

MATERIAL SAFETY DATA SHEET

Walker Ceramics 2/21 Research Drive, Croydon South, Victoria 3136, Australia
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Date Of Issue: April 2014

FQ14 Celeste Underglaze.doc

Not classified as Hazardous According To Criteria Of Safe Work Australia.

IDENTIFICATION

Product name: Cesco™ Brush-on Underglaze

Code: FQ14 Celeste Underglaze

COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS number	Proportion:
Chemical Name		
Zirconium Vanadium blue zircon	68186-95-8	<30%
Zirconium Praseodymium yellow zircon	68187-15-5	<20%
Zirconium Compounds	7440-67-2	<30%
Stannic Oxide	18282-10-5	<20%
Frit	65997-18-4	<20%

Ceramic stains are blended mixtures of pigments formed by high calcination and silica or feldspar. Underglazes are milled mixtures of ceramic stains and small amounts of milling additives, for application on ceramic surfaces under transparent glaze.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance: Pale Green viscous liquid
Odour: Negligible
Boiling point: Not applicable
Melting point: >400° C.
Vapour pressure: Not applicable
Specific Gravity: Approximately 4.5
Flashpoint: Not applicable
Flammability: Does not burn
Solubility in water: Negligible

HEALTH HAZARD INFORMATION

Health effects:

Acute

Ingestion: Product has low solubility.
Ingesting small amounts is unlikely to cause any severe health risks.
Large oral doses may cause gastrointestinal irritation.

Inhalation: Breathing dust/fumes may cause respiratory irritation and discomfort.

Skin & Eye contact: Dust may irritate the eyes and skin
Acts as nuisance dust.

Chronic

Chronic Exposure: Prolonged exposure to dust may lead to pulmonary problems.

Products which contain crystalline silica may have a proportion become airborne as respirable dust when in the dry form. Repeated exposure to respirable crystalline silica may lead to silicosis, a serious lung disease. The onset of silicosis is usually slow and lung damage may occur even when no symptoms or signs of ill-health have occurred. Development of silicosis may increase the risk of later development of lung cancer. It may also lead to other diseases including heart disease and scleroderma

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First Aid Measures:

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if irritation persists.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical advice.

Inhalation: Move to fresh air. If breathing has stopped, apply artificial respiration and seek medical attention.

Skin contact: Wash off with soap and plenty of water.

Advice to Doctor: Treat symptomatically.

PRECAUTIONS FOR USE

Exposure Standards

CAS 14808-60-7 Silica, crystalline, Quartz
NOHSC TWA: 0.2mg/cubic metre

CAS 1303-96-4 Borax, anhydrous & pentahydrate
HOHSC TWA: 1.0mg/cubic metre

Frit is produced by rapidly quenching a molten mixture of inorganic substances in glassy form from high temperature, thereby confining the substances into the frit as chemically reacted non-migratory components in the form of silicates or other essentially insoluble substances.

CAS 7440-67-2 Zirconium compounds. (as Zr)
NOHSC TWA: 5.0mg/cubic metre
NOHSC STEL: 10.0mg/cubic metre

CAS 18282-10-5 Stannic oxide, Tin IV oxide, tin dioxide (as SnO₂)
OEL TWA: 2.0mg/cubic metre

CAS 1314-62-1: Vanadium, respirable dust & fume (as V₂O₅)
NOHSC TWA: 0.05mg/cubic metre

Pigments are formed by high temperature calcination. Therefore they do not necessarily have any of the properties of their component oxides or metals.

Personal protection

VENTILATION: Use local exhaust ventilation to keep air contaminants below their TWAs

PERSONAL
PROTECTION: Safety glasses/goggles
Cotton work gloves
Apron or overalls
Face mask or respirator conforming to AS1715 for dust

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SAFE HANDLING INFORMATION

Accidental release measures

Clean up/Disposal: For small spills or leaks, wash with plenty of water.
For large spills pick up as much as possible and dispose of in closed containers, wash the remainder with plenty of water.

Personal Protection: Wear apron or overalls, rubber gloves, chemical goggles or safety glasses.

Handling and storage

Wear personal protective equipment.
Wash thoroughly after handling.

Keep lids on containers tightly closed.
Store away from consumables.

FIRE/EXPLOSION HAZARD

Fire Fighting Measures

Product is not combustible
No limitations for fighting surrounding fire.

TRANSPORT INFORMATION

This product is not classified for transport as a dangerous good as defined in the ADG Code or the IMDG code.

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The information contained in this Safety Data Sheet is correct to the best of our knowledge at the date of publication and whilst every care has been exercised in the preparation, Walker Ceramics accepts no responsibility for any use which may be made of the contents.
