Camlab Limited - Material Safety Data Sheet

1111521

1. Identification

1111521 Product Code

HYDROCHLORIC ACID 5% w/w pure Product Name

HC1 = 36.46Molecular Formula

7647-01-0 CAS Number

Supplier:



CAMLAB LIMITED

Norman Way Industrial Estate Over Cambridge England CB4 5WE

01954 233110 Phone 01954 233101 Fax

01954 233110 08:00-17:00 Emergency Telephone

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	5.0%	R34,R37	WEL

3. Hazards Identification

Not considered harmful

4. First Aid Measures

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

OBTAIN MEDICAL ATTENTION.

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

before re-use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water.

5. Fire Fighting Measures

Presents no specific fire danger.

Extinguishing

Media

Consider what other flammable materials are present and act accordingly.

Unsuitable

Nothing specified.

Media

6. Accidental Release Measures

Use approved personal protective equipment. Evacuate area immediately. Do not allow general Personal Protection

use of area until it is safe to do so.

Enviromental 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.

6. Accidental Release Measures (continued)

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 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 Expos	sure 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 Wear gloves.

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 Clear colourless liquid.

Odour Odourless. pH 1 @ 20 °C Boiling point Aqueous so

Boiling point Aqueous solution
Melting point Aqueous solution
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 Not available Relative Density 1.0228 °C

Water Solubility Completely miscible in water.

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 The liquid may be irritating to the eyes.

Skin Presents no significant hazard by skin contact.

LD50 Skin Not available

Ingest Presents no significant hazard by ingestion.

LD50 Ingest Not available

Inhalation Presents no significant health hazard by inhalation.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

12. Ecological

No specific environmental hazard.

13. Disposal Considerations

Disposal Methods Neutralise with lime water or sodium hydroxide prior to disposal. Flush to drain.

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

14. Transport Information

Proper Shipping Name Non-restricted UN Number Non-restricted

UN Classification None Subsidiary Risk None

Flash Point Not available

Packing Group None
Transport Category None
Marine pollutant No

ADR Hazard ID Non-restricted

15. Regulatory Information

Labelling None

Classification
Label Symbols

None

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Risk & safety Phrases Keep out of reach of children. After contact with skin, wash immediately with plenty of

water.

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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