Camlab Limited - Material Safety Data Sheet

1. Identification

CC/0427-EH Product Code

METHANOL pure Product Name

 $CH_3OH = 32.04$ Molecular Formula

67-56-1 CAS Number

Supplier:



CAMLAB LIMITED

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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)
Methanol	67-56-1	200-659-6	> 99.5%	F T : R11,R23/24/25,R39/23/24/25	WEL

3. Hazards Identification





Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation and if swallowed

4. First Aid Measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the

eve open. OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash

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

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 Water spray, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep Media

fire exposed containers cool.

Unsuitable

Do not use water jet.

Media

6. Accidental Release Measures

Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective Personal Protection

equipment. Evacuate area immediately. Do not allow general use of area until it is safe to

do so.

Enviromental Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Major Spillage

Wash area down with copious amounts of water.

Contain and absorb on inert material. Transfer absorbent to container for removal. Allow Minor Spillage

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

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

8.1 Workplace Exposure Limits

Workplace Exposure Limits 266.0 Long Term (8hr TWA): 200.0 ppm mam-3Short Term (15min Period): 250.0 333.0 mg m-3 ppm

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.

Avoid contact with skin. If skin contact or contamination of clothing is likely, protective Skin

clothing must be worn.

9. Physical & Chemical Properties

Clear colourless liquid. Appearance Odour Fresh and characteristic.

рН Not available

Boiling point 64.8 °C 97.8- °C Melting point

Flash point 12.0 °C(Closed cup)

Upper Flammable Limit 36.5 % Lower Flammable Limit 6.0 % Auto Ignition 385.0 °C

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.

100 mmHg @ 20,C Vapour Presure

Relative Density 0.7900

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 Bromine. Sodium hypochlorite, diethyl zinc, dialkylaluminium solutions, and phosphorous

trioxide. Nitric acid, hydrogen peroxide, sodium and chloroform and potassium tertiary

butoxide. Lead perchlorate.

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

Decomposition Products

11. Toxicological Information

Eyes Both the vapour and liquid are, very dangerous to the eyes since methanol has a specific

effect on the optic nerve and retina.

Skin Repeated exposure may cause dermatitis. Many of the effects typical of the vapour can

result from absorbtion through the skin.

LD50 Skin Rabbit 20g/Kg

irritability. After a latent period of 10-15 hours more serious damage to the central nervous system especially to the optic nerve occurs. Even if death does not occur permanent

blindness may occur.

LD50 Ingest Oral Rat 13g/kg

Inhalation Exposure to vapour concentrations above the occupational exposure limits may cause headache,

nausea, vomiting and irritation of the mucous membranes. High concentrations of vapour may damage the central nervous system and cause blindness. Due to the slow metabolism of the toxic metabolites formic acid and formaldehyde the effects can be cumulative and continued

exposure to low levels may cause the above effects.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects High vapour concentrations (10000 ppm) caused increased congenital malformations.

12. Ecological

Substantially biodegradable in water, biological oxygen demand (B.O.D.) 5 day 70%. No evidence of inhibition to the aerobic treatment process at 39500mg/l but evidence of inhibition occurs at concentrations greater than 79000mg/l.

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 Methanol UN Number 1230

UN Classification 3 Flammable liquid

Subsidiary Risk 6.1 Toxic

Flash Point 12.0 °C(Closed cup)

Packing Group II
Transport Category 2
Marine pollutant No
ADR Hazard ID 336





15. Regulatory Information

Labelling Classification

Highly Flammable, Toxic.

Label Symbols



T

Risk & safety Phrases

Highly flammable. Toxic by inhalation, in contact with skin and if swallowed. Harmful: possible risk of irreversible effects through inhalation and if swallowed Keep locked up and out of reach of children. Keep container tightly closed. Keep away from sources of ignition - No Smoking. Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label).

EEC Number 200-659-6

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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