

# Camlab Limited – Material Safety Data Sheet


## 1. Identification

Product Code CC/1073-CO

Product Name DIMETHYL SULPHOXIDE A.R.

Molecular Formula  $\text{CH}_3\text{SOCH}_3$  =78.13

CAS Number 67-68-5

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## 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Dimethyl sulphoxide	67-68-5	200-664-3	> 99.7%	None	N/A

## 3. Hazards Identification

Not considered harmful

## 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists 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.

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

## 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 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 Avoid breathing vapour. Ensure no sources of ignition. Use approved personal protective equipment. Do not allow general use of area until it is safe to do so.

## 6. Accidental Release Measures (continued)

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 salvage container for removal. 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.  No specific precautions.
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 Workplace Exposure Limits

No prescribed exposure limits available

## 8.2 Personal Protection

Respiratory	Presents no significant inhalation health hazard.
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	Odourless when fresh but develops 'cabbage-like' odour on prolonged storage.
pH	Not available
Boiling point	189.0 °C
Melting point	18.5 °C
Flash point	95.0 °C(DIN 51755)
Upper Flammable Limit	42.0 %
Lower Flammable Limit	2.6 %
Auto Ignition	215.0 °C
Explosive properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	0.37mmHg at 20 C
Relative Density	1.1000
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	Strong oxidising agents, active halogen compounds and metal hydrides.
Hazardous Decomposition Products	Decomposes to emit toxic fumes of sulphur dioxide, methyl mercaptan and formaldehyde.

## 11. Toxicological Information

Eyes	The liquid may be irritating to the eyes but unlikely to cause serious injury.
Skin	Unlikely to be an irritant on brief or occasional exposure.
LD50 Skin	Mouse 50 g/Kg
Ingest	Presents no significant hazard by ingestion.
LD50 Ingest	Oral Rat 17.4 g/Kg
Inhalation	Presents no significant health hazard by inhalation. The low vapour pressure precludes excessive exposure to the vapour at room temperature, but at elevated temperatures inhalation of the vapour or aerosol mists may be irritating.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

## 12. Ecological

\* NOT ON FILE \*

## 13. Disposal Considerations

Disposal Methods	Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste.
Contaminated Packaging	Use a licensed waste disposer.

## 14. Transport Information

Proper Shipping Name	Non-restricted
UN Number	Non-restricted
UN Classification	None
Subsidiary Risk	None
Flash Point	95.0 °C(DIN 51755)
Packing Group	None
Transport Category	None
Marine pollutant	No
ADR Hazard ID	Non-restricted

## 15. Regulatory Information

Labelling	None
Classification	
Label Symbols	None
Risk & safety Phrases	Avoid contact with skin and eyes.
EEC Number	200-664-3

## 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: 12/05/06. Data reviewed and PDF file generated: 19/07/07. Copyright 2007 Camlab Limited.
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