# Camlab Limited - Material Safety Data Sheet

1111513

### 1. Identification

1111513 Product Code

HYDROCHLORIC ACID 5.0M (5N) A.R. Product Name

HC1 = 36.46Molecular Formula

7647-01-0 CAS Number

Supplier:

CAMLAB LIMITED

Norman Way Industrial Estate Over Cambridge England

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CB4 5WE

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	18.0%	Xi : R34,R37	WEL

### 3. Hazards Identification



Irritating to eyes, respiratory system and skin.

### 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. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY.

## 5. Fire Fighting Measures

Presents no specific fire danger.

Extinguishing Consider what other flammable materials are present and act accordingly.

Media

Unsuitable Nothing specified.

Media

# 6. Accidental Release Measures

Personal Use approved personal protective equipment. Evacuate area immediately. Do not allow general 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 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 nitrile gloves or 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 Clear colourless liquid.

Odour Odourless.
pH 1 @ 20 °C
Boiling point 108.6 °C
Melting point 55.0- °C

Flash point

Flash point

Upper Flammable Limit

Lower Flammable Limit

Auto Ignition

Not available

Not available

Explosive properties No. Oxidising Properties No.

Vapour Presure Not available Relative Density 1.0820 °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 is irritating to the eyes but unlikely to cause serious injury.

Skin The liquid will be an irritant on brief or occasional exposure. May cause burns on

prolonged contact.

LD50 Skin Not available

damage to the oesophagus. Symptoms may include salivation, thirst, difficulty in swallowing,

pain, shock and vomiting.

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.

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.

### 13. Disposal Considerations

drain with copious amounts of water.

Contaminated Packaging Carefully neutralise with a weak sodium hydroxide solution then wash out thoroughly 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 Irritant.

Classification

Label Symbols Xi



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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