 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 1
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

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

1.1. Product identifier

Trade name : HYDROCHLORIC ACID AR
Product code : 00172
Identification of the product : Hydrochloric acid
CAS No :7647-01-0
EC No :231-595-7
Annex No :017-002-01-X

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : LOBA CHEMIE PVT.LTD.
107 Wode House Road, Jehangir Villa, Colaba
400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

1.4. Emergency telephone number

Phone nr : + 91 22 6663 6663 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : C; R34
Xi; R37

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)


Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 2
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

2. Hazards identification -DSD (continued)

Symbol(s)



Symbol(s)

: 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.
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).

Contains

: Hydrochloric acid

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms



Signal words

: Danger

Hazard statements

: H314 : Causes severe skin burns and eye damage.
H335 : May cause respiratory irritation.

Precautionary statements

• Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.
P271: Use only outdoors or in a well-ventilated area.
P260: Do not breathe dust, fume, gas, mist, vapours, spray.
P264: Wash thoroughly after handling.

• Response

: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
P363: Wash contaminated clothing before reuse.

• Storage

: P403+P233: Store in well-ventilated place. Keep container tightly closed.
P405: Store locked up.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Contains

: Hydrochloric acid

2.3. Other hazards

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

HYDROCHLORIC ACID AR
MSDS CAS: 007647-01-0

00172

2. Hazards identification -DSD (continued)

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Hydrochloric acid
CAS No :7647-01-0
EC No :231-595-7
Annex No :017-002-01-X
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Hydrochloric acid	100 %	7647-01-0	231-595-7	017-002-01-X	---	C; R34 Xi; R37 Skin Corr. 1B _ H314 STOT SE 3 _ H335

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

Inhalation : Immediately call a POISON CENTER or doctor. Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing.

Skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.

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.

Ingestion : Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

Symptoms relating to use : Causes severe skin burns and eye damage. May cause respiratory irritation.

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


General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 IOBA  Chemie LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 4
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

5. Fire-fighting measures (continued)

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.
Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.
Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For emergency responders** : Equip cleanup crew with proper protection.
Ventilate area.
For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.
Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

- Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use only outdoors or in a well-ventilated area.

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 IOBA  Chemie LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 5
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

7. Handling and storage (continued)

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.
Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
Storage regulation : Comply with applicable regulations.
Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

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

Physical state at 20 °C : Liquid.
Colour : Clear Colorless
Odour : Pungent odor
Odour threshold : No data available.
pH value : Not applicable.
Melting point [°C] : -30 °C
Decomposition point [°C] : N/A
Critical temperature [°C] : N/A

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 6
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

9. Physical and chemical properties (continued)

Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: 110 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 225 hPa at 20 °C
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 1,2
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Soluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: 2.3 mPa.s at 15 °C

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity	: Not established.
------------	--------------------

10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
--------------------	--


10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
---------------------	--------------------

10.4. Conditions to avoid

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 7
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

10. Stability and reactivity (continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
Thermal decomposition generates : Corrosive vapours.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

Corrosion : Causes severe skin burns and eye damage.

Irritation : May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information : Not established.


12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
 Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
 Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 8
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

12. Ecological information (continued)

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.
Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information

14.1. Land transport (ADR-RID)


Proper shipping name : HYDROCHLORIC ACID
UN N° : 1789
H.I. nr : 80
ADR - Class : 8
Labelling - Transport : 8 : Corrosive substance.



ADR - Classification code : C1
ADR - Group : II
ADR - Packing instructions : P001
ADR - Limited Quantity : 1 L

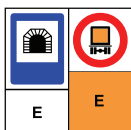
LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 9
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

14. Transport information (continued)

ADR - Tunnel code : E : Passage forbidden through tunnels of category E.



14.2. Sea transport (IMDG) [English only]

Proper shipping name : HYDROCHLORIC ACID
UN N° : 1789
IMO-IMDG - Class or division : 8 : Corrosive substance.
IMO-IMDG - Packing group : II
IMO-IMDG - Packing instructions : P001
IMO-IMDG - Limited quantities : 1 L
IMO-IMDG - Marine pollution : No
EMS-Nr : F-A S-B

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : HYDROCHLORIC ACID
UN N° : 1789
IATA - Class or division : 8 : Corrosive substance.
IATA - Packing group : II
IATA - Passenger and Cargo Aircraft : ALLOWED
- Passenger and Cargo - Packing instruction : 851
- Passenger and Cargo - Maximum Quantity/Packing : 1 L
IATA - Cargo only : ALLOWED
- Cargo only - Packing instruction : 855
- Cargo only - Maximum Quantity/Packing : 30 L
IATA - Limited Quantities : 0.5 L
ERG-Nr : 8L


15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
 Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
 Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com

 IOBA Chemie LABORATORY REAGENTS & FINE CHEMICALS	SAFETY DATA SHEET SDS/MSDS	Page : 10
		Revised edition no : 0
		Date : 14 / 9 / 2012
		Supersedes : 0 / 0 / 0
HYDROCHLORIC ACID AR MSDS CAS: 007647-01-0		00172

15. Regulatory information (continued)

- REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.
REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

- Chemical Safety Assessment** : It has not been carried out.

16. Other information

- Revision** : Revision - See : *
- 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
- List of relevant R phrases (heading 3)** : R34 : Causes burns.
 R37 : Irritating to respiratory system.
- List of full text of H-statements in section 3** : H314 : Causes severe skin burns and eye damage.
 H335 : May cause respiratory irritation.
- 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.

End of document

LOBA CHEMIE PVT.LTD.

107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai INDIA
 Contact: +91 22 6663 6663 / Fax +91 22 6663 6699 / info@lobachemie.com
 Safety Officer: + 91 98213 31336 / + 91 98214 86040 / safety@lobachemie.com