

Section 1 - Identification of The Material and Supplier

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Product Name: Red Brwon Underglaze
Other means of identification: None
Chemical nature:
Product Use: Used in Ceramics and pottery
Restrictions on use: None
Emergency Number: Poisons Control – 13 11 16 (24 hours, 7 days a week)
Creation Date: March 2019
This version issued: July 2024 and is valid for 5 years from this date.

Section 2 - Hazards Identification

Statement of Hazardous Nature

This product is classified as: Not classified as hazardous according to the criteria of SWA.
Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Classification: Acute Toxicity-Inhalation category 4, Skin corrosion/irritation category 2, Eye damage/irritation category 2A, Acute toxicity - oral category 4

Signal Word: Warning

Hazard Statements:

H332 – Harmful if Inhaled.
H315 - Causes Skin Irritation
H320 – Causes Eye Irritation
H302 – Harmful if swallowed

Precautionary Statements - Prevention:

P261 – Avoid breathing dust.
P264 – Wash hand thoroughly after handling

Precautionary Statements – Response:

P304 + P340 – If inhaled: remove person to fresh air and keep comfortable for breathing
P312 – Call poison centre/doctor if feeling unwell.
P302 + P352 – If on skin: wash with plenty of water
P321 – Specific treatment (see label)
P332 + P313 – If skin irritation occurs: Get medical advice/attention.
P362 + P364 – Take off contaminated clothing and wash it 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.
P301 + P312 – If swallowed call poison centre/doctor
P330 – Rinse mouth

Precautionary Statements - Storage:

None

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Precautionary Statements - Disposal:

P501 – Dispose of contents/container in accordance with local, regional and national regulations.

Emergency Overview

Physical Description & Colour: Red Brown Viscous liquid

Odour: No odour

Major Health Hazards: Dust may cause irritation of the eyes, skin and respiratory tract. Prolonged and/or repeated exposure to the dust may result in fibrotic lung damage (silicosis) in some people.

Section 3 - Composition/Information on Ingredients

Ingredient	CAS No	Conc %	TWA (mg/m ³)	STEL (mg/m ³)
Zinc Iron Chromate Brown Spinel	68186-88-9	>60%		
Frit	65997-18-4	<10%		

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous ingredients are also possible.

The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5-day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak" is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.

Section 4 - First Aid Measures

General Information:

You should call The Poisons Information Centre if you feel that you may have been poisoned, burned, or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.

Inhalation: First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

Skin Contact: Gently brush away excess particles. Irritation is unlikely. However, if irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until chemical is removed.

Eye Contact: Quickly and gently brush particles from eyes. No effects expected. If irritation does occur, flush contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed. Obtain medical advice if irritation becomes painful or lasts more than a few minutes. Take special care if exposed person is wearing contact lenses.

Ingestion: If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.

Section 5 - Fire Fighting Measures

Fire and Explosion Hazards: The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.

No fire decomposition products are expected from this product at temperatures normally achieved in a fire.

Extinguishing Media: Use water, foam, or dry extinguishing media.

Fire Fighting: Fire fighters should wear full protective clothing including self-contained breathing apparatus.

Flash point: Does not burn

Upper Flammability Limit: Does not burn

Lower Flammability Limit: Does not burn

Autoignition temperature: Does not burn

Flammability Class: Does not burn

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Section 6 - Accidental Release Measures

Personal Precautions: Approved respirator to AS1715 to be worn, gloves, safety glasses and protective overalls. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking, and using toilet facilities. Approved respirator to AS1715 to be worn, gloves, safety glasses and protective overalls. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking, and using toilet facilities.

Environmental Precautions: Avoid letting product entering drains or water courses.

Methods and materials for containment and clean up:

Minor Spills - Don't normally need any special cleanup measures.

Major Spills - In the event of a major spill, prevent spillage from entering drains or water courses. As a minimum, wear overalls, goggles, and gloves. Suitable materials for protective clothing include rubber, PVC. Eye/face protective equipment should comprise as a minimum, protective glasses and, preferably, goggles. If there is a significant chance that dusts are likely to build up in cleanup area, we recommend that you use a suitable Dust Mask.

Stop leak if safe to do so and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage and dispose of promptly. Consider vacuuming if appropriate. Recycle containers wherever possible after careful cleaning. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7 - Handling and Storage

Handling: Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this SDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

Storage: Store and transport in accordance with all regulations. Keep tightly closed in a dry, cool and well-ventilated place. Not subject to hazardous substances labelling.

Storage Incompatibility: None known

Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

SWA Exposure Limits	TWA (mg/m ³)	STEL (mg/m ³)
Silica, Crystalline, Quartz	0.2mg/m ³	
Zirconium compound as Zircon	5.0mg/m ³	
Borax, anhydrous & pentahydrate	1.0mg/m ³	
Cobalt metal, dust & fume as Cobalt	0.5mg/m ³	
Nickel, Metal & Insoluble Compounds (as Ni)	1.0mg/m ³	
Chromium (III) Compounds as Chrome	0.05mg/m ³	

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.

