

Camlab Limited – Material Safety Data Sheet


1. Identification

Product Code CC/2919-CO

Product Name **iso-PENTANE**

CAS Number 78-78-4

Supplier: **CAMLAB LIMITED**

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(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

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

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

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

Unsuitable Media Do not use water jet.

6. Accidental Release Measures

Personal Protection	Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective 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 Pressure	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 explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of 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
ADR Hazard ID 33



15. Regulatory Information

Labelling Extremely Flammable.
Classification

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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