

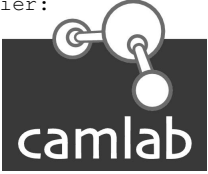
1. Identification

Product Code **1110304**

Product Name **ACETALDEHYDE pure**

Molecular Formula **CH₃CHO =44.05**

CAS Number **75-07-0**

Supplier: **CAMLAB LIMITED**

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Over
Cambridge
England
CB4 5WE

Phone **01954 233110**

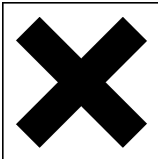
Fax **01954 233101**

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)
Acetaldehyde	75-07-0	200-836-8	> 99.0%	F+ Xn : R12,R36/37,R40 :Carc.Cat 3	WEL

3. Hazards Identification



Extremely flammable. Irritating to eyes and respiratory system. Limited evidence of carcinogenic effect. Carcinogen category: 3

4. First Aid Measures

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

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If discomfort persists 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 Water spray, alcohol resistant 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.
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. Neutralise spill with soda ash, lime, calcium carbonate or sodium bicarbonate. Wash to drain 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.

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	20.00 ppm	37.00 mg m ⁻³
	Short Term (15min Period):	50.00 ppm	92.00 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 PVC gauntlets.
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	Pungent fruity odour.
pH	Not available
Boiling point	20.8 °C
Melting point	123.5- °C
Flash point	27.0- °C(Closed cup)
Upper Flammable Limit	60.0 %
Lower Flammable Limit	4.0 %
Auto Ignition	185.0 °C
Explosive properties	Severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	740 mmHg @ 20 C
Relative Density	0.7827
Water Solubility	Completely miscible 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	Acids. Alkalis. Reacts violently with many oxygenated organic compounds, eg. alcohols, ketones, phenols, anhydrides etc.

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 will cause severe irritation. The liquid is be extremely irritating to eyes and can cause chemical eye burns.

Skin The liquid is irritating to the skin. Repeated exposure may cause dermatitis. May cause skin sensitisation.

LD50 Skin Not available

Ingest Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.

LD50 Ingest Oral Rat 1930 mg/Kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes lining the nose, throat and upper respiratory tract.

Carcinogenicity Carcinogen - category 3. Has been found to be carcinogenic to rats and mice. It is suspected as a long term carcinogen in man but evidence is inconclusive.

Mutagenicity A mutagen.

Reproductive Effects Some evidence for foetotoxicity and tetragenecity has been observed in experimental animals

Other Information The irritant effect provides warning that control of exposure is needed.

12. Ecological

No specific environmental hazard.

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 Acetaldehyde
UN Number 1089
UN Classification 3 Flammable liquid
Subsidiary Risk None
Flash Point 27.0- °C(Closed cup)
Packing Group I
Transport Category 1
Marine pollutant No
ADR Hazard ID 33



15. Regulatory Information

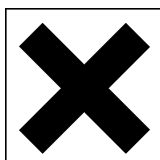
Labelling Extremely Flammable, Harmful.
Classification

Label Symbols

F+



Xn



15. Regulatory Information (continued)

Risk & safety Phrases Extremely flammable. Irritating to eyes and respiratory system. Limited evidence of carcinogenic effect. Keep out of reach of children. Keep away from sources of ignition - No Smoking. Take precautionary measures against static discharges. Wear suitable protective clothing and gloves. Carcinogen category: 3

EEC Number 200-836-8

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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