

# MATERIAL SAFETY DATA SHEET

Walker Ceramics 5 McLellan Street Bayswater Victoria 3153, Australia  
Telephone (03) 8761 6322 Fax (03) 8761 6344  
Email [sales@walkerceramics.com.au](mailto:sales@walkerceramics.com.au) Website [www.walkerceramics.com.au](http://www.walkerceramics.com.au)

Date Of Issue: March 2019

FQ31 Hot Orange Underglaze

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

## IDENTIFICATION

**Product name:** Cesco™ Brush-on Underglaze

**Code:** FQ31 Hot Orange Underglaze

## COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS number	Proportion
Chemical Name		
Zirconium-cadmium selenide/sulfide-silicate inclusion colour	102184-95-2	>60%
Frit	65997-18-4	<10%

Ceramic stains are blended mixtures of pigments formed by high calcination with silica &/or feldspar. The cadmium pigment is encapsulated in Zircon, rendering it stable at high temperatures. This also reduces the hazards associated with the cadmium compound, but does not eliminate them. This cadmium stain also contains Barium. Frit is a chemically reacted mixture of inorganic substances in the form of essentially insoluble glassy silicates.

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: Orange viscous liquid  
Odour: Negligible  
Boiling point: Not applicable  
Melting point: >400° C.  
Vapour pressure: Not applicable  
Specific Gravity: Approximately 5.0  
Flashpoint: Not applicable  
Flammability: Does not burn  
Solubility in water: Negligible

## HEALTH HAZARD INFORMATION

### Health effects:

#### Acute

Ingestion: The product is of low solubility in body fluids and it is likely to be of low acute toxicity.

Inhalation: Excessive exposure may cause damage to the lungs and kidneys.

Eyes: May cause physical irritation and inflammation.

Skin: The material is not a primary irritant, but may give rise to minor irritation.

#### Chronic

Chronic Exposure: Prolonged or repeated exposure above Occupational Exposure Standards may cause lung or kidney damage.  
Prolonged exposure to dust may lead to pulmonary problems.

# MATERIAL SAFETY DATA SHEET

Walker Ceramics 5 McLellan Street Bayswater Victoria 3153, Australia  
Telephone (03) 8761 6322 Fax (03) 8761 6344  
Email [sales@walkerceramics.com.au](mailto:sales@walkerceramics.com.au) Website [www.walkerceramics.com.au](http://www.walkerceramics.com.au)

Date Of Issue: March 2019

FQ31 Hot Orange Underglaze

---

## 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 7440-39-3                  Barium compounds (as Ba) -less than 1% in product  
U.K. OELS TWA:                0.5mg/cubic metre

CAS N/A                         Cadmium pigments, respirable dust (as Cd) -less than 1% in product  
U.K. OELS TWA                 0.03mg/cubic metre

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

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

CAS 1303-96-4                 Borax, anhydrous & pentahydrate  
NOHSC TWA:                    1.0 mb/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.

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.

### 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

---

# MATERIAL SAFETY DATA SHEET

Walker Ceramics 5 McLellan Street Bayswater Victoria 3153, Australia  
Telephone (03) 8761 6322 Fax (03) 8761 6344  
Email [sales@walkerceramics.com.au](mailto:sales@walkerceramics.com.au) Website [www.walkerceramics.com.au](http://www.walkerceramics.com.au)

Date Of Issue: March 2019

FQ31 Hot Orange Underglaze

---

## SAFE HANDLING INFORMATION

### Accidental release measures

Clean up/Disposal: For small spills or leaks, use suitable vacuum equipment otherwise damp down and scoop into receptacle  
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 and respiratory protective equipment.

### Handling and storage

Do not eat, drink, or smoke in areas where material is used.  
Wash thoroughly after handling.

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

---

## FIRE/EXPLOSION HAZARD

### Fire Fighting Measures

Extinguishing media: Suitable for surrounding fire conditions.  
Special exposure hazard: In the event of fire the product may emit harmful or toxic fumes.  
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.

---

Walker Ceramics 5 McLellan Street Bayswater Victoria 3153, Australia  
Telephone (03) 8761 6322 Fax (03) 8761 6344  
Email [sales@walkerceramics.com.au](mailto:sales@walkerceramics.com.au) Website [www.walkerceramics.com.au](http://www.walkerceramics.com.au)

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.

---