Wear respiratory protection

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

- **Physical state**: Liquid
- **Colour**: Clear Colorless.
- **Odour**: Pungent odour.
- **Odour threshold**: No data available
- **pH**: No data available
- **Relative evaporation rate (butylacetate=1)**: No data available
- **Melting point**: -30 °C
- **Freezing point**: No data available
- **Boiling point**: 110 °C
- **Flash point**: No data available
- **Auto-ignition temperature**: No data available
- **Decomposition temperature**: No data available
- **Flammability (solid, gas)**: No data available
- **Vapour pressure**: 225 hPa at 20°C
- **Relative vapour density at 20 °C**: 1.2
- **Relative density**: No data available
- **Solubility**: Water: Soluble in water
- **Log Pow**: No data available
9.2. Other information
No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition generates: Corrosive vapours.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Thermal decomposition generates: Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Acute toxicity: Not classified

Skin corrosion/irritation: Causes severe skin burns and eye damage.
Serious eye damage/irritation: Serious eye damage, category 1, implicit
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified

Reproductive toxicity: Not classified
Specific target organ toxicity (single exposure): May cause respiratory irritation.
Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified
SECTION 12: Ecological information

12.1. Toxicity
No additional information available

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Product/Packaging disposal recommendations: Dispose of contents/container to ...

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number
UN-No. (ADR) : 1789
UN-No. (IMDG) : 1789
UN-No.(IATA) : 1789
UN-No.(ADN) : 1789
UN-No. (RID) : 1789

14.2. UN proper shipping name
Proper Shipping Name (ADR) : HYDROCHLORIC ACID
Proper Shipping Name (IMDG) : HYDROCHLORIC ACID
Proper Shipping Name (IATA) : HYDROCHLORIC ACID
Proper Shipping Name (ADN) : HYDROCHLORIC ACID
Proper Shipping Name (RID) : HYDROCHLORIC ACID
Transport document description (ADR) : UN 1789 HYDROCHLORIC ACID, 8, II, (E)
Transport document description (IMDG) : UN 1789 HYDROCHLORIC ACID, 8, II
Transport document description (IATA) : UN 1789 HYDROCHLORIC ACID, 8, II
Transport document description (ADN) : UN 1789 HYDROCHLORIC ACID, 8, II
Transport document description (RID) : UN 1789 HYDROCHLORIC ACID, 8, II
14.3. Transport hazard class(es)

**ADR**
- Transport hazard class(es) (ADR): 8
- Danger labels (ADR): 8

**IMDG**
- Transport hazard class(es) (IMDG): 8
- Danger labels (IMDG): 8

**IATA**
- Transport hazard class(es) (IATA): 8
- Hazard labels (IATA): 8

**ADN**
- Transport hazard class(es) (ADN): 8
- Danger labels (ADN): 8

**RID**
- Transport hazard class(es) (RID): 8
- Danger labels (RID): 8

14.4. Packing group

- Packing group (ADR): II
- Packing group (IMDG): II
- Packing group (IATA): II
- Packing group (ADN): II
- Packing group (RID): II
### 14.5. Environmental hazards

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### 14.6. Special precautions for user

**- Overland transport**

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<tr>
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<td>Special provision (ADR)</td>
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<td>Excepted quantities (ADR)</td>
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<tr>
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**- Transport by sea**

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<td>Excepted quantities (IMDG)</td>
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<td>IBC packing instructions (IMDG)</td>
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<td>Tank instructions (IMDG)</td>
<td>T8</td>
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<td>Tank special provisions (IMDG)</td>
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<td>EmS-No. (Fire)</td>
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<td>EmS-No. (Spillage)</td>
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**- Air transport**

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<td>PCA limited quantity max net quantity (IATA)</td>
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<td>PCA max net quantity (IATA)</td>
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<td>CAO max net quantity (IATA)</td>
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<td>Special provision (IATA)</td>
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<tr>
<td>ERG code (IATA)</td>
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</table>
HYDROCHLORIC ACID ACIPUR
Safety Data Sheet

- Inland waterway transport
  Classification code (ADN) : C1
  Special provisions (ADN) : 520
  Limited quantities (ADN) : 1 L
  Excepted quantities (ADN) : E2
  Carriage permitted (ADN) : T
  Equipment required (ADN) : PP, EP
  Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : C1
  Special provision (RID) : 520
  Limited quantities (RID) : 1L
  Excepted quantities (RID) : E2
  Packing instructions (RID) : P001, IBC02
  Mixed packing provisions (RID) : MP15
  Portable tank and bulk container instructions (RID) : T8
  Portable tank and bulk container special provisions (RID) : TP2
  Tank codes for RID tanks (RID) : L4BN
  Transport category (RID) : 2
  Colis express (express parcels) (RID) : CE6
  Hazard identification number (RID) : 80

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations
No REACH Annex XVII restrictions
HYDROCHLORIC ACID ACIPUR is not on the REACH Candidate List
HYDROCHLORIC ACID ACIPUR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany
AwSV/VwVwS Annex reference : Water hazard class (WGK) 1, slightly hazardous to water (Classification according to VwVwS, Annex 2; WGK No 238)

Denmark
Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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<tbody>
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<td>Skin Corr. 1B</td>
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<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation</td>
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<tr>
<td>H314</td>
<td>Causes severe skin burns and eye damage</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>R34</td>
<td>Causes burns</td>
</tr>
<tr>
<td>R37</td>
<td>Irritating to respiratory system</td>
</tr>
<tr>
<td>C</td>
<td>Corrosive</td>
</tr>
<tr>
<td>Xi</td>
<td>Irritant</td>
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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.