Ventilation: This product should only be used in a well-ventilated area. If natural ventilation is inadequate, use of a fan is not suggested.

Eye Protection: Eye protection such as protective glasses or goggles is recommended when this product is being used.

Skin Protection: we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when skin contact is likely. Wear safety footwear or safety gumboots.

Body/clothing Protection: PVC Apron or overalls.

Protective Material Types: We suggest that protective clothing be made from the following materials: rubber, PVC.

SAFETY DATA SHEET

Respirator: If there is a significant chance that dusts are likely to build up in the area where this product is being used, we recommend that you use a suitable Dust Mask.

Engineering measures: Ensure workplace is well ventilated and has a washing area with an eyewash

Section 9 - Physical and Chemical Properties:

Physical Description:	Red Brown Viscous liquid
Colour:	Red Brwon
Odour:	No odour.
Boiling Point:	>400°C
Freezing/Melting Point:	Not applicable.
Volatiles:	Various - depending on water content.
Vapour Pressure:	<1mm of Hg
Vapour Density:	Not applicable.
Specific Gravity:	Approx 4.5
Water Solubility:	Negligible
pH:	No data.
Volatility:	No data.
Odour Threshold:	No data.
Evaporation Rate:	Not applicable.
Coeff Oil/water Distribution:	No data
Viscosity:	Not applicable.
Autoignition temp:	Not applicable - does not burn.
Flammability:	Not applicable - does not burn.
Upper/lower flammability:	Not applicable - does not burn.
Saturated vapour concentration:	Not applicable.
Release of invisible flammable vapours:	Not applicable.
Particle Size:	Not applicable.
Dustiness:	Not applicable

Section 10 - Stability and Reactivity

Reactivity: This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf-life properties.

Chemical Stability: This product is considered stable and hazardous polymerisation will not occur.

Possibility of Hazardous Reactions:

Conditions to Avoid: None known.

Incompatibilities: No Incompatibilities.

Hazardous Decomposition Products: No significant quantities of decomposition products are expected at temperatures normally achieved in a fire.

Section 11 - Toxicological Information

Potential Health Effects

Inhalation:

Short Term Exposure: Breathing dust may cause respiratory irritation and discomfort

Long Term Exposure: No data for health effects associated with long term inhalation.

Skin Contact:

Short Term Exposure: The dust may cause irritation dryness of the skin

Long Term Exposure: May lead to drying, cracking, irritation or possible.

Eye Contact:

Short Term Exposure: The dust may cause irritation of the skin

Long Term Exposure: No data for health effects associated with long term eye exposure.

Ingestion:

Short Term Exposure: Large doses may cause gastro-intestinal irritation

Long Term Exposure: No data for health effects associated with long term ingestion.

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Carcinogen Status:

SWA: No significant ingredient is classified as carcinogenic by SWA.

NTP: Silica is classified by NTP as reasonably anticipated to be carcinogenic to humans.

See the NTP website for further details. A web address has not been provided as addresses frequently change.

IARC: Silica is classed 1 by IARC - carcinogenic to humans.

See the IARC website for further details. A web address has not been provided as addresses frequently change.

Note that these designations refer only to respirable silica.

Section 12 - Ecological Information

Ecotoxicity: No data available for all ingredients

Persistence and degradability: No data available for all ingredients

Bioaccumulative potential: No data available for all ingredients

Mobility in soil: No data available for all ingredients

Other adverse effects: None

This product is not biodegradable. However, it is biologically inert so will not be harmful to flora or fauna, soil or water and will not cause long term problems. Expected to not be an environmental hazard.

Section 13 - Disposal Considerations

Disposal: This product may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to separate the contamination in some way. Only if neither of these options is suitable, consider landfill.

Section 14 - Transport Information

ADG Code: Not classified as a dangerous good under transport regulations.

UN number: Not applicable

UN proper shipping name: Not applicable

Transport hazard class(es): Not applicable

Packing group: Not applicable.

Environmental hazards: Not applicable

Special precautions for user: Keep tightly closed in a dry, cool and well-ventilated place. Not subject to hazardous substances labelling.

Section 15 - Regulatory Information

Silica is found on the below regulatory lists:

Australia Hazardous Chemical Information systems (HCIS) Hazardous Chemicals

Australia Model work Health and Safety Regulations – Hazardous Chemicals (other than lead) requiring health monitoring.

Australian Inventory of Industrial Chemicals (AIIC)

Section 16 - Other Information

This SDS contains only safety-related information. For other data see product literature.

Initial date: March 2019

Revision date: July 2024

Revision Notes: Sections 1-16

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail (7 th edition)
AICS	Australian Inventory of Chemical Substances
SWA	Safe Work Australia, formerly ASCC and NOHSC
CAS number	Chemical Abstracts Service Registry Number

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Issued by: Walker Ceramics

Phone: 03 87616322 (office hours)

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

Hazchem Code	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
R-Phrase	Risk Phrase
SUSMP	Standard for the Uniform Scheduling of Medicines & Poisons
UN Number	United Nations Number

THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This SDS is prepared in accord with the Code of practice of the preparation of Safety Data Sheets for Hazardous Chemicals

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