

Infosafe No™ 1CH3E	Issue Date : January 2021	RE-ISSUED by CHEMSUPP
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Product Name **IRON(III) OXIDE Red LR**

Not classified as hazardous

## 1. Identification

**GHS Product Identifier** IRON(III) OXIDE Red LR

**Product Code** FL012

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

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

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**E-mail Address** www.chemsupply.com.au

**Recommended use of the chemical and restrictions on use** Metallurgy, gas purification, paint and rubber pigment, electronic pigments for TV, component of thermite, polishing compounds, mordant, laboratory reagent, memory cores for computers, semi-conductors, permanent magnets, magnetic tapes and feed additive. Used medicinally in the treatment of arsenic poisoning in oral doses of up to 1 gram.

<b>Other Names</b>	<u><b>Name</b></u>	<u><b>Product Code</b></u>
	FERRIC OXIDE Red	
	Iron (III) oxide	
	Jewellers' rouge	
	Iron oxide pigment	
	Iron sesquioxide	
	C.I. 77491	

### 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** Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(2004) 3rd Edition, Safe Work Australia.  
Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

## 3. Composition/information on ingredients

<b>Ingredients</b>	<u><b>Name</b></u>	<u><b>CAS</b></u>	<u><b>Proportion</b></u>
	Ferric oxide	1309-37-1	94-100 %

## 4. First-aid measures

**Inhalation** Remove victim to fresh air. If breathing has stopped, apply artificial respiration. If breathing is difficult, give oxygen. 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** Remove contaminated clothing and wash affected skin with soap and water. Contaminated clothing must be laundered before re-use. Seek medical advice if effects persist.

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<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. If persistent irritation occurs, obtain medical attention.
<b>First Aid Facilities</b>	Maintain eyewash fountain and safety shower in work area.
<b>Advice to Doctor</b>	Treat symptomatically based on judgement of doctor and individual reactions of the patient.
<b>Other Information</b>	For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764 766) or a doctor.

## 5. Fire-fighting measures

<b>Specific Methods</b>	Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media. Material does not burn. Small fire: Use dry chemical, CO2, water spray or foam. Large fire: Use water spray, fog or foam.
<b>Precautions in connection with Fire</b>	Wear SCBA and structural firefighter's uniform.

## 6. Accidental release measures

<b>Personal Precautions</b>	Avoid substance contact. Avoid generation of dusts: do not inhale dusts. Ensure supply of fresh air in enclosed rooms.
<b>Personal Protection</b>	Wear protective clothing specified for normal operations (see Section 8)
<b>Clean-up Methods - Small Spillages</b>	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

<b>Precautions for Safe Handling</b>	Avoid substance contact and generation and inhalation of dust. Wash hands and face thoroughly after working with material.
<b>Conditions for safe storage, including any incompatibilities</b>	Keep container tightly closed and dry, away from direct sunlight. Store at room temperature (15 - 25 °C).
<b>Unsuitable Materials</b>	Aluminium.

## 8. Exposure controls/personal protection

Occupational exposure limit values	<u>Name</u>	STEL		TWA		<u>Footnote</u>
		<u>mg/m3</u>	<u>ppm</u>	<u>mg/m3</u>	<u>ppm</u>	
	Ferric oxide			5		Iron oxide fume (Fe2O3) (as Fe)
<b>Other Exposure Information</b>	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. A time weighted average (TWA) has been established for Iron oxide fume (Fe2O3) (as Fe) (Safe Work Australia) of 5 mg/m <sup>3</sup> . 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. Listed in the Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)], in Exposure Standards for Atmospheric Contaminants in the Occupational Environment: Guidance Note and National Exposure Standards, AusInfo, Canberra, 1995. Health Hazard. CAS 1309-37-1 was listed by NOHSC due to its Fume Exposure Standard but is not classified as a Hazardous Substance as this only applies to when a fume is formed, not to the supplied powder.					
<b>Appropriate engineering controls</b>	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.					

