## 1. Identification

Product Code 1110395

Product Name CHLOROFORM pure

Molecular Formula CHCl<sub>3</sub> =119.38

CAS Number 67-66-3

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)
Chloroform	67-66-3	200-6638	> 99.5%	Xn : R22,R38,R40,R48/20/22	WEL
				:Carc.Cat 3	

### 3. Hazards Identification



Harmful if swallowed. Irritating to skin. Limited evidence of carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Carcinogen category: 3

# 4. First Aid Measures

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

OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and

wash before re-use. Unless contact has been slight 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 unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION

URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty

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

Media

Consider what other flammable materials are present and act accordingly. Use water spray to

keep fire exposed containers cool.

Unsuitable

Media

Do not use water jet.

#### 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. Beware : vapour is

heavier than air and will tend to accumulate at low spots.

Environmental Keep 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 detergent and copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow

solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste.

Wash area down with detergent and 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 . Protect from direct sunlight. Protect against moisture

to prevent decomposition and corrosion.

# 8.1 Workplace Exposure Limits

Workplace Exposure Limits Long Term (8hr TWA): 2.000 ppm 9.900 mg m-3

Short Term (15min Period): - ppm - mg m-3

Special Hazards Can be absorbed through skin.

#### 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 organic vapour respirator, or use self

contained breathing apparatus.

Hands Use solvent resistant gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

### 9. Physical & Chemical Properties

Appearance Clear colourless liquid.

Odour Pleasant sweet odour.

pH Not available
Boiling point 62.0 °C
Melting point 64.0- °C
Flash point Not available

Flash point

Upper Flammable Limit

Lower Flammable Limit

Not available

Auto Ignition

Not available

Explosive properties No. Oxidising Properties No.

Vapour Presure 159 mmHg @ 20,C

Relative Density 1.4850 °C Water Solubility 0.82%

### 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces and naked flames.

# 10. Stability & Reactivity (continued)

Materials to Avoid May react violently with sodium, magnesium and other alkali and alkaline earth metals.

Prolonged contact with aluminium and light alloys may cause gas generation and pressure

build up.

Hazardous

Contact with red hot surfaces, sparks or naked flames may generate toxic acid fumes of

Decomposition Products phosgene and hydrogen chloride.

### 11. Toxicological Information

Eyes Both the vapour and liquid will, irritate the eyes and can cause conjunctivitis. More

irritating to the eyes than most common solvents.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis.

Unlikely to be absorbed across the skin in harmful amounts.

LD50 Skin Not available

Ingest Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Ingestion may

cause liver and kidney damage.

LD50 Ingest Oral Rat 908 mg/kg

Inhalation High concentrations of vapour will effects the central nervous system resulting in Large

amounts may cause sensitive individuals to cough. Prolonged exposure to vapour

concentrations above the occupational exposure limits may result in unconsciousness and can cause cardiac sensitisation which may prove suddenly fatal. Liver and kidney damage may

also occur.

Carcinogenicity Carcinogen - category 3. Has been found to be carcinogenic to rats and mice. It is

suspected as a long term carcinogen in man but evidence is inconclusive.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Chloroform is teratogenic to rats and mice, and highly foetotoxic in rat inhalation

studies. Has been implicated in similar disorders in humans. Pregnant and nursing mothers

should avoid contact.

Other Information Acts as an anaesthetic. First symptoms of lightheadedness occur within a few minutes at

1000ppm.

#### 12. Ecological

Unlikely to bio-accumulate. High concentrations are toxic to aquatic life.

#### 13. Disposal Considerations

waste.

Contaminated Packaging Use a licensed waste disposer.

# 14. Transport Information

Proper Shipping Name Chloroform UN Number 1888 UN Classification 6.1 Toxic Subsidiary Risk None

Flash Point Not available

Packing Group III
Transport Category 2
Marine pollutant No
ADR Hazard ID 60



# 15. Regulatory Information

Labelling Classification Harmful.

Label Symbols

X



Risk & safety Phrases

Harmful if swallowed. Irritating to skin. Limited evidence of carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed. Keep out of reach of children. Wear suitable protective clothing and gloves. Carcinogen category: 3

EEC Number 200-6638

## 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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