



SAFETY DATA SHEET HYDROCHLORIC ACID >25%

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME HYDROCHLORIC ACID >25%
SYNONYMS, TRADE NAMES Hydrogen Chloride Solution, , Muriatic Acid, , Vo - pH 8120,
SUPPLIER UNIVAR LTD
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2 HAZARDS IDENTIFICATION

Irritating to respiratory system. Causes burns.

CLASSIFICATION C;R34. Xi;R37.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
HYDROCHLORIC ACID ...%	231-595-7	7647-01-0	>25%	C;R34 Xi;R37

The Full Text for all R-Phrases are Displayed in Section 16

EU INDEX NO. 017-002-00-2
EC (EINECS) NO. 231-595-7
CAS-NO. 7647-01-0

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Rinse nose and mouth with water. Get medical attention.

INGESTION

Immediately rinse mouth and drink plenty of water (200-300 ml). Provide rest, warmth and fresh air. Get medical attention immediately!

SKIN CONTACT

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention immediately.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Continue to rinse for at least 15 minutes and get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

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HYDROCHLORIC ACID >25%

SPECIFIC HAZARDS

Hydrogen chloride (HCl).

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Follow precautions for safe handling described in this safety data sheet. Avoid contact with skin and eyes. Provide adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPILL CLEAN UP METHODS

Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Provide good ventilation. Eye wash facilities and emergency shower must be available when handling this product.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined workplace exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HAND PROTECTION

Butyl rubber gloves are recommended.

EYE PROTECTION

Wear approved safety goggles.

OTHER PROTECTION

Wear rubber apron. Wear rubber footwear. Provide eyewash station and safety shower.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Fuming Liquid		
COLOUR	Colourless		
ODOUR	Acidic.		
SOLUBILITY	Soluble in water		
MELTING POINT (°C)	<-29	RELATIVE DENSITY	1.127 - 1.190
pH-VALUE, CONC. SOLUTION	1		

10 STABILITY AND REACTIVITY

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HYDROCHLORIC ACID >25%**STABILITY**

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

Avoid excessive heat for prolonged periods of time.

MATERIALS TO AVOID

Strong alkalis.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen chloride (HCl).

11 TOXICOLOGICAL INFORMATION**INHALATION**

Irritating to respiratory system. May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

INGESTION

Causes burns. Swallowing concentrated chemical may cause severe internal injury. May cause chemical burns in mouth, oesophagus and stomach.

SKIN CONTACT

Causes burns.

EYE CONTACT

Causes burns. Contact with concentrated chemical may very rapidly cause severe eye damage, possibly loss of sight.

MEDICAL SYMPTOMS

Extreme irritation of eyes and mucous membranes, including burning and tearing. Burning sensation in mouth. Sore throat.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

Dangerous for the environment if discharged into watercourses.

LC 50, 96 Hrs, FISH mg/l 100 - 1000

MOBILITY

The product is soluble in water.

BIOACCUMULATION

The product is not bioaccumulating.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Do not puncture or incinerate even when empty.

DISPOSAL METHODS

Confirm disposal procedures with environmental engineer and local regulations.

14 TRANSPORT INFORMATION

UK ROAD CLASS	8		
PROPER SHIPPING NAME	HYDROCHLORIC ACID		
UN NO. ROAD	1789	UK ROAD PACK GR.	II
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.

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ADR PACK GROUP	II	HAZARD No. (ADR)	80
ADR LABEL NO.	8	HAZCHEM CODE	2R
CEFIC TEC(R) NO.	80GC1-II+III	RID CLASS NO.	8
RID PACK GROUP	II	UN NO. SEA	1789
IMDG CLASS	8	IMDG PACK GR.	II
EMS	F-A, S-B	MFAG	See Guide
MARINE POLLUTANT	No.	UN NO. AIR	1789
AIR CLASS	8	AIR PACK GR.	II

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS

HYDROCHLORIC ACID 25%

RISK PHRASES

R34 Causes burns.
R37 Irritating to respiratory system.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations.

APPROVED CODE OF PRACTICE

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

GUIDANCE NOTES

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

16 OTHER INFORMATION

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REV. NO./REPL. SDS GENERATED 05

SDS NO. H017

SAFETY DATA SHEET STATUS

Approved.

DATE 5th February 2007

SIGNATURE Jitendra Panchal

RISK PHRASES IN FULL

R34 Causes burns.
R37 Irritating to respiratory system.