Vickers Laboratories Ltd - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 16 February 2021 03 February 2023

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Section 1. Identification

ICKERS

| 1.1 | Product Identifier | 1073 |
|-----|-------------------------------------|--|
| | Product Name | DIMETHYL SULPHOXIDE A.R. |
| | CAS Number REACH Registration No | 67-68-5 01-2119431362-50-XXXX |
| | Molecular Formula | CH ₃ SOCH ₃ =78.13 |

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

Vickers Laboratories Ltd

Grangefield Industrial Estate Richardshaw Road Pudsey West Yorkshire LS28 6QW UNITED KINGDOM

| | Phone Fax Email Website | 44 0113 2362811 +44(0)113 2362703 safety@viclabs.co.uk www.viclabs.co.uk |
|-----|----------------------------------|---|
| 1.4 | Emergency Telephone | (08:00-16:30) +44(0) 113 2362811 (24hr) 112 (Have this document to hand) |

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Not classified as hazardous.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Not classified as hazardous.

Section 3. Composition

3.1 Substances

Not classified as hazardous.

Section 4. First Aid

4.1 Description of 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. |
| Ingestion | If conscious give plenty of water to drink. Do not induce vomiting. |
| Personal protection for first aiders | Wear protective gloves / eye protection. |

4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Section 5. Fire Fighting

5.1 Extinguishing media

| Extinguishing Media | Water spray, foam, dry powder or carbon dioxide. |
|---------------------|--|
| Unsuitable Media | Nothing specified. |

5.2 Special hazards arising from the substance or mixture

Presents no specific fire danger.

5.3 Advice for firefighters Advice for firefighters

Hazards

Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing vapour. Use approved personal protective equipment.

6.2 Environmental precautions

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.

6.3 Methods and material for containment and cleaning up

 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.

6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

Section 7. Storage & Handling

7.1 Precautions for safe handling

Keep away from sources of ignition. All transfer systems should be earthed to prevent accumation of static electricity.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage . Keep containers closed when not in use.

7.3 Specific end use(s)

See section 1.2.

8.1 Control parameters

Exposure data source(s) No hazardous components.

8.2 Exposure controls

| 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. |
|---|
| Use solvent resistant gloves. |
| Use tightly fitting chemical splash proof glasses or goggles. |
| Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn. |
| No special precautions required. |
| |

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

| Appearance | Clear colourless liquid. |
|-----------------------------|-------------------------------|
| Odour | No specific odour. |
| pH | Not applicable |
| Boiling Point | 189 °C |
| Melting Point | 18.5 °C |
| Flash Point | 87°C (Closed cup) |
| Upper Flammable Limit | 28.5% |
| Lower Flammable Limit | 2.6% |
| Auto Ignition | 301°C |
| Explosive Properties | No. |
| Oxidising Properties | No. |
| Vapour Pressure | 0.56 hPa @ 20 °C |
| Relative Density | 1.1000 |
| Water Solubility | Completely miscible in water. |

9.2 Other information

No data available.

Section 10. Stability & Reactivity

| 10.1 | Reactivity | No data available. |
|------|-------------------------------------|---|
| 10.2 | Chemical Stability | Stable under normal conditions |
| 10.3 | Possibility of hazardous reactions | No data available. |
| 10.4 | Conditions to Avoid | No specific conditions. |
| 10.5 | Incompatable Materials | Acid chlorides, phoshporous halides, strong acids, strong oxidising agents, strong reducing agents. |
| 10.6 | Hazardous Decomposition Products | Burning may produce carbon monoxide, carbon dioxide and sulphur dioxide. |

Section 11. Toxicological Information

11.1 Information on toxicological effects

| 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 | ~50000mg/kg Mouse |
| Ingestion | 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 Oral | 28300 mg/Kg Rat |
| | |

| 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. |
|----------------------|--|
| LD50 Inhalation | Not available |
| TCLo | Not available |
| Carcinogenicity | Not considered to be a carcinogen. |
| Mutagenicity | Not considered to be a mutagen. |
| Reproductive Effects | Exposure of pregnant women to 30mg/m3 and 300 mg/m3 produced embryotropic effects ranging from high lipid values to embryotoxic effects respectively. |

Section 12. Ecological

| 12.1 | Toxicity | Readily biodegradable in the environment. 76% degraded after 10 days in fresh water. |
|------|----------------------------------|--|
| | LC50 Algal | 17 g/L Algae (72 hours) |
| | LC50 Crustacea | 24.6 g/L Daphnia magna (48 hours) |
| | LC50 Fish | >25 g/L Fish (96 hours) |
| 12.2 | Persistence and degradability | No data available. |
| 12.3 | Bioaccumulative potential | No data available. |
| 12.4 | Mobility in soil | No data available. |
| 12.5 | Results of PBT & vPvB assessment | Assessment not required. |
| 12.6 | Other adverse effects | None known at present. |

Section 13. Disposal Considerations

13.1 Waste treatment methods 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.

Section 14. Transport Information

| | L | |
|------|------------------------------|----------------------------------|
| 14.1 | UN Number | Non-restricted |
| 14.2 | Proper Shipping Name | Non-restricted |
| 14.3 | Transport classes | |
| | UN classification | None |
| | Subsidiary hazard(s) | None |
| | Transport category | None |
| | ADR Hazard ID | Non-restricted |
| | Tunnel Restriction Code | Non-restricted |
| 14.4 | Packing Group | None |
| 14.5 | Environment hazards | See section 12. |
| 14.6 | Special precautions for user | No special precautions required. |
| 14.7 | Transport in bulk | Not transported in bulk. |

Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Not classified as hazardous under Classification, Labelling & Packaging of Substances & Mixtures Regulations (1272/2008/CE).

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 February 2021

Reviewed by chemist: 16 February 2021

Printed date: 03 February 2023

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