

SAFETY DATA SHEET

1019657 - KMP4110 CERAMIC FRIT

Not Classified as Hazardous According To Criteria Of Safe Work Australia

1. MATERIAL & SUPPLIER IDENTIFICATION

PRODUCT NAME: KMP4110 CERAMIC FRIT

PRODUCT CODE: 1019657 Other Names: Ceramic frit

Use: Frits are used to produce glass coatings on ceramic, steel, aluminium or glass

substrates.

SUPPLIER: FERRO CORPORATION (AUST.) PTY LIMITED ADDRESS: 105-115 COCHRANES RD MOORABBIN VIC 3189

TELEPHONE: (03) 9555 9466

EMERGENCY PHONE: (03) 9555 9466 (Normal Business Hours)

(03) 9796 2194 (After Hours – general information)

2. HAZARDS IDENTIFICATION

NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS
Not classified as Hazardous According To Criteria Of Safe Work Australia
Not classed as Dangerous Goods according to the criteria of the ADG Code

Signal Word Not applicable

Hazard Statements

Not applicable

Precautionary Statements

Not applicable

UN No: None allocated DG Class: None allocated Hazchem Code: None allocated Poisons Schedule: None allocated

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: FRITS, CHEMICAL **CAS Number:** 65997-18-4*

Frit is a chemically reacted mixture of inorganic substances in the form of essentially insoluble glassy silicates.

Ingredients:

Chemical EntityCAS NoProportion %NOHSC mg/m³Frits, chemical65997-18-4*100none set

1019657 – KMP4110 ISSUE DATE: 6/6/2012 Page 1 of 5

4. FIRST AID MEASURES

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

persists.

Skin: Wash off with soap and plenty of water.

Advice to Doctor: Treat symptomatically.

For advice, contact a Poisons Information Centre (phone: Australia 13 11 26) or a doctor.

5. FIRE FIGHTING MEASURES

FLAMMABILITY: Not Flammable.

Fire/Explosion Hazard:

Material is not combustible and will not burn in a fire.

Extinguishing Media:

Use water spray, dry chemical, CO₂, or foam as required for fighting surrounding fire..

HAZCHEM CODE: None allocated

6. ACCIDENTAL RELEASE MEASURES

Spills and Disposals:

Transfer material via scoop or vacuum to closed containers for re-use or disposal.

Minimise the generation of dusts.

Wear apron, rubber gloves, chemical goggles or safety glasses.

Wash clothes before re-use.

No special environmental precautions required.

Disposal should be in accordance with local, state, and federal regulations.

7. HANDLING & STORAGE

No special transport requirements are necessary.

Store in a cool, dry, well ventilated area away from food, drink and animal feeding stuffs.

Wear personal protective equipment and wash thoroughly after handling.

Containers are to be kept closed when not in use to avoid generating dusts and minimise contamination.

Work Practices:

Avoid generating dusts and fumes.

Do not breathe dust or fumes.

Use only with adequate ventilation.

Wash thoroughly before eating, drinking, smoking, or applying cosmetics.

1019657 - KMP4110 ISSUE DATE: 6/6/2012

Page 2 of 5

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

This product does not have exposure limit values. Exposure limit values for some of the components are listed below as a guideline for safe use of this product.

Exposure Standards (AIR):

CAS# 14808-60-7 Silica, crystalline, Quartz

NOHSC TWA: 0.1 mg/m³ (respirable dust)

CAS# 1303-96-4 Borax, anhydrous & pentahydrate

NOHSC TWA: 1.0 mg/m³

CAS# Various Nuisance dusts

NOHSC TWA: 10 mg/m³ (inspirable dust)

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

Frit therefore does not necessarily have any of the properties of its component oxides or metals.

Engineering Controls:

Use local exhaust ventilation.

Ventilation is to be adequate to capture the material at the source, and to ensure that the working environment is below the TWA value by using a local exhaust system.

PERSONAL PROTECTION

Respiratory Protection: A particulate respirator Class P2 conforming to AS1716 suitable for dust should be worn

when this material is being used.

Protective Gloves: Cotton work gloves should be worn.

Eye Protection: Wear general use industrial goggles or safety glasses.

Clothing: Clean full-length overalls should be worn.

Safety Boots: Safety boots should be worn.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: **POWDER** Colour: **OFF-WHITE** Odour: NO ODOUR Melting/Softening Point: > 400 °C Specific Gravity: APPROX. 2.5 Vapour Pressure: **NOT APPLICABLE NOT APPLICABLE** Flashpoint: Flammability Limits: DOES NOT BURN Solubility in water: **NEGLIGIBLE**

1019657 – KMP4110 ISSUE DATE: 6/6/2012

10. STABILITY AND REACTIVITY

Stable at normal ambient conditions.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

ORAL: NO DATA FOUND DERMAL: NO DATA FOUND INHALATION: NO DATA FOUND CARCINOGENICITY: NO DATA FOUND

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 may cause respiratory irritation and discomfort.

Eye: Dust may irritate the eyes – acts as a nuisance dust. Skin: Dust may irritate the skin – acts as a nuisance dust.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity: No information available

Persistence / Degradability:

No information available

Mobility: No information available.

Bioaccummulative

Potential:

No information available.

Environment

Do not allow product to reach waterways, drains and sewers.

Protection:

13. DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, state, and federal regulations.

14. TRANSPORT INFORMATION

Land Transport ADG:

This product does not constitute a hazardous substance in land transport.

Marine Transport IMDG:

This product does not constitute a hazardous substance in sea transport.

Air Transport ICAO/IATA:

This product does not constitute a hazardous substance in air transport.

1019657 - KMP4110 ISSUE DATE: 6/6/2012

Page 4 of 5

15. REGULATORY INFORMATION

Poisons Schedule: None allocated

Refer Section 2 - Hazards Identification

Chemical Inventory Information:

AICS: All components are listed

16. OTHER INFORMATION

Compiled by: Don Goff – Group Leader Development

Date prepared: 6/6/2012 Date Revised: 6/6/2012

Revision Changes: New WHS format

For Industrial Use Only.

KEY:

ACGIH: American Conference of Governmental Industrial Hygienists
ADG Code: Australian Code for Transport of Dangerous Goods by Road & Rail
IMDG Code: International Maritime Code for Transport of Dangerous Goods

NOHSC: National Occupational Health and Safety Commission

STEL: Short Term Exposure Limit TLV: Threshold Limit Value TWA: Time Weighted Average

All information contained in this Data Sheet is as accurate and up-to-date as possible. Since Ferro Corporation (Aust.) Pty.Limited cannot anticipate or control the conditions under which this information may be used, each user should review the information in the specific context of the intended application.

To ensure that the conditions of use for this product are fully understood, reference must be made to the "Technical Data Sheet(s)" and "Terms and Conditions of Sale". If you do not have these documents, please contact Ferro Corporation (Aust.) Pty.Limited immediately to organize your copies prior to use of the product.

Ferro Corporation (Aust.) Pty.Limited makes no warranties, expressed or implied and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

- END OF SDS -