1. Identification

Product Code 1110464

Product Name HYDROCHLORIC ACID 35% w/w A.R.

Molecular Formula HC1 =36.46

CAS Number 7647-01-0

Supplier:



CAMLAB LIMITED

Norman Way Industrial Estate Over Cambridge England

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24hr 112

(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Hydrochloric acid	7647-01-0	231-595-7	35.0%	C : R34,R37	WEL

3. Hazards Identification



Causes burns. Irritating to respiratory system.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash

before re-use. OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give

oxygen if available. If breathing stops or shows signs of failing, apply artificial

resuscitation. If conscious place in a sitting position. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in

the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if

involved in a fire

Extinguishing

Consider what other flammable materials are present and act accordingly.

Unsuitable

Nothing specified.

Media

Media

6. Accidental Release Measures

Personal Avoid breathing vapour. Use approved personal protective equipment. Evacuate area

Protection immediately. Do not allow general use of area until it is safe to do so.

Environmental Keep non-neutralised material out of sewers, storm drains, surface waters and soil. Notify

the Environmental Agency and local Environmental Health Officer if major spillage occurs.

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal.

Wash area down with copious amounts of water.

Minor Spillage Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash area

down with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate

clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended

limits.

Storage Conditions Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

Component	CAS No	Workplace Exposure Limits		Maximum Exposure Limits	
		Long Term Short Term		Long Term	Short Term
		ppm mg m-3	ppm mg m-3	ppm mg m–3	ppm mg m-3
Hydrochloric acid	7647-01-0	1.000 2.000	5.000 8.000		

8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits.

If not, use a well maintained chemical cartridge respirator, or use self contained

breathing apparatus.

Hands Use PVC gauntlets.

Eyes Use chemical splash proof glasses or goggles.

Skin If skin contact or contamination of clothing is likely, protective clothing must be worn.

9. Physical & Chemical Properties

Appearance Colourless fuming liquid.

Odour Pungent and intensely irritating.

pH 1 @ 20 °C
Boiling point 109.0 °C
Melting point 25.0- °C
Flash point Not available
Upper Flammable Limit Not available
Lower Flammable Limit Not available
Auto Ignition Not available

Explosive properties No. Oxidising Properties No.

Vapour Presure 15 mbar @ 20 C Relative Density 1.1700 °C

Water Solubility Completely soluble in water with moderate increase in temperature.

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid No specific conditions.

Materials to Avoid Alkalis. Potassium permanganate. Reacts with most metals to produce extremely flammable

hydrogen gas.

Hazardous Will decompose to emit toxic and irritant fumes of hydrogen chloride.

Decomposition Products

11. Toxicological Information

Eyes Both the vapour and liquid are, be extremely irritating to eyes and can cause chemical eye

burns.

Skin The liquid or concentrated vapour will cause burns. Severe ulceration and scarring may

occur in serious cases. Repeated exposure may cause dermatitis.

LD50 Skin Not available

oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing, pain, shock

and vomiting.

LD50 Ingest Not available

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce

irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour will seriously damage the membranes lining the nose, throat and upper respiratory tract.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information 5-10ppm is the threshold for irritation with severe irritation occurring at 50-100 ppm.

12. Ecological

Neutralised material presents no specific environmental hazard. Dangerous to aquatic organism: causes damage to crops and vegetables.

13. Disposal Considerations

Disposal Methods Dilute in a large excess of water and carefully neutralise with soda ash, then wash to

drain with copious amounts of water.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name Hydrochloric Acid

UN Number 1789

UN Classification 8 Corrosive

Subsidiary Risk None

Flash Point Not available

Packing Group II
Transport Category 2
Marine pollutant No
ADR Hazard ID 80



15. Regulatory Information

Labelling Corrosive.

Classification

Label Symbols



Risk & safety Phrases Causes burns. Irritating to respiratory system. Keep locked up and out of reach of

children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. In case of accident or if you feel unwell, seek medical advice immediately

(show the label).

EEC Number 231-595-7

16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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