

Safety Data Sheet

Irwin Chalk – Red, Permanent

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND SUPPLIER

Product Name:	Irwin Chalk – Red, Permanent
Other Names:	Nil
Recommended use:	Snap-line marking applications.
Supplier:	Irwin Industrial Tool Company Pty Ltd
ABN:	30 005 543 966
Address:	Level 3, 35 Dalmore Drive Scoresby. VIC 3179 Australia
Telephone:	+61 8 9277 5277 (WA) or +61 3 8762 4222 (for all other states)
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2. HAZARDS IDENTIFICATION

NOT A DANGEROUS GOOD ACCORDING TO THE CRITERIA OF THE AUSTRALIAN CODE OF PRACTICE FOR THE TRANSPORT OF DANGEROUS GOODS BY ROAD AND RAIL (ADG 7)

EMERGENCY OVERVIEW: Non-combustible red solid powder with no odour. Irritating to eyes, skin, and respiratory system. Exposure to large quantities of this material may cause acute irritation of eyes and difficulty breathing.

Eye:	May cause irritation. Chalk dust is discomforting and abrasive to the eyes.
Skin:	Prolonged skin contact may cause irritation. May cause an allergic reaction in certain individuals. When the product is used as intended, it is unlikely to cause discomfort.
Ingestion:	Ingestion of large amounts may cause gastrointestinal irritation. Ingestion is considered an unlikely route of entry in commercial or industrial environments.
Inhalation:	May cause respiratory tract irritation. When the product is used as intended, it is unlikely to cause discomfort.
Chronic:	Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). Prolonged inhalation of iron oxide dust is known to produce a benign lung condition known as siderosis. When the product is used as intended, dust levels should not exceed exposure limits. See Sections 8 and 11.

Do not handle until all safety precautions have been read and understood.



DANGER



WARNING

Obtain special instructions before use.
May cause cancer by inhalation. Avoid breathing dust or fume.
Causes serious eye irritation. Causes mild skin irritation. Do not handle until all safety precautions have been read and understood.
Wear protective gloves and eye protection.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical identity	CAS Number	Proportion
Calcium Carbonate ¹	471-34-1	75-80 %
Red Iron Oxide	1309-37-1	20-25 %
Silica (Crystalline Quartz) ¹	14808-60-7	0.1-1 %

¹ Calcium carbonate may contain crystalline silica levels between 0.1 and 1.0% and varies naturally.

All components in this product are listed on the Australian Inventory of Chemical Substances (AICS).

4. FIRST AID MEASURES

Inhalation: Remove from exposure and move to fresh air immediately. Encourage the patient to blow nose to ensure clear breathing passages. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Skin contact: Wet clothing first to minimize dust generation, then; remove contaminated clothing and shoes. Launder contaminated clothing before wearing again. Wash affected area with water (and soap if available). Get medical aid in the event of irritation.

Eye contact: Do not rub eyes, rubbing may cause abrasions. Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Ingestion: Not considered a normal route of exposure. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get immediate medical aid.

Notes to doctor: Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Specific hazards: Non-combustible solid. Will not burn in a fire. If oxidation of this product should occur, heat will be liberated which could cause surrounding combustibles to burn.

Extinguishing media: Use extinguishing agents appropriate for surrounding combustible materials.

Fire fighting procedures: As with any fire, wear full protective clothing and approved self-contained breathing apparatus with full face-mask. If safe to do so, remove containers from path of fire. Continue to cool fire-exposed containers with water until well after flames are extinguished.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protective equipment as specified in Section 8.

Environmental precautions: Do not allow this material to be released to the environment without proper governmental permits.

Methods for cleaning up: Recover the product whenever possible. Avoid generating dust when sweeping/shovelling up. If required, wet the material with water to prevent creating dust. Pick up and place in a suitable container for reclamation or disposal. Dispose of in accordance with local regulations.

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7. HANDLING AND STORAGE

Handling: Avoid creating or breathing dust. Avoid contact with skin and eyes. Wash hands and face thoroughly after handling product. Wear appropriate personal protective equipment as specified in Section 8.

Storage: Store in a tightly closed container in a cool, dry location away from incompatible materials. Ensure storage area is well-ventilated. Keep containers closed at all times when not in use. Avoid dust generation.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure and Engineering Controls: Facilities storing or utilizing this material should have potable water available for washing eyes and skin. Ensure adequate ventilation.

