

Infosafe No™ 1CHEE Issue Date : September 2022 RE-ISSUED by CHEMSUPP

Product Name **IRON OXIDE Magnetic**

Not classified as hazardous

Section 1 - Identification

| | | |
|--|--|---------------------|
| Product Identifier | IRON OXIDE Magnetic | |
| Company Name | CHEMSUPPLY AUSTRALIA PTY LTD (ABN 19 008 264 211) | |
| Address | 38 - 50 Bedford Street GILLMAN 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 | Pigment, linoleum, ceramic glazes, colouring glass, polishing compound, metallurgy, magnetic inks, in ferrites for electronic industry, coatings for magnetic tape, textiles, cathodes and catalyst. | |
| Other Names | <u>Name</u> | <u>Product Code</u> |
| | Ferrosoferric oxide | |
| | IRON OXIDE Magnetic TG | IT012 |
| | Iron oxide black | |
| | Black rouge | |
| | Ferroferric oxide | |
| Additional Information | When used for laboratory chemical analysis, it has no poison schedule. If this compound is used in human or animal application then it may acquire a poison schedule of S6, S5, S4 or S2. | |
| 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. | |

Section 2 - Hazard(s) Identification

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| GHS Classification of the Substance/Mixture | Classified as non-Hazardous according to the 7th Edition Globally Harmonised System of classification and labelling of Chemicals (GHS7) including Work, Health and Safety regulations, Australia. Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG). |
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Section 3 - Composition and Information on Ingredients

| Ingredients | <u>Name</u> | <u>CAS</u> | <u>Proportion</u> |
|--------------------|---------------------|------------|-------------------|
| | Iron (II,III) Oxide | 1317-61-9 | 100 % |

Section 4 - First Aid Measures

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| Inhalation | Remove from exposure, rest and keep warm. Seek medical advice if effects persist. |
| 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 area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention. |
| Eye | If contact with the eye(s) occurs, wash with copious amounts of water for |

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approximately 15 minutes holding eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. If symptoms persist seek 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.

Section 5 - Firefighting Measures

Suitable Extinguishing Media Use fire extinguishing media appropriate for surrounding environment. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Hazards from Combustion Products Irritating and toxic gases and/or fumes, including oxides of iron.

Decomposition Temperature 1538 °C.

Section 6 - Accidental Release Measures

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

Personal Protection Use personal protective equipment listed in 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.

Section 7 - Handling and Storage

Precautions for Safe Handling Avoid ingestion and inhalation of dust. Avoid contact with eyes, skin, and clothing.

Conditions for safe storage, including any incompatibilities Store in tightly closed, labelled container, in a cool, dry, well-ventilated area, away from incompatible materials.

Section 8 - Exposure Controls and Personal Protection

| Occupational Exposure Limit (OEL) Values | Name | STEL | | TWA | | Footnote |
|--|---|-------------------|-----|-------------------|-----|---|
| | | mg/m ³ | ppm | mg/m ³ | ppm | |
| | Iron (II,III) Oxide | | | 5 | | Iron Oxide fume (Fe ₂ O ₃) (as Fe) |
| Other Exposure Information | A time weighted average (TWA) has been established for Iron oxide fume (Fe ₂ O ₃) (as Fe) (Safe Work Australia) of 5 mg/m ³ . The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. | | | | | |
| Engineering Controls | In industrial situations 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 | Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. | | | | | |
| Eye and Face 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 | | | | | |

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| Hand Protection | be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and maintenance. |
| Personal Protective Equipment | Final choice of personal protective equipment will depend on individual circumstances and/or according to risk assessments undertaken. |
| Body Protection | Clean clothing or protective clothing should be worn. 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. |

Section 9 - Physical and Chemical Properties

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| Form | Solid |
| Appearance | Reddish-, blueish- or greyish-black amorphous powder. |
| Odour | Odourless. |
| Melting Point | 1538 °C (decomposes) |
| Decomposition Temperature | 1538 °C. |
| Solubility in Water | Insoluble. |
| Solubility in Organic Solvents | Soluble in acids. Dissolves slowly in hydrochloric acid. Insoluble in alcohol and ether. |
| Specific Gravity | 4.8 - 5.18. |
| Flammability | Non combustible material. |
| Molecular Weight | 231.54 |
| Other Information | Mohs Scale hardness: 5.5 - 6.5. Curie temperature: ~ 580 °C. |

Section 10 - Stability and Reactivity

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| Chemical Stability | Stable under normal temperatures and pressures. |
| Possibility of Hazardous Reactions | Oxidises to Fe ₂ O ₃ on heating in air. |
| Conditions to Avoid | Incompatible materials. |
| Incompatible Materials | Chloroformates, oxidizing agents, peroxides, aluminium, calcium hypochlorite, cesium carbide, ethylene oxide and acids. |
| Hazardous Decomposition Products | Irritating and toxic gases and/or fumes, including oxides of iron. |
| Hazardous Polymerization | Will not occur. |

Section 11 - Toxicological Information

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| Ingestion | May cause gastrointestinal irritation with nausea, vomiting and diarrhoea. The toxicological properties of this substance have not been fully investigated. |
| Inhalation | Inhalation of dust may cause respiratory tract irritation. Inhalation of fumes may cause metal fume fever, which is characterized by flu-like symptoms with metallic taste, fever, chills, cough, weakness, chest pain, muscle pain and increased white blood cell count. The toxicological properties of this substance have not been fully investigated. |
| Skin | May cause mechanical skin irritation, resulting in redness and itching. May be harmful if absorbed through the skin. |
| Eye | May cause mechanical eye irritation, resulting in mild abrasion. |
| Carcinogenicity | Not listed in the IARC Monographs. |

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Chronic Effects Chronic exposure to iron compounds may cause vomiting, diarrhoea, pink urine, black stool, and liver damage. Repeated or prolonged exposure may produce damage to the kidneys. Irritating to the respiratory tract, they may cause pulmonary fibrosis if dusts are inhaled. To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Section 12 - Ecological Information

Persistence and Degradability Possibly hazardous short term degradation products are not likely. The product itself and its products of degradation are not toxic.
Environmental Protection Do not allow to enter waters, waste water, or soil!

Section 13 - Disposal Considerations

Disposal Considerations Dispose of according to relevant local, state and federal government regulations.

Section 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.

Section 15 - Regulatory Information

Regulatory Information Listed in the Australian Inventory of Chemical Substances (AICS).
Poisons Schedule Not Scheduled

Section 16 - Any Other Relevant 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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Empirical Formula & Structural Formula Empirical Formula: Fe₃O₄.
Structural Formula: FeO•Fe₂O₃.

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