

# Camlab Limited – Material Safety Data Sheet

## 1. Identification


Product Code CC/2156-DH

Product Name **n-HEPTANE pure**

Molecular Formula **CH<sub>3</sub>(CH<sub>2</sub>)<sub>5</sub>CH<sub>3</sub> =100.20**

CAS Number **142-82-5**

Supplier: **CAMLAB LIMITED**

 **Norman Way Industrial Estate  
Over  
Cambridge  
England  
CB4 5WE**

Phone **01954 233110**

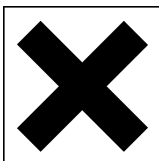
Fax **01954 233101**

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-Heptane	142-82-5	205-563-8	> 97.5%	F Xn N : R11,R38,R50/53,R65,R67	WEL

## 3. Hazards Identification



Highly flammable. Irritating to skin. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. 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. 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):	500.0 ppm	-	mg m-3
	Short Term (15min Period):	-	-	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	98.5 °C
Melting point	90.5- °C
Flash point	4.0- °C(Closed cup)
Upper Flammable Limit	6.7 %
Lower Flammable Limit	1.0 %
Auto Ignition	204.0 °C
Explosive properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	40 mmHg @ 20,C
Relative Density	0.6830
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 The vapour may be irritating to the eyes.  
Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis.  
LD50 Skin Not available  
Ingest Low order of acute toxicity.  
LD50 Ingest Oral rat 15g/kg  
Inhalation High concentrations of vapour may produce central nervous system depression and unconsciousness.  
Carcinogenicity No information is available.  
Mutagenicity Not considered to be a mutagen.  
Reproductive Effects None identified.

## 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 Heptanes  
UN Number 1206  
UN Classification 3 Flammable liquid  
Subsidiary Risk None  
Flash Point 4.0- °C(Closed cup)  
Packing Group II  
Transport Category 2  
Marine pollutant No  
ADR Hazard ID 33



## 15. Regulatory Information

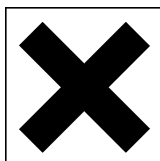
Labelling Highly Flammable, Harmful, Dangerous for the Environment.  
Classification

Label Symbols

F



Xn



N



## 15. Regulatory Information (continued)3,S60,S61,S62

Risk & safety Phrases	Highly flammable. Irritating to skin. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. 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. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet. If swallowed, do not induce vomiting; seek medical advice immediately and show this label/container.
EEC Number	205-563-8

## 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: 26/05/06. Data reviewed and PDF file generated: 19/07/07. Copyright 2007 Camlab Limited.</p>
----------------------	--