

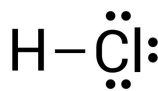
# HYDROCHLORIC ACID 37% AR

□□□□□□□□  
 □□ (EU) 2020/878 □□ □□ □□ REACH □□ (EC) 1907/2006 □□ □□  
 SDS Reference Number: 00172  
 □□ □□□□: 5/18/2023 □□ □□□□: 5/18/2023 □□ □□: 4/12/2016 □□: 1.0

## □□ 1: □□□□□ □□□ □□ □□

### 1.1. □□□□

□□ □□ : □□□  
 □□ □□ : HYDROCHLORIC ACID 37% AR  
 EC □□ □□ : 017-002-01-X  
 EC □□ : 231-595-7  
 CAS □□ : 7647-01-0  
 □□ □□ : 00173  
 □□ □□ : Acids  
 □□ □□ : HCl  
 □□ □□ :



□□ □□ : Hydronium chloride, Chlorhydric acid, Chlorane, Muriatic acid

### 1.2. □□□□ □□ □□□□ □□ □□ □□ □□

□□ □□ □□ : Industrial  
 □□/□□□ □□ □□ : For professional use only  
 □□□□/□□□□ □□ : Laboratory chemicals  
 □□ □□

### 1.3. □□□□□□□□ □□□ □□

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](mailto:info@lobachemie.com), [www.lobachemie.com](http://www.lobachemie.com)

### 1.4. □□□□□□

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

## □□ 2: □□□·□□□

### 2.1. □□□·□□□ □□

**Regulation (EC) No.1272/2008 [CLP]** □□ □□ □□  
 □□ □□□/□□ □□□, □□ 1 H314  
 □□□□□□ □□ - 1□ □□, □□ 3, □□□□ □□ H335  
 □□(H) □□ □ EUH □□ □□: 16□ □□.  
 □□□□□, □□ □□ □ □□□□□□□  
 □□□ □□□ □□□ □ □□. □□□ □□ □□□ □□□ □□□□.

### 2.2. □□□□□□□ □□□ □□□□ □□

□□ (EC) No. 1272/2008 □□ □□ □□ □□[CLP]  
 □□ □□ □□□□(CLP) :





# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## □□ 5: □□□□□□ □□□□

### 5.1. □□□□ □□□

□□□□ □□□ : Carbon dioxide. Dry powder. Foam. Water spray. Water spray.  
□□□□ □□□ : Do not use extinguishing media containing water.

### 5.2. □□□□□□□ □□□ □□ □□□

□□ □ □□□ □□□ □□ : Toxic fumes may be released.

### 5.3. □□□□ □□□□ □ □□□□

□□ □□ □ □□ : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. □□□ □□□□□. Complete protective clothing.

## □□ 6: □□□□□ □□□□

### 6.1. □□□ □□□□ □□ □□□ □□□□ □ □□□

□□□ □□ □□ :  
□□ □□ : Ventilate spillage area. Evacuate unnecessary personnel. □□ □ □□□ □□□ □□□□. □□/□/□□/□ □□/□□/□□□□ □(□) □□□□ □□□.

□□ □□ □□ :  
□□ □□ : Do not attempt to take action without suitable protective equipment. □□□ □□ □□□□ □□□□□. □ □□□ □□□ □□ 8: "□□□□ □ □□□□□"□ □□□□□.  
□□ □□ : Stop release.

### 6.2. □□□ □□□□ □□ □□□ □□□□

□□□□ □□□□ □□□.

### 6.3. □□ □□ □□ □□

□□ □□ : Take up liquid spill into absorbent material. On land, sweep or shovel into suitable containers. □□□ □ □□□□.  
□ □□ □□□□ : Dispose of materials or solid residues at an authorized site.

### 6.4. □□ □□ □□

For further information refer to section 13.

## □□ 7: □□ □ □□□□

### 7.1. □□□□□□

□□□□□□ : □□ □ □□□ □□□ □□□□. Do not breathe vapours. □□ □□ □□□ □ □□ □□□□ □□□□□. □□/ □/□□/□□□/□□/□□□□ □(□) □□□□ □□□. □□ □□□□ □□□□□.  
□□ □□ : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. □□ □□ □ □□□ □□□ □□□□□. □ □□□ □□□ □□□ □□□, □□□□ □□ □□ □□□. Always wash hands after handling the product.

### 7.2. □□□□ □□□ □□□ □□□ □□ □□

□□ □□ : □□□ □□□ □□□□□. □□□ □ □□ □□ □□□□□. □□□□□ □□ □□□□□. □□□□ □□□□□.

### 7.3. □□ □□ □□

□□ □□

# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## □□ 8: □□□□ □□□□□□

### 8.1. □□ □□ □□

□□ □□

### 8.2. □□□□

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□□□ □□□ □□:

Ensure good ventilation of the work station.

