

Infosafe No™ 1CHS4 Issue Date : December 2020 RE-ISSUED by CHEMSUPP

Product Name **DIMETHYLGLYOXIME**

Classified as hazardous

1. Identification

GHS Product Identifier DIMETHYLGLYOXIME

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

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Recommended use of the chemical and restrictions on use Analytical chemistry, especially as a reagent for nickel; biochemical research; Separation of Pd from Sn, Au, Rh and Ir, also to detect Bi with which it forms a bright yellow colour precipitate; laboratory reagent.

Other Names	<u>Name</u>	<u>Product Code</u>
	DIMETHYLGLYOXIME AR	DA051
	DIMETHYLGLYOXIME LR	DL051
	2,3-Butanedionedioxime,	
	2,3-Diisonitrosobutane, Diacetyldioxime,	
	2,3-Butanedionedioxime disodium salt,	
	2,3-Butanedionedioxime disodium salt,	
	Biacetyl dioxime, Butane dioxime	

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 Flammable Solids: Category 2
Acute Toxicity - Oral: Category 3

Signal Word (s) DANGER

Hazard Statement (s) H228 Flammable solid.
H301 Toxic if swallowed.

Pictogram (s) Flame, Skull and crossbones



Precautionary statement – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/lighting/ ... / equipment.
(If dust clouds can occur)
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face

Infosafe No™ 1CHS4	Issue Date : December 2020	RE-ISSUED by CHEMSUPP
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protection.

Precautionary statement – Response P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth. P370+P378 In case of fire: Use dry chemical, dry sand or alcohol-resistant foam for extinction. P405 Store locked up.

Precautionary statement – Storage

Precautionary statement – Disposal P501 Dispose of contents/container according to local, state and federal government regulations.

3. Composition/information on ingredients

Ingredients	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Dimethylglyoxime	95-45-4	100 %

4. First-aid measures

Inhalation Remove victim to fresh air. If rapid recovery does not occur, obtain medical attention.

Ingestion Rinse mouth thoroughly with water immediately. DO NOT INDUCE VOMITING. Seek immediate medical advice.

Skin Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention. Wash clothing before reuse.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If rapid recovery does not occur, obtain medical attention

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 Combustion Products May liberate toxic fumes including oxides of carbon and nitrogen.

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 arising from the chemical May be ignited by heat, friction sparks or flames. Fine dust dispersed in air may ignite. Dust can form an explosive mixture in air.

Hazchem Code 1X

Precautions in connection with Fire Wear SCBA and structural firefighter's uniform.

6. Accidental release measures

Spills & Disposal Eliminate all ignition sources (no smoking, flares, sparks or flame) within at least 15m. Do NOT touch or walk through this product. Stop leak if safe to do so. Prevent entry into waterways, drains, confined areas. Prevent dust cloud. Use clean non-sparking tools to collect material and place it into loosely-covered plastic containers for later disposal. SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Precautions Evacuate the area of all non-essential personnel. Remove ignition sources. Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.

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

Infosafe No™ 1CHS4	Issue Date : December 2020	RE-ISSUED by CHEMSUPP
--------------------	----------------------------	-----------------------

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Clean-up Methods - Small Spillages	Sweep up (avoid generating dust) and using clean non-sparking tools transfer to a clean, suitable, clearly labelled container for disposal in accordance with local regulations.
Clean-up Methods - Large Spillages	Seek expert advice on handling and disposal.

7. Handling and storage

Precautions for Safe Handling	Extinguish any naked flames. Remove ignition sources. Avoid sparks. Do not smoke. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.
Conditions for safe storage, including any incompatibilities	Store in well ventilated area. Store away from sources of heat or ignition. Store away from oxidizing agents. Store in a cool, dry place. Keep containers closed at all times.
Storage Regulations	Refer Australian Standard AS/NZS 5026-2012 'The storage and handling of Class 4 dangerous goods'. Refer Australian Standard AS/NZS 4452:1997 'The storage and handling of toxic substances'.

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/m ³ . 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.
Hand Protection	Wear gloves of impervious material conforming to AS/NZS 2161: Occupational 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. Avoid skin contact when removing gloves from hands, do not touch the gloves outer surface. Dispose of gloves as hazardous waste.
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.
Body Protection	Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.
Hygiene Measures	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or

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re-using.

9. Physical and chemical properties

Form	Solid
Appearance	White to off white crystals or powder.
Odour	Odourless.
Melting Point	238 - 241 °C
Solubility in Water	Almost insoluble in water.
Solubility in Organic Solvents	Soluble in alcohol, ether, pyridine and acetone.
Density	0.5 G/CM3
Flammability	Flammable solid category 2.
Molecular Weight	116.12

10. Stability and reactivity

Chemical Stability	Stable under normal use conditons. May violently decompose in temperatures above 190 °C.
Conditions to Avoid	Extremes of temperature and direct sunlight. Heat, flames, ignition sources and incompatibles. Dust generation and temperatures above 190 °C.
Incompatible Materials	Oxidizing agents, strong acids, and reducing agents.
Hazardous Decomposition Products	Oxides of carbon and nitrogen oxides.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	Acute Toxicity - Oral: Category 3
Ingestion	Toxic if swallowed. May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.
Inhalation	May cause irritation to the respiratory tract. May cause irritation of the mucous membranes. Symptoms may include coughing and shortness of breath. The toxicological properties of this substance have not been fully investigated.
Skin	May cause irritation with redness and pain.
Eye	May cause irritation, redness and pain.
Respiratory sensitisation	Not classified based on available information.
Skin Sensitisation	Not classified based on available information.
Germ cell mutagenicity	Not classified based on available information.
Carcinogenicity	Not classified based on available information.
Reproductive Toxicity	Not classified based on available information.
STOT-single exposure	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Health Hazard	The toxicological properties of this material have not been fully investigated.
Chronic Effects	Repeated or prolonged skin contact may cause chronic dermatitis.

Infosafe No™ 1CHS4 Issue Date : December 2020 RE-ISSUED by CHEMSUPP

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Mutagenicity Not classified based on available information.

12. Ecological information

Ecotoxicity Quantitative data on the ecological effect of this product are not available. No ecological data available for this product.

Persistence and degradability Persistence is unlikely

Mobility Has low solubility in water therefore not likely to be mobility.

Bioaccumulative Potential Bioaccumulation is unlikely

13. Disposal considerations

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

14. Transport information

Transport Information Dangerous Goods of Class 4.1 Flammable Solids, are incompatible in a placard load with any of the following: - Class 1, Class 2.1, Class 4.2, Class 5 and Class 7

U.N. Number 2926

UN proper shipping name FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. - (Dimethylglyoxime)

Transport hazard class(es) 4.1

Sub.Risk 6.1

Hazchem Code 1X

Packing Group III

EPG Number 4B1

IERG Number 20

15. Regulatory information

Regulatory Information All of the significant ingredients in this formulation are compliant with Australian Industrial Chemicals Introduction Scheme (AICIS) regulations. Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Poisons Schedule Not Scheduled

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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Infosafe No™ 1CHS4	Issue Date : December 2020	RE-ISSUED by CHEMSUPP
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**Empirical Formula
& Structural
Formula**

C4 H8 N2 O2

...End Of MSDS...

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