# Camlab Limited – Material Safety Data Sheet

#### 1. Identification

CC/2919-CO Product Code

iso-PENTANE Product Name

78-78-4 CAS Number

Supplier:



CAMLAB LIMITED

Norman Way Industrial Estate Over

Cambridge England CB4 5WE

01954 233110 Phone Fax 01954 233101

Emergency Telephone 08:00-17:00 01954 233110

> 24hr 112 (Have this document to hand)

## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
iso-Pentane	78-78-4	201-142-8	> 99.0%	F+ : R12	WEL

#### 3. Hazards Identification



Extremely flammable.

### 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. 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. Vapour-air mixtures are

explosive.

Foam, dry powder, carbon dioxide or vaporising liquids. Use water spray to keep fire Extinguishing Media

exposed containers cool.

Unsuitable Do not use water jet.

Media

#### 6. Accidental Release Measures

Personal Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Protection equipment. Evacuate area 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 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 copious amounts of water.

## 7. Storage & Handling

Handling Precautions All transfer systems should be earthed to prevent accumulation of static electricity. 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 sun and store away from sources of

ignition. Keep containers closed when not in use. Keep well separated from oxidising agents. Large quantities must be stored in accordance with the Petroleum Spirits Act.

## 8.1 Workplace Exposure Limits

Workplace Exposure Limits Long Term (8hr TWA): 600.0 ppm 1800 mg m-3 Short Term (15min Period): - ppm - 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 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 Characteristic.
pH Not available
Boiling point 26.0 °C
Melting point 158.0 °C

Flash point 56.0- °C(Closed cup)

Upper Flammable Limit 7.6 % Lower Flammable Limit 1.3 % Auto Ignition 420.0 °C

Explosive properties Severe in confined spaces.

Oxidising Properties No.

Vapour Presure 400 mmHg @ 20,C

Relative Density 0.6250

Water Solubility Insoluble in water.

## 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

Materials to Avoid Strong oxidising agents.

## 10. Stability & Reactivity (continued)

Hazardous None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Decomposition Products

## 11. Toxicological Information

Eyes Both the vapour and liquid will, act as an eye irritant.

Skin The liquid is mildly irritating to the skin. Repeated or prolonged contact may defat the

skin producing irritation and dermatitis.

LD50 Skin Not available

Ingest Ingestion will cause irritation of the throat with nausea and vomiting, unconsciousness may

develop in extreme cases.

LD50 Ingest Not available

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

irritation of the eyes and respiratory tract. High concentrations of vapour may cause

narcosis. Symptoms include drowsiness, mental confusion and unconsciousness.

Carcinogenicity No information is available.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information Used in the food industry.

#### 12. Ecological

Moderately toxic to mammals, fish and bacteria.

## 13. Disposal Considerations

Disposal Methods Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic

waste. Never dispose of into water courses or sewerage systems due to high risk of

 ${\tt explosion.}$ 

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

 ${\tt explosion.}$ 

### 14. Transport Information

Proper Shipping Name Pentanes

UN Number 1265

UN Classification 3 Flammable liquid

Subsidiary Risk None

Flash Point 56.0- °C(Closed cup)

Packing Group I
Transport Category 1
Marine pollutant No



## 15. Regulatory Information

Labelling Extremely Flammable.

Classification

ADR Hazard ID

Label Symbols F-



## 15. Regulatory Information (continued)

Risk & safety Phrases Extremely flammable. Keep container tightly closed in a cool place. Keep container in a

well ventilated place. Keep away from sources of ignition - No Smoking. Do not empty in to drains. Take precautionary measures against static discharges.

EEC Number 201-142-8

### 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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