



Clays Glazes Colours

Material Safety Data Sheet

DA4064

Lead Bi-Silicate Frit 4064

This substance is hazardous according to criteria of Worksafe Australia.

Company Details	Walker Ceramics 5 McLellan Street Bayswater Victoria 3153, Australia Telephone (03) 8761 6322 Fax (03) 8761 6344 Email sales@walkerceramics.com.au Website www.walkerceramics.com.au Date Of Issue: March 2019
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IDENTIFICATION	
Product Name	Lead Bi-Silicate Frit
Other Names	Ceramic lead bearing frit
Manufacturers Product Code	DA4064
UN Number	None
Dangerous Goods Class & Subsidiary Code	None
Hazchem Code	None
Poisons Schedule Number	None
Use(s)	A glass like material which is applied and fired to produce a ceramic coating on ceramic substrates.

PHYSICAL DESCRIPTION / PROPERTIES	
Appearance	Clear or semi-opaque glassy flakes, granules or powder.
Boiling Point / Melting Point	>300°C
Vapour Pressure	Not applicable
Specific Gravity	Approx 4.4
Flashpoint	Not applicable
Flammability Limits	Not applicable
Solubility in Water	Negligible
Other Properties	Frit is a mixture of inorganic substances produced by rapidly quenching a molten, complex combination of materials, confining the chemical substances thus manufactured as a non-migratory components of glassy solid flakes or granules. Fit may

INGREDIENTS		
Chemical Name	CAS Number	Proportion (%)
Silica (Quartz)	14808-60-7	10-30
Lead, inorganic as Pb	7439-92-1	>60
Nuisance Particulates	Various	100

HEALTH HAZARD INFORMATION

Acute	<p>The hazardous ingredients listed for this product are incorporated into the glass-like structure of the frit, chemically reacted in the form of silicates or other essentially insoluble complexes. Exposure to the hazardous ingredients can occur if frit dust is inhaled or ingested and the ingredients dissolve out of the glass. Because of the chemical stability of frit and its resistance to attack by acids or alkalis, this is anticipated to occur very slowly.</p> <p>Due to the abrasive nature of frit, mechanical irritation of the skin and eyes can occur, particularly if exposure is long or repeated. Certain components are listed as hazardous ingredients because they are considered to be nuisance particulates. Nuisance particulates used in this product may include Aluminium Oxide (alumina), Calcium carbonate and Zinc Oxide. Nuisance particulates can cause unpleasant or uncomfortable deposits in the eyes, ears and nose, but do not cause any toxic effect when exposures are kept in reasonable control.</p> <p>Silica dust may cause mechanical irritation of the eyes, skin and respiratory tract. Prolonged or repeated exposure to crystalline silica dust can result in fibrotic damage (silicosis) in some people. Crystalline silica has been listed as a possible human carcinogen.</p> <p>Lead and lead compounds are considered hazardous because they can accumulate in the body through absorption via the lungs and gastrointestinal tract. Prolonged or repeated exposure to lead-bearing dust may cause anaemia, partial paralysis and malfunctioning of the kidneys.</p>
Swallowed	Large doses may cause gastro-intestinal irritation.
Eye	The dust may cause irritation of the eyes.
Skin	The dust may cause irritation and dryness of the skin.
Inhaled	Breathing the dust may cause respiratory irritation and discomfort
Chronic	No specific information is available.

FIRST AID

Swallowed	Give water or milk. Seek medical advice.
Eye	Irrigate with water for at least 15 minutes and seek medical advice if symptoms persist.
Skin	Wash thoroughly with soap and water. Change into clean clothing and launder contaminated clothing.
Inhaled	Remove to fresh air. Encourage patient to clear nasal passages. If breathing has stopped apply artificial respiration and seek immediate medical assistance.
First Aid Facilities	Washing area, eye wash.
Advice To Doctor	Considered practically non harmful. Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards	<p>Silica (as respirable dust) ACGHI 0.01 mg/m³</p> <p>Lead ACGHI 0.15 mg/m³</p> <p>Nuisance Particulates ACGIH 10.0 mg/m³ (total dust)</p> <p>ACGIH = American Conference of Governmental Industrial Hygienists. TWA = Time Weighted Average NOHSC = National Health & Safety Commission</p>
Engineering Controls	Ensure workplace is well ventilated.
Personal Protection	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.
Flammability	Not flammable under the conditions of use but the containers may burn.

SAFE HANDLING INFORMATION

Storage & Transport	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.
Spills & Disposal	Dispose of in accordance with all Local, State and Federal regulations by incineration or disposal to landfill.
Fire / Explosion Hazard	Fire-fighters should wear full protective clothing including self-contained breathing apparatus. Use water, foam or dry extinguishing media. Use equipment/media appropriate to surrounding fire conditions. Dispose of fire debris and contaminated extinguishing water in accordance with local regulations.

OTHER INFORMATION	Unless adequately fired, utensils glazed with this preparation must not be used as containers for food or beverages. To do so may lead to lead poisoning. <u>AUSTRALIAN POISONS INFORMATION CENTRE</u> 24 HOUR SERVICE 13 11 26 POLICE / FIRE / AMBULANCE 000
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This MSDS summarises, at the date of issue, our best knowledge of the health & safety hazard information for this product, and in particular how to safely handle and use this product in the workplace. Since Walker Ceramics and its agents cannot anticipate or control the conditions under which this product may be used, each user must prior to usage, review this MSDS in the context of how the user intends to handle and use this product in the workplace.

If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact us.

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 upon request.