

1. Identification

Product Code **CP1924-16**

Product Name **PENTAN-3-ONE pure**

Molecular Formula $(C_5H_{10})_2CO = 86.13$

CAS Number 96-22-0

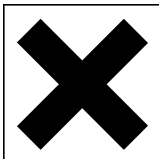
Supplier:  **BEECROFT & PARTNERS**
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Rotherham
South Yorkshire

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24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Pentan-3-one	96-22-0	202-490-3	> 99.0%	F Xi : R11,R37,R66,R67	OES

3. Hazards Identification

Highly flammable. Irritating to respiratory system. Repeated exposure may cause skin dryness or cracking. 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.

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 Water spray, foam, dry powder or carbon dioxide. 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	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.

8.1 Occupational Exposure Limits

Occupational Exposure Standard	Long Term (8hr TWA):	200	ppm	700	mg m-3
	Short Term (15min Period):	250	ppm	875	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	Sharp, fragrant, acetone like odour.
pH	Not available
Boiling point	102.0 °C
Melting point	-39.0 °C
Flash point	13.0 °C (Closed cup)
Upper Flammable Limit	7.7%
Lower Flammable Limit	1.6%
Auto Ignition	445.0 °C
Explosive properties	Moderate/severe in confined spaces.
Oxidising Properties	Soluble in cold water and very soluble in hot water.
Vapour Pressure	38 hpa @ 20 C
Relative Density	0.8100
Water Solubility	Moderately soluble 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. Sulphuric acid. Nitric acid. Alkalis.

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 may, produce conjunctival irritation and corneal damage.

Skin Unlikely to be an irritant on brief or occasional exposure. Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Unlikely to be absorbed across the skin in harmful amounts.

LD50 Skin Not available

Ingest Low order of acute toxicity. Ingestion of large amounts will produce gastrointestinal irritation, and central nervous system depression, leading to unconsciousness. Aspiration during swallowing or vomiting may injure lungs.

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 produce central nervous system depression and unconsciousness.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects No information is available.

12. Ecological

No information is available.

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 Diethyl ketone
UN Number 1156
UN Classification 3 Flammable liquid
Subsidiary Risk None
Flash Point 13.0 °C (Closed cup)
Packing Group II
Marine pollutant No
ADR Hazard ID 33



15. Regulatory Information

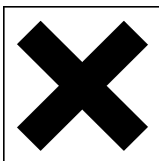
Labelling Highly Flammable, Irritant.
Classification

Label Symbols

F



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15. Regulatory Information (continued)

Risk & safety Phrases	Highly flammable. Irritating to respiratory system. Repeated exposure may cause skin dryness or cracking. 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. Avoid contact with eyes. Take precautionary measures against static discharges.
EEC Number	202-490-3

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. Revision Date: 18/11/03. Data reviewed and PDF file generated: 07/06/04. Copyright 2004 Beecroft & Partners.
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