

Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

### **Section1: Manufacturer and Substance Identification:**

### **CHEMFAB ALKALIS LIMITED**

Gnanananda place Kalapet Puducherry- 605014 India.

CAS #: 7647-01-0

UN # : 1789 HAZCHEM: 2 R Formula: HCl

Molecular mass: 36.45

Emergency Contact number: 0413- 2655111-113

Email: <a href="mailto:chemfabalkalis@drraoholings.com">chemfabalkalis@drraoholings.com</a>

Website: www.chemfabalkalis.com

AMAI CERN NO (Emergency Toll-free no): 1800-11-1735

## **SECTION 2: Composition/Information on ingredients**

### 2.1 Substance

Name	Product Identifier	%
Hydrogen Chloride	CAS No) 7647-01-0	30-32 %

### **SECTION 3: Hazard identification**

HAZCHEM: 2R UN NO:1789







Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

### **SECTION 4: First Aid Measures**

4.1 Description of first aid measures

First aid Measures after inhalation

: Remove to fresh air and keep at rest In a position comfortable for breathing, if not breathing give medical respiration . if breathing is difficult, trained personnel should give oxygen call a physician. WARNING: To avoid possible chemical burns, the rescuer should avoid breathing any exhaled air from the victim

First aid measures after skin contact

: In case of contact ,immediately flush affected Areas with plenty of water 15 Minutes while removing contaminated clothing and shoes. Call physician wash clothing before reuse. Discard contaminated clothes

First aid measure after eye contact

: Immediately flush eyes thoroughly with water at

at least for 1 Minutes

### **SECTION 5: Fire Fighting Measures**

5.1 Extinguishing media

Suitable extinguishing media

: Does not burn .use extinguishing agents Compatible with acid and appropriate for the burning material.

5.2 Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described

5.3 Advice for Fire Fighters

Firefighting instructions : DANGER Toxic Corrosive

Evacuate all personnel from the danger area. Use self –

contained breathing apparatus (SCBA)

and protective clothing. Immediately cool containers

with water from maximum distance.

Stop flow of gas of safe to so while continuing cooling water spray. Remove ignition source If safe to do so. Remove containers from the area of fire if safe do



Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

### **SECTION 6: Accidental Release Measures**

6.1 Personal precautions, protective equipment and emergency procedures

General Measures : DANGER Toxic Corrosive: wear s self - contained

breathing apparatus appropriate equipment's (PPE).(gas tight chemical protective) Evacuate personnel to a safe area. Approach suspected leak area with caution.

Remove all sources of ignition. Toxic, vapor can spread Ventilate area or move area. Before entering the area.

Especially a confined area, check appropriate device.

## **SECTION 7: Handling and Storage**

Personnel Protective equipment

Eyes and Face

Other use Precautions

:Use safety goggles or helmet with full-face

shield. Eye wash or shower in work area is required. Contact lenses should not be worn; they

may contribute to severe eye injury.

Skin : Use apron, or acid/alkali proof suit. Remove

contaminated clothing and shoes, and get medical

Attention immediately

Inhalation : At concentrations up to 50 ppm, chemical charge

air-purifying respirator respirator or recommended. Above this level, a self-contained

breathing apparatus is required.

: Apron, or acid/alkali proof suit, and hand gloves. Protective Clothing

> : Impervious gloves of chemically resistant material (rubber or PVC) should be worn at all times. Wash contaminated clothing with soap and water, dry thoroughly before reuse. Safety helmet with face shield or goggles, and gumboot. Safety shower and

eye wash in the work area.

Handling : Use proper equipment for lifting and transporting

> all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to

harmful exposures

Storage : Store in cool, dry, well ventilated area. Ensure

tankers are adequately marked. Large storage areas should be bounded with dyke wall and store in an area having corrosion resistant concrete floor. Store away from incompatible materials such as oxidizing materials, reducing materials, strong bases Use



Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

proper personnel protective clothing, hand gloves,

face shield or goggles

### **SECTION 8: Exposure Controls/Personal Protection:**

TLV -C (ppm)	2 ppm
OSHAPEL (Ceiling)(mg/m3)	$7 \text{ mg/m}^3$

### **Exposure Controls**

Hand Protection : Rubber gloves

Eye Protection : Eye wash stations and Safety showers, wear safety glasses

Skin and body protection: Chemical gloves wherever contact

Respiratory Protection : SCBA(Self Contained Breathing Apparatus)

# **SECTION 9: Physical and Chemical Properties. (to change the properties as per the product physical state)**

Physical state : Clear, colorless to slightly yellow fuming liquid.

Appearance :Colorless Molecular mass :36.5 g/mol

Color : Colorless. Gives off white fumes in moist air.

Odor :Pungent. Melting point :-114 °C

Boiling Point :86°

Critical Temperature :61.4°C

Auto-ignition temperature :Not applicable. Flammability (solid, gas) :Not Applicable

Vapor pressure :4260 kPa 160 mm of Hg at 30°C

Critical pressure :8310 kPa

Relative vapor density at 20 °C : No data available

Density :1.161 - 1.19 g/cm³ (at 20°C)

Relative gas density :1.3

### **SECTION 10: Stability and Reactivity**



Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

10.1 Chemical Stability : Stable under normal condition

10.2 Possibility of hazardous : May occur

reactions

## **SECTION 11: Toxicological Information.**

: Inhalation: gas: TOXIC IF INHALED. Acute toxicity

### **SECTION 12: Ecological Information**

Ecology – General : No known ecological damage caused by this product

## **SECTION 13: Disposal Consideration:**

Waste Disposal Method

Spill Residues

: Evacuate all non-essential personnel to safe areas, and warn. Don't allow to go near by the personnel to contaminated area. Hazardous concentrations in air may be found in local spill area. Stop source of spill and neutralization with alkaline material (soda ash), or lime stone or lime solution is usually required before disposal.

Do not attempt to dispose of residual or unused

quantities .Return container to supplier.

# **SECTION 14: Transport Information**

Accidental Release Measures : Steps to be taken for spills/leaks: Large spills may be

Neutralized with dilute alkaline solutions of soda ash

or lime.

Water Release : This material is heavier than air and soluble in water .

notify all downstream users of possible

Contamination Divert water flow around spill

Land Spill : Create a dike or trench to contain materials. Spill

> materials may be absorbed using sand, earth, clay or commercial absorbent. Decontaminate all clothing and the spill area and flush with large amounts of water. : Prevent further spillage if possible and safe to do so.

Residues from spill can be diluted with dilute alkaline

solutions of soda ash or lime . Absorb spill using an

absorbent.



Product Name: Hydrochloric acid(HCL)

Revision date: R1- 01/01/2018

## **SECTION 15: Regulatory Information:**

## **Occupational exposure limits**

TLV: 2ppm (ceiling value); TLV (STEL) 7 ppm

### **SECTION 16: Other Information:**

The Information provided in this MSDS is given in good faith and is correct to the best of our knowledge and information at the date of Publication. It is designed only a guidance of safe handling, transportation, use and disposal. No Warranty is expressed or implied.

Contact: Section 1

### Disclaimer:

This document is only controlled while on the Chemfab Alkalis Limited. website and a copy of this controlled version is available for download. Chemfab Alkalis Ltd, cannot assure the integrity or accuracy of any version of this document after it has been downloaded or removed from our website.

### Revision History:

Revision	Effective date	Changed Date