

Camlab Limited – Material Safety Data Sheet

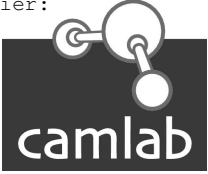
1. Identification

Product Code CC/2167-CO

Product Name **n-HEXANE pure**

Molecular Formula **CH₃(CH₂)₄CH₃ =86.18**

CAS Number **110-54-3**

Supplier: **CAMLAB LIMITED**
**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

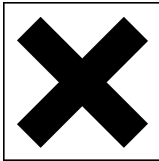
Phone **01954 233110**
Fax **01954 233101**

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

Workplace Exposure Limits	Long Term (8hr TWA):	20.00	ppm	72.00	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 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

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

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.
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Label Symbols

F		Xn		N	
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15. Regulatory Information (continued),S16,S29,S33,S36/37

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	<p>This document has been prepared in accordance with directive 88/379/EEC.</p> <p>The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.</p> <p>Revision Date: 19/11/03. Data reviewed and PDF file generated: 19/07/07. Copyright 2007 Camlab Limited.</p>
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