

# Camlab Limited – Material Safety Data Sheet

## 1. Identification


Product Code CC/2620-DH

Product Name **n-HEXANE (fraction from petroleum)**

Molecular Formula **CH<sub>3</sub>(CH<sub>2</sub>)<sub>4</sub>CH<sub>3</sub> =86.18**

CAS Number 110-54-3

Supplier: **CAMLAB LIMITED**



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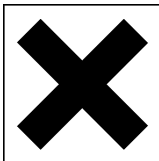
Fax 01954 233101

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)
n-Hexane	110-54-3	203-777-6	> 95.0%	F Xn N : R11,R38,R48/20,R51/53,R62, R65,R67	WEL

## 3. Hazards Identification



Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness.

## 4. First Aid Measures

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

**Skin** Thoroughly wash off skin with soap and 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.

## 5. Fire Fighting Measures (continued)

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

Component	CAS No	Workplace Exposure Limits				Maximum Exposure Limits			
		Long Term		Short Term		Long Term		Short Term	
		ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>	ppm	mg m <sup>-3</sup>
n-Hexane	110-54-3	20.00	72.00	-	-	-	-	-	-

**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** Characteristic.

**pH** Not available

**Boiling point** 69.0 °C

**Melting point** 95.6- °C

**Flash point** 22.0- °C(Closed cup)

**Upper Flammable Limit** 7.5 %

**Lower Flammable Limit** 1.2 %

**Auto Ignition** 223.0 °C

**Explosive properties** Severe in confined spaces.

**Oxidising Properties** No.

**Vapour Pressure** 100 mmHg @ 20,C

**Relative Density** 0.6600

## 9. Physical & Chemical Properties (continued)

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.

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. Chronic exposure can lead to loss of sensation in hands and feet and has been linked with neurotoxic effects, progressing for several months following exposure, followed by slow recovery.

Carcinogenicity No information is available.

Mutagenicity May be a mutagen.

Reproductive Effects None identified.

## 12. Ecological

Moderately toxic to mammals, fish and bacteria. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

## 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

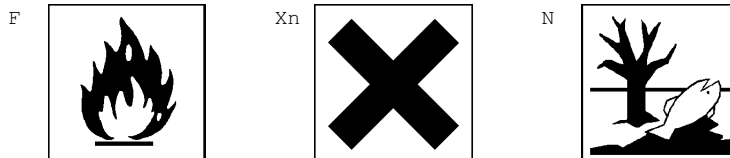
Proper Shipping Name Hexanes  
UN Number 1208  
UN Classification 3 Flammable liquid  
Subsidiary Risk None  
Flash Point 22.0- °C(Closed cup)  
Packing Group II  
Transport Category 2  
Marine pollutant No  
ADR Hazard ID 33



## 15. Regulatory Information

Labelling Classification Highly Flammable, Harmful, Dangerous for the Environment.

Label Symbols



Risk & safety Phrases Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Possible risk of impaired fertility. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Keep out of reach of children. 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. Wear suitable protective clothing and gloves.

EEC Number 203-777-6

## 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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