□□ □□□

□□ □□ □□ □□:



□□ □□ □□□□

□□□:

Face shield. Safety glasses

#### Skin protection

□□ □□:

Wear a mask

□□□:

Protective gloves

□□ □□ □□

□□□□ □□:

Wear protective clothing

□□□ □□

□□□ □□:

Wear appropriate mask

□□ □□ □□

□□ □□ □□:

□□□□ □□□□ □□□.

## □□ 9: □□□□□ □□

### 9.1. □□□□ □□□□□ □□□ □□ □□

□□□ □□

: □□

□□

: Colourless.

□□

: Clear liquid.

□□□

: 36.46 g/mol

□□

: pungent odor.

□□ □□

: □□□□

□□□

: □□□□

□□□

: -30 °C

□□ □□□□ □□□□ □□

: 110 °C

□□□

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: □□□□

pH

: < 1 at 20°C

# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

□□(□□□) : 1.944 mm<sup>2</sup>/s  
□□(□□□□) : 2.3 mPa·s at 15 °C  
□□□ : □: Miscible in water  
Partition coefficient n-octanol/water (Log Kow) : □□□□  
□□□ : 225 hPa at 20°C  
50°C□□□ □□□ : □□□□  
□□ : 1.183 g/cm<sup>3</sup>  
□□ : □□□□  
20°C□□□ □□ □□ □□ : 1.2  
□□ □□ : □□□□

## 9.2. □□□□□□□□

□□ □□

## □□ 10: □□□□□□□□

### 10.1. □□□

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. □□□□□□

Stable under normal conditions.

### 10.3. □□□□□□□□

No dangerous reactions known under normal conditions of use.

### 10.4. □□□□□□□□

□□□□. Overheating. Open flame. □. Sparks.

### 10.5. □□□□□□□□

□□ □□

### 10.6. □□□□□□□□□□

Thermal decomposition generates : Corrosive vapours.

## □□ 11: □□□□□□□□

### 11.1. □□ (EC) No 1272/2008 □□□□, □□□□□□□□□□

□□ □□ (□□) : □□□□ □□  
□□ □□ (□□) : □□□□ □□  
□□ □□ (□□) : □□□□ □□  
□□ □□□ □□ □□□ : Causes severe skin burns.  
pH: < 1 at 20°C

### HYDROCHLORIC ACID (7647-01-0)

pH < 1

□□ □□ □□ □□□□ : Assumed to cause serious eye damage  
pH: < 1 at 20°C

### HYDROCHLORIC ACID (7647-01-0)

pH < 1

□□□□ □□ □□ □□□ : □□□□ □□  
□□□□ □□□□□ : □□□□ □□  
□□□ : □□□□ □□  
□□□□ : □□□□ □□  
□□ □□□□ □□ (1□ □□) : □□□□ □□□□ □□□□ □□□.



# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

## 14.1. UN □□ □□ ID □□

UN-□□ (ADR) : UN 1789  
UN-□□ (IMDG) : UN 1789  
UN-□□ (IATA) : UN 1789  
UN-□□ (ADN) : UN 1789  
UN-□□ (RID) : UN 1789

## 14.2. UN □□ □□□

□□ □□□ (ADR) : □□□□  
□□ □□□ (IMDG) : HYDROCHLORIC ACID  
□□ □□□ (IATA) : Hydrochloric acid  
□□ □□□ (ADN) : □□□□  
□□ □□□ (RID) : □□□□  
□□ □□ □□ (ADR) (ADR) : UN 1789 □□□□, 8, II, (E)  
□□ □□ □□ (IMDG) : UN 1789 HYDROCHLORIC ACID, 8, II  
□□ □□ □□ (IATA) : UN 1789 Hydrochloric acid, 8, II  
□□ □□ □□ (ADN) : UN 1789 □□□□, 8, II  
□□ □□ □□ (RID) : UN 1789 □□□□, 8, II

## 14.3. □□□□□ □□□ □□

### ADR

□□□□□ □□□ □□ (ADR) : 8  
□□ □□ (ADR) : 8



### IMDG

□□□□□ □□□ □□ (IMDG) : 8  
□□ □□ (IMDG) : 8



### IATA

□□□□□ □□□ □□ (IATA) : 8  
□□ □□ (IATA) : 8



### ADN

□□□□□ □□□ □□ (ADN) : 8  
□□ □□ (ADN) : 8



### RID

□□□□□ □□□ □□ (RID) : 8  
□□ □□ (RID) : 8

# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□



## 14.4. □□□□

□□ □□ (ADR) : II  
□□ □□(IMDG) : II  
□□ □□ (IATA) : II  
□□ □□(ADN) : II  
□□ □□(RID) : II

## 14.5. □□ □□□

□□□ □□ : □□□  
□□□□□□ : □□□  
EmS-No. (□□) : F-A  
EmS-No. (□□) : S-B  
□ □□ □□□□ : □□ □□ □□ □□

