# Camlab Limited – Material Safety Data Sheet

1110447

#### 1. Identification

Product Code 1110447

Product Name FORMALDEHYDE SOLUTION 40% w/v pure

Molecular Formula HCHO =30.03

CAS Number 50-00-0

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)
Formaldehyde	50-00-0	200-001-8	36.6%	T : R23/24/25,R34,R40,R43	WEL
				:Carc.Cat 3	
Methanol	67-56-1	200-659-6	7.3%	T : R11,R23/24/25,R39/23/24/25	WEL

## 3. Hazards Identification



Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Limited evidence of carcinogenic effect. May cause sensitisation by skin contact. 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.

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

before re-use. Unless contact has been slight 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

 ${\tt URGENTLY.}$ 

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. Convulsions may occur

and cause unconsciousness. 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, dry powder or carbon dioxide. Use water spray to keep 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.

Minor Spillage Contain and absorb on inert material. Neutralise with a 5% ammonia solution. Transfer

absorbent to container for removal and disposal 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	Long Term (8hr TWA): Short Term (15min Period):	2.000		mg m-3 mg m-3
Maximum Exposure Limits	Long Term (8hr TWA): Short Term (15min Period):	2.000		mg m-3 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.

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 Pungent and intensely irritating.

3 @ 20 °C рН 96.0 °C Boiling point Melting point Not available Flash point 69.0 °C(Closed cup)

Upper Flammable Limit 72.0 % 7.0 % Lower Flammable Limit. Auto Ignition 300.0 °C

Explosive properties Moderate/severe in confined spaces.

Oxidising Properties No.

1.3 mm Hg @ 20 C Vapour Presure

Relative Density 1.0930

Water Solubility Completely soluble in water.

## 10. Stability & Reactivity

hemical Stability Stable under normal conditions

Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

Materials to Avoid Strong oxidising agents. Hydrochloric acid.

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

Decomposition Products

#### 11. Toxicological Information

Eyes The liquid is be extremely irritating to eyes and can cause chemical eye burns. At 4ppm

there may be lacrimation; at 10-20 ppm there is burning of the eyes and intense

lacrimation; at 50-100ppm eye burns can be produced.

Skin Repeated exposure may cause dermatitis. Skin penetration is possible. May cause skin

sensitisation.

LD50 Skin Rabbit 270 mg/Kg

Ingest Causes immediate irritation of the mouth, throat and gastro-intestinal tract. Ingestion may

prove fatal.

LD50 Ingest Rat 800mg/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 will severe difficulty in breathing, burning of the nose and intense cough.

Carcinogenicity Carcinogen - category 3. Epidemiological studies of workers exposed to formaldehyde is

inconclusive however cancers and tumours in rats and mice meet with the criteria for a

potential human carcinogen.

Mutagenicity May be a mutagen.

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

Other Information The irritant effect provides warning and toxic dosages are unlikely to be absorbed. The

odour threshold (ca 0.5ppm) is below the MEL (2ppm).

#### 12. Ecological

Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

#### 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.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of

explosion. Clean out with a weak ammonia solution then wash out thoroughly with water.

## 14. Transport Information

Proper Shipping Name Formaldehyde Solution

UN Number 2209

UN Classification 8 Corrosive

Subsidiary Risk None

Flash Point 69.0 °C(Closed cup)

Packing Group III
Transport Category 3
Marine pollutant No
ADR Hazard ID 80



## 15. Regulatory Information

Labelling Classification

Toxic.

Label Symbols

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Risk & safety Phrases

Toxic by inhalation, in contact with skin and if swallowed. Causes burns. Limited evidence of carcinogenic effect. May cause sensitisation by skin contact. Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label). Use only in well ventilated areas. Carcinogen category: 3

EEC Number 200-001-8

#### 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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