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<b>Respiratory Protection</b>	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.
<b>Eye Protection</b>	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.
<b>Hand Protection</b>	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.
<b>Personal Protective Equipment</b>	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.
<b>Footwear</b>	Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, Occupational protective footwear - Guide to selection, care and use.
<b>Body Protection</b>	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. When handling large quantities, disposable one-piece coated overall with integral hood.
<b>Hygiene Measures</b>	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

<b>Form</b>	Solid
<b>Appearance</b>	Reddish-brown powder or lumps.
<b>Odour</b>	Odourless.
<b>Melting Point</b>	1565 °C
<b>Solubility in Water</b>	Insoluble.
<b>Specific Gravity</b>	4.5 - 5.0 (tamped down apparent density 0.9 - 1.3)
<b>pH</b>	5 - 8 (of a 5% powder in water slurry)
<b>Volatile Component</b>	<0.5%
<b>Flammability</b>	Non combustible material.
<b>Molecular Weight</b>	159.70
<b>Other Information</b>	Soluble in acids.

## 10. Stability and reactivity

<b>Chemical Stability</b>	Stable at room temperature in closed containers under normal storage and handling conditions.
<b>Conditions to Avoid</b>	Incompatible materials, dust generation, excess heat.
<b>Incompatible Materials</b>	Aluminium (risk of explosion!), bromine pentafluoride, calcium hypochlorite, carbon dioxide, cesium carbide, ethylene oxide, hydrazine, performic acid.
<b>Hazardous Decomposition Products</b>	Irritating and toxic fumes and gases.
<b>Possibility of hazardous reactions</b>	Reacts violently with aluminium, calcium hypochlorite, cesium carbide, hydrazine and ethylene oxide.

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**Hazardous Polymerization** Has not been reported.

## 11. Toxicological Information

<b>Toxicology Information</b>	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.
<b>Ingestion</b>	Ingestion is not a typical route of occupational exposure.
<b>Inhalation</b>	Dust may be irritating to the respiratory tract. Symptoms may include coughing and shortness of breath. 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. Inhalation of the dusts should be avoided as even inert dusts may impair respiratory organ functions.
<b>Skin</b>	Dust may cause mechanical irritation.
<b>Eye</b>	May cause mechanical irritation.
<b>Respiratory sensitisation</b>	Not classified based on available information.
<b>Skin Sensitisation</b>	Not classified based on available information.
<b>Germ cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	Ferric oxide [1309-37-1] is evaluated in the IARC Monographs (Vol. 1, Suppl. 7; 1987) as Group 3: Not classifiable as to carcinogenicity to humans. Not classified based on available information.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT-single exposure</b>	Not classified based on available information.
<b>STOT-repeated exposure</b>	Not classified based on available information.
<b>Chronic Effects</b>	Long term inhalation exposure to iron has resulted in mottling of the lungs, a condition referred to as siderosis. On x-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica. Liver damage, coma and death have been recorded after chronic poisoning. Long term eye exposures may stain the eyes and leave a 'rust ring'.
<b>Mutagenicity</b>	Not classified based on available information.

## 12. Ecological information

<b>Ecological Information</b>	If the product does not react to form water-soluble compounds, then - due to poor solubility - no ecological problems are to be expected. No ecological problems are to be expected when the product is handled and used with due care and attention. This substance is not expected to be hazardous to the environment. Practically insoluble in water, it is able to be separated by almost any filtration and sedimentation process.
<b>Ecotoxicity</b>	Quantitative data on the ecological effect of this product are not available.

## 13. Disposal considerations

<b>Disposal Considerations</b>	Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.
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## 14. Transport information

<b>Transport Information</b>	Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>Environmental Hazards</b>	When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms.

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## 15. Regulatory information

**Regulatory Information**      Listed in the Australian Inventory of Chemical Substances (AICS). 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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**Empirical Formula & Structural Formula**      Fe<sub>2</sub> O<sub>3</sub>

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