Camlab Limited - Material Safety Data Sheet

1. Identification

Product Code CC/0358-CO

Product Name HYDROBROMIC ACID 50% w/w pure

Molecular Formula HBr =80.91

CAS Number 10035-10-6

Supplier:



CAMLAB LIMITED

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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)
Hydrobromic acid	10035-10-6	233-113-0	50.0%	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 URGENTLY.

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

Dry chemical powder.

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 Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. 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

Workplace Exposure Limits Long Term (8hr TWA): - ppm - mg m-3 Short Term (15min Period): 3.000 ppm 10.00 mg m-3

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 Clear colourless to pale yellow fuming liquid.

Odour Pungent and intensely irritating.

pH 1 @ 20 °C
Boiling point 126.0 °C
Melting point Not available
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 8 mbar @ 20 C Relative Density 1.4900 °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. Strong oxidising agents. Reacts with most metals to produce extremely flammable

hydrogen gas. Ammonia, fluorine, iron oxide fume, ozone and selenium dioxide.

Hazardous May decompose to emit toxic and irritant fumes of hydrogen bromide.

Decomposition Products

11. Toxicological Information

Eyes The vapour is be extremely irritating to eyes and can cause chemical eye burns. Damage can

range from severe irritation and corneal scarring to permanent blindness.

Skin The vapour will cause severe burns. Severe ulceration and scarring may occur in serious

cases. The liquid is irritating to the skin. 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.

12. Ecological

Neutralised material presents no specific environmental hazard.

13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

3 y 3 c e ma

Contaminated Packaging Use a licensed waste disposer. Carefully neutralise with a weak sodium hydroxide solution

then wash out thoroughly with water.

14. Transport Information

Proper Shipping Name Hydrobromic acid

UN Number 1788

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. Keep container tightly closed and in a well ventilated place. 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 233-113-0

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.

Revision Date: 19/11/03.

Data reviewed and PDF file generated: 17/03/10.

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