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Infosafe No™ 1CHGI RE-ISSUED by CHEMSUPP Issue Date : June 2021

Product Name DIMETHYL SULFOXIDE

Not classified as hazardous

1. Identification

GHS Product

DIMETHYL SULFOXIDE

Identifier

CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211) **Company Name**

38 - 50 Bedford Street GILLMAN Address

SA 5013 Australia

www.chemsupply.com.au

Telephone/Fax

Number

Tel: (08) 8440-2000

Emergency phone

number

E-mail Address Recommended use of the chemical and

restrictions on use

Solvent for polymerization and cyanide reactions, spinning polyacrylonitrile and other synthetic fibres, industrial cleaners, pesticides, paint stripping, hydraulic fluids, preservation of cells at low temperature, diffusion of

drugs, etc, into blood stream by topical application, medicine

CHEMCALL 1800 127 406 (Australia) / +64-4-917-9888 (International)

(anti-inflammatory), plant pathology and nutrition, pharmaceutical products,

metal-complexing agent and laboratory reagent.

Other Names Name Product Code

DMSO

Methyl sulfoxide

DIMETHYL SULFOXIDE AR DA013

Other Information

ChemSupply Australia Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon ChemSupply Australia Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of ChemSupply Australia Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the

substance/mixture

Classified as non-Hazardous according to the Globally Harmonised System of classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Dimethyl Sulfoxide	67-68-5	100 %

4. First-aid measures

Inhalation Remove victim to fresh air. Keep warm and at rest. If rapid recovery does

not occur, obtain medical attention.

Rinse mouth thoroughly with water immediately, repeat until all traces of Ingestion

product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if

effects persist.

Wash affected areas with copious quantities of water. Remove contaminated Skin

clothing and wash before re-use. If persistent irritation occurs, obtain

medical attention.

Immediately irrigate with copious quantity of water for at least 15 minutes. Eye contact

Eyelids to be held open. If rapid recovery does not occur, obtain medical

attention





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First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of

the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126;

New Zealand 0800 764 766) or a doctor.

5. Fire-fighting measures

Hazards from

May evolve toxic fumes of sulfur and carbon oxides in fire.

Combustion Products

Specific Methods Small fire: Use dry chemical, CO2, water spray or foam.

Large fire: Use water spray, fog or foam.

If safe to do so, move undamaged containers from the fire area. Cool containers with flooding quantities of water until well after the fire is out.

Specific hazards May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. Containers may explode

arising from the chemical

Wear SCBA and structural firefighter's uniform.

connection with Fire

Precautions in

6. Accidental release measures

Personal Precautions Avoid inhalation, contact with skin, eyes and clothing. Remove ignition

sources

when heated.

Keep away from open flames, hot surfaces and sources of ignition. Take

precautionary measures against static discharge.

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods -Small Spillages Absorb or contain liquid with sand, earth or spill control material. Shovel up using non sparking tools and place in a labelled, sealable container for subsequent safe disposal. But leaking containers in a labelled drum or

subsequent safe disposal. Put leaking containers in a labelled drum or overdrum.

7. Handling and storage

Precautions for Safe Handling Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Conditions for safe storage, including any incompatibilities

Store away from oxidizing agents. Keep container tightly closed and dry, away from direct sunlight and other sources of heat or ignition. Store at room

temperature (15 - 25 °C).

8. Exposure controls/personal protection

Other Exposure Information

No exposure standards have been established for this product by Safe Work Australia, however, the TWA exposure standard for dusts/mists not otherwise specified is 10 mg/m3. All atmospheric contamination should be kept to as low a level as is workable. These Workplace Exposure Standards are guides to be

used in the control of occupational health hazards. All atmospheric

contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative

toxicity.

Appropriate engineering controls

Maintain the concentrations values below the TWA. This may be achieved by process modification, use of local exhaust ventilation, capturing substances

at the source, or other methods.

Respiratory Protection Usually is not required.

Where protection is required from nuisance levels of dust or mists select respiratory protection that complies with AS 1716 - Respiratory Protective Devices and select in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends

on exposure levels.

Eye Protection

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. Must comply with Australian Standards AS 1337 and

be selected and used in accordance with AS 1336.





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Wear gloves of impervious material conforming to AS/NZS 2161: Occupational **Hand Protection**

protective gloves - Selection, use and maintenance. Final choice of

appropriate glove type will vary according to individual circumstances. This can include methods of handling, and engineering controls as determined by

appropriate risk assessments.

