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| Infosafe No™ 1CHIS | Issue Date : January 2021 | RE-ISSUED by CHEMSUPP |
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Product Name **DITHIZONE**

Classified as hazardous

1. Identification

GHS Product Identifier DITHIZONE

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

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SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000

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

E-mail Address www.chemsupply.com.au

Recommended use of the chemical and restrictions on use Sensitive reagent for several heavy metals, Co, Cu, Pb and Hg, especially for the estimation of minute amounts of Pb.

| Other Names | <u>Name</u> | <u>Product Code</u> |
|--------------------|--|----------------------------|
| | Phenyldiazene-carbothioic acid 2-phenylhydrazide, 1,5-Diphenylthiocarbazon | |
| | DITHIZONE AR | DA041 |

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 Eye Damage/Irritation: Category 2
Skin Corrosion/Irritation: Category 2

Signal Word (s) WARNING

Hazard Statement (s) H315 Causes skin irritation.
H319 Causes serious eye irritation.

Pictogram (s) Exclamation mark



Precautionary statement – Prevention P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention.

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Precautionary statement – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

3. Composition/information on ingredients

| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|-------------|-------------|------------|-------------------|
| | Dithizone | 60-10-6 | 100 % |

4. First-aid measures

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| Inhalation | Remove victim to fresh air. Keep warm and at rest. If symptoms persist, obtain medical attention. |
| Ingestion | Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed. DO NOT INDUCE VOMITING. Seek medical advice if effects persist. |
| Skin | Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and wash before re-use. Seek medical advice if effects persist. |
| Eye contact | Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. Seek medical advice if effects persist. |
| 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

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| Hazards from Combustion Products | May liberate toxic fumes in fire oxides of carbon, nitrogen and sulfur. |
| Specific Methods | Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam. |
| Specific hazards arising from the chemical | May burn but do not ignite readily. Runoff may pollute waterways. Fire may produce irritating, poisonous and/or corrosive fumes. In sufficient quantities and reduced particle size, this material is capable of creating a dust explosion. |
| Decomposition Temp. | 168 °C |
| Precautions in connection with Fire | Wear SCBA and structural firefighter's uniform. |

6. Accidental release measures

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| Personal Precautions | 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) |
| 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. |

7. Handling and storage

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| Precautions for Safe Handling | Avoid substance contact and generation and inhalation of dust. |
| 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

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| 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. The exposure value at the TWA is the average |
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| Appropriate engineering controls | airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. 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. |

9. Physical and chemical properties

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| Form | Solid |
| Appearance | Bluish-black crystalline powder. |
| Odour | Odourless. |
| Decomposition Temperature | 168 °C |
| Melting Point | 168 °C (decomposes) |
| Solubility in Water | Negligible. Insoluble in cold water. |
| Solubility in Organic Solvents | Sparingly soluble in alcohol. Freely soluble in carbon tetrachloride and chloroform. |
| Vapour Density (Air=1) | 8.8 (air = 1) |
| Evaporation Rate | 0 |
| Volatile Component | 0 |
| Flammability | Combustible. |
| Molecular Weight | 256.33 |

10. Stability and reactivity

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| Chemical Stability | Stable at room temperature. Solutions are not stable. |
| Conditions to Avoid | Heat, dusting and incompatibles. |
| Incompatible Materials | Strong oxidisers. |

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Hazardous Decomposition Products Oxides of carbon, nitrogen and sulfur.

Hazardous Polymerization Will not occur.

11. Toxicological Information

Toxicology Information No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. If mishandled or overexposed to this product the following symptoms or effects may occur.

Ingestion No data found.

Inhalation May cause slight irritation to respiratory system.

Skin Irritating to skin.

Eye Causes serious eye irritation.

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.

Chronic Effects No data available.

Mutagenicity Not classified based on available information.

12. Ecological information

Ecological Information No ecological problems are to be expected when the product is handled and used with due care and attention.

Ecotoxicity Quantitative data on the ecological effect of this product are not available.

Environmental Protection Do not allow product to enter drains, waterways or sewers.

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

15. Regulatory information

Regulatory Information Not listed under WHS Regulation 2011, Schedule 10 - Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. All the constituents of this product are listed on the Australian Inventory of Chemical Substances (AICS), or exempted.

Poisons Schedule Not Scheduled

16. Other Information

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

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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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**Empirical Formula
& Structural
Formula**

C13 H12 N4 S

...End Of MSDS...

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