Personal protective equipment:

Hand protection: Wear protective gloves

Eye protection: Wear protective safety glasses with side-shields or chemical safety goggles where eye contact is possible.

Respiratory protection: When engineering controls are not sufficient to reduce exposure, wear an approved disposable dust mask with suitable filter class. If dust exposure is likely, seek professional advice prior to respirator selection and use.

Hygiene measures: Wash contaminated clothing before reuse.

General: Ensure adequate ventilation. Ensure eyewash station and safety shower are readily available and tested regularly.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder
Colour:	Red
Odour:	Odourless.
pH (at 10% solids):	8.5-9.5.
Boiling point/range:	No data available.
Melting point/range:	Decomposes at 825°C
Flash point:	No data available.
Evaporation rate:	No data available.
Vapour density:	No data available.
Solubility in water:	<0.0002 (Trace)
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Vapour pressure:	No data available.
Relative density: (H ₂ O=1)	3.40-3.45.
Viscosity:	No data available.

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10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Hazardous decomposition products: Carbon monoxide, carbon dioxide, calcium oxide.

Materials to avoid: Strong oxidizing agents, acids, aluminum, fluorine, magnesium, peroxides, hydrazine, calcium hypochlorite, performic acid and bromine pentafluoride.

Conditions to avoid: Incompatible materials.

Hazardous Polymerisation: Does not occur.

11. TOXICOLOGICAL INFORMATION

Note: Toxicological effects described in this section are those that would be expected based on data from the components of this product.

Acute toxicity: Calcium carbonate (CAS# 471-34-1): Draize test, rabbit, eye. 750 µg/24H Severe; Draize test, rabbit, skin: 500 mg/24H Moderate; Oral, rat: LD₅₀ = 6,450mg/kg.

Inhalation: (Silica, crystalline quartz) Human: LC_{Lo}: 300 µg/M³. Intermittent exposure over a 10-year period produced pulmonary system effects.

Skin contact: (Calcium carbonate) Rabbit: 500mg administered for 24 hours produces moderate skin irritation.

Eye contact: (Calcium carbonate) Rabbit: 0.750mg administered for 24 hours produced severe irritation.

Ingestion: (Calcium carbonate) Rat: LD₅₀: 6,450mg/kg. (Iron Oxide) Rat: LD₅₀. >5,000 mg/kg.

Chronic toxicity/Carcinogenicity: Repeated and prolonged inhalation exposure to crystalline silica dust above exposure limits may cause delayed, chronic lung injury (silicosis). When the product is used as intended, dust levels should not exceed exposure limits.

Quartz - crystalline silica:

The International Agency for Research on Cancer (IARC) has designated this substance Group 1, "carcinogenic to humans".

The National Toxicology Program (NTP) has designated this substance: Group K "known to be a human carcinogen"

American Conference of Governmental Industrial Hygienists (ACGIH) has designated this substance A2; suspected human carcinogen. The agent is carcinogenic in experimental animals at dose levels, by route of administration, at sites of histologic type(s) or by mechanism(s) considered relevant to worker exposure.

Available epidemiologic studies are conflicting or insufficient to confirm an increased risk of cancer in exposed humans.

12. ECOLOGICAL INFORMATION

Bioaccumulation: No information found.

Ecotoxicity effects: No information found.

Fish Toxicity: Golden Orfe (Leuciscus idus) LC_{Lo}: greater than 1,000 mg/l

13. DISPOSAL CONSIDERATIONS

Waste from residues. Dispose of in a manner consistent with federal, state, and local regulations. Disposal by landfill may be acceptable.

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14. TRANSPORT INFORMATION

Road and Rail Transport (Australian Dangerous Goods Code):

Not Regulated

15. REGULATORY INFORMATION

Classification: Not classified as hazardous according to criteria of NOHSC.
Not classified as a Dangerous Good according to criteria of the Australian Dangerous Goods Code.

Safety Phrases: Calcium Carbonate S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S39 Wear suitable eye-face protection

Poisons Schedule: Not Scheduled

16. OTHER INFORMATION

This Material Safety Data Sheet has been prepared by Hodson & Associates Pty Ltd on behalf of Irwin Industrial Tool Company Pty Ltd.

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