Personal Protective Equipment

Personal protective equipment should not solely be relied upon to control risk and should only be used when all other reasonably practicable control measures do not eliminate or sufficiently minimise risk. Guidance in selecting personal protective equipment can be obtained from Australian, Australian/New Zealand

or other approved standards.

Safety boots in industrial situations is advisory, foot protection should **Footwear**

comply with AS 2210, Occupational protective footwear - Guide to selection,

care and use.

Clean impervious clothing should be worn. Clothing for protection against **Body Protection**

chemicals should comply with AS 3765 Clothing for Protection Against Hazardous

Chemicals.

Always wash hands before smoking, eating or using the toilet. Wash **Hygiene Measures**

contaminated clothing and other protective equipment before storing or

9. Physical and chemical properties

Liquid **Form**

Colourless liquid, hygroscopic. **Appearance**

Nearly odourless to a garlic-like odour. Odour

18.5 °C **Melting Point** 189 °C **Boiling Point**

Soluble in water. Solubility in Water

Soluble in alcohols, esters, ketones, chlorinated solvents and aromatic

Solubility in Organic hydrocarbons. **Solvents**

1.10 **Specific Gravity**

0.6 hPa @ 20 °C Vapour Pressure

Vapour Density

(Air=1)

Viscosity

2 7

Evaporation Rate

4.3 (CC14 = 1)2.14 mPa @ 20 °C

Volatile Component

100%

Partition Coefficient: Log P(o/w): -1.35.

n-octanol/water

95 °C (O.C.) **Flash Point** Combustible. **Flammability**

Auto-Ignition

300 °C

Temperature

Flammable Limits -

1.8 vol%

Lower

Flammable Limits -

63 vol%

Upper

78.13 Molecular Weight

Taste: Onion or garlic-like. **Other Information**

10. Stability and reactivity

Stable under ordinary conditions of use and storage. Hygroscopic **Chemical Stability**





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Strond heat, flames, ignition sources and incompatibles. Conditions to Avoid

Incompatible Materials Hazardous

Strong oxidisers, strong acids, acylhalides, arylhalides, bromobenzoyl acetanilide, magnesium perchlorate, perchloric acid and sodium hydroxide.

Upon heating above 100C (212F), sulfur dioxide is evolved from this substance. Hazardous thermo-oxidative degradation products from DMSO include

Decomposition

formaldehyde, methyl mercaptan, carbon dioxide, carbon monoxide and sulfur **Products**

dioxide.

Possibility of hazardous reactions Forms explosive mixtures with air on intense heating.

Hazardous

Will not occur.

Polymerization

11. Toxicological Information

Ingestion Expected to be a low ingestion hazard.

Inhalation No adverse effects due to inhalation are expected. No adverse effects due to skin contact are expected. Skin Direct contact with eyes may cause temporary irritation. Eye

Not classified based on available information. Respiratory

sensitisation

Not classified based on available information. **Skin Sensitisation**

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Reproductive

Not classified based on available information. Not classified based on available information.

Toxicity

STOT-single Not classified based on available information.

exposure

STOT-repeated Not classified based on available information.

exposure

Not classified based on available information. Mutagenicity

12. Ecological information

No ecological problems are to be expected when the product is handled and used **Ecological** Information

with due care and attention.

Abiotic degradation: Rapid degradation. (air) Persistence and

Biologic degradation: Biodegradation: 3.1%/14 d. Not biodegradable. degradability

Bioaccumulative

Potential

No bioaccumulation is to be expected (log P(o/w < 1).

EC50 (Activated sludge): 10-100 mg/1/30 min **Acute Toxicity -**

Bacteria

13. Disposal considerations

Disposal Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations. **Considerations**

14. Transport information

Not classified as a Dangerous Good according to the Australian Code for the **Transport** Transport of Dangerous Goods by Road and Rail. Information

15. Regulatory information

Regulatory All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted. Not listed under WHS Regulation **Information**

2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.





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Poisons Schedule

S6

16. Other Information

Literature References

'Standard for the Uniform Scheduling of Medicines and Poisons .', Commonwealth of Australia.

National Road Transport Commission, 'Australian Code for the Transport of

Dangerous Goods by Road and Rail 7th. Ed.'.

Safe Work Australia, 'National Code of Practice for the Preparation of Safety

Data Sheets for Hazardous Chemicals'.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency

Response Guide', Standards Australia/Standards New Zealand.

Safe Work Australia, 'Hazardous Chemical Information System'. Safe Work Australia, 'National Code of Practice for the Labelling of Safe

Work Hazardous Substances'.

Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants

in the Occupational Environment'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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C2 H6 OS

Empirical Formula & Structural Formula

...End Of MSDS...

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