## 14.6. □□□□ □□ □□ □□□□

□□ □□ :  
□□ □□ (ADR) : C1  
□□ □□(ADR) : 520  
□□□(ADR) : 11  
□□□(ADR) : E2  
□□ □□(ADR) : P001, IBC02  
□□ □□ □□ □□ □□(ADR) : MP15  
□□□ □□ □□ □□□□ □□ (ADR) : T8  
□□□ □□ □□ □□□□ □□ □□ (ADR) : TP2  
□□ □□(ADR) : L4BN  
□□ □□ □□(ADR) : TU42  
□□ □□□□ □□ : AT  
□□ □□(ADR) : 2  
□□ □□ □□(Kemler □□) : 80  
Orange plates (□□□□□□) :



□□ □□ □□ (ADR) : E  
EAC □□ : 2R

□□ □□

□□ □□(IMDG) : 1 L  
□□□(IMDG) : E2  
□□ □□ (IMDG) : P001  
IBC □□ □□(IMDG) : IBC02  
IBC □□ □□ (IMDG) : B20  
□□ □□ (IMDG) : T8  
□□ □□ □□ (IMDG) : TP2  
□□ □□ (IMDG) : C  
□□(IMDG) : SGG1A, SG36, SG49  
□□□ □□□□ (IMDG) : Colourless liquid. An aqueous solution of the gas hydrogen chloride. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

MFAG-□□ : 157

□□ □□

PCA □□ □□(IATA) : E2  
PCA □□ □□(IATA) : Y840  
PCA □□ □□ □□ □□□(IATA) : 0.5L  
PCA □□ □□(IATA) : 851



# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□ REACH □□ (EC) 1907/2006 □□ □□

PCA □□ □□□(IATA) : 1L  
CAO □□ □□□(IATA) : 855  
CAO □□ □□□(IATA) : 30L  
□□ □□(IATA) : A3, A803  
ERG □□(IATA) : 8L

□□ □□ □□  
□□ □□(ADN) : C1  
□□ □□(ADN) : 520  
□□□(ADN) : 1 L  
□□□(ADN) : E2  
□□□□(ADN) : T  
□□ □□(ADN) : PP, EP  
□□ □□/□□□ □□(ADN) : 0

□□ □□  
□□ □□(RID) : C1  
□□ □□(RID) : 520  
□□ □□(RID) : 1L  
□□□(RID) : E2  
□□ □□ (RID) : P001, IBC02  
□□ □□ □□ □□ □□(RID) : MP15  
□□□□ □□ □□ □□□□ □□ (RID) : T8  
□□□□ □□ □□ □□□□ □□ □□ (RID) : TP2  
RID □□□□ □□ □□(RID) : L4BN  
RID □□□□ □□ □□(RID) : TU42  
□□ □□(RID) : 2  
□□ □□□ : CE6  
□□□□ □□ □□ (RID) : 80

## 14.7. □□□□□□(IMO) □□ □□ □□ □□

□□□□

## □□ 15: □□ □□□□

### 15.1. □□, □□ □□□□ □□□□ □□□□ □□ □□ □□/□□

EU □□

#### REACH □□□ XVII (□□ □□)

REACH □□□ XVII (□□ □□) □□ □□ □□ □□□□ □□

#### REACH □□□ XIV (□□ □□)

REACH □□□ XIV (□□ □□) □□ □□ □□ □□□□ □□

#### REACH □□ □□ □□ (SVHC)

REACH □□ □□ □□ □□ □□ □□□□ □□

#### PIC □□ (□□□□□□)

PIC □□(□□ □□□□ □□□□ □□ □□ EU 649/2012 ) □□ □□ □□ □□□□ □□

#### POP □□ (□□□□ □□ □□□□)

POP □□□ □□□ □□□□ □□ (□□□□□□□□□□ □□ □□ EC 2019/1021)

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### □□□□ □□(428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### □□ □□□□ □□ (2019/1148)

□□□□ □□□□ □□(□□ □□□□□□ □□ □□ □□ □□ □□ EU 2019/1148) □□ □□ □□ □□□□ □□



# HYDROCHLORIC ACID 37% AR

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□□ (EU) 2020/878 □□ □□□□ REACH □□ (EC) 1907/2006 □□ □□

□□ 16: □□ □□□□

□□ □□□□□:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	□□ □□ □
BOD	Biochemical oxygen demand (BOD)
COD	□□□ □□ □□□
DMEL	Derived Minimal Effect level
DNEL	□□ □□□ □□
EC □□	□□ □□□ □□
EC50	Median effective concentration
EN	□□ □□
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	□□□ □□ □□
PBT	Persistent Bioaccumulative Toxic
PNEC	□□ □□□ □□
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	□□□□□□□□
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
COV	Volatile Organic Compounds
CAS □□	□□□□ □□ □□ □□(CAS)
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	□□□ □□□□

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