Safety Data Sheet

Hazardous Chemical, Non-Dangerous Goods

1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product Identifier: **Ceramic Glazes of Australia, Kera Glaze, BG**

Recommended Use of the Chemical & Restrictions on Use:

Supplier: Ceramic Glazes of Australia

Supplier Address: 65 Allsops Road
Launching Place
Victoria, 3139
Australia

Telephone: 0409 848 267

Emergency Telephone Number: 0409 848 267

2. HAZARD IDENTIFICATION

Unless otherwise marked, materials are Food-Safe, when applied and fired according to minimum temperatures and atmospheric kiln conditions.

Pigments are pre-calcined spinels and therefore the individual elements and compounds listed in section 3 are not present in hazardous form.

This material is hazardous, according to health criteria of Safe Work Australia

Signal Words:

Warning, Danger

Hazard Classifications:

According to the classification provided by companies to ECHA in REACH registrations this substance is harmful if swallowed, is harmful if inhaled and is suspected of causing cancer.

According to the classification provided by companies to ECHA in REACH registrations this substance is harmful if swallowed and causes serious eye irritation.

According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is very toxic to aquatic life and is very toxic to aquatic life with long lasting effects.

Additionally, may cause damage to organs through prolonged or repeated exposure.

According to the classification provided by companies to ECHA in CLP notifications this substance causes skin irritation.

Acute toxicity (inhalation) - category 4

Acute toxicity (ingestion) - category 4

Carcinogenicity – category 1A

Eye irritation – category 2A

Specific target organ toxicity (repeated exposure) – category 1

Hazard Statements

H302 Harmful if swallowed

H312 Harmful if in contact with skin

H315 Causes skin irritation

H318 Causes serious eye damage

H319 Causes serious eye irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation

H350 May cause cancer

H372 Causes damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

Prevention Precautionary Statements

P102 Keep out of reach of children

P103 Read label before use

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breath dust, fume, gas, mist, or spray.

P261 - Avoid breathing dust

P264 Wash hands, face and all exposed skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this material.

P271 Use only outdoors or in a well-ventilated area.

P273

P281 Use personal protective equipment

P301+P330 If swallowed rinse mouth

P391 Collect spillage

Response Precautionary Statements

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing

P312 - Call a doctor if you feel unwell

Storage Precautionary Statements

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

Disposal Precautionary Statements

P501 - Dispose of contents/container to licensed waste disposal facility

Poison Schedule: Not available

Dangerous Goods Classification

Not classified as Dangerous Goods by the criteria of the 'Australian Code for the Transport of Dangerous Goods by Road & Rail'.

3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO.	PROPORTION
Aluminium Dioxide	1344-28-1	10<30
Cadmium Inclusion	102184-95-2	<10
Copper carbonate	1184-64-1	<10
Cobalt alumina chrome Spinel	68187-40-6	<10
Co-Cr-Al Spinel	68187-11-1	<10
Co-Cr Spinel	68187-49-5	<10
Co-Zn-Si spinel	68412-74-8	<10
Zr-Pr Spinel	68187-15-5	<10
Cd-Zn Spinel	8048-07-5	<10
Co-Cr-Fe Spinel	68186-97-0	<10
Cd Compounds as Spinel	58339-34-7	<10
Cd-Zn-S Spinel	8048-07-5	<10
Iron oxide	1309-37-1	<10
Kaolinite	1332-58-7	10<30
Lead bi-silicate	65997-18-4	<10
Lithium carbonate	554-13-2	<10
Manganese dioxide	1313-13-9	<10
Nepheline syenite	37244-96-5	10<30
Titanium dioxide	13463-67-7	<10
Zinc Oxide	1314-13-2	<10
Zirconium dioxide	14940-68-2	10<30
Silica	14808-60-7	10<30
Calcium carbonate	1317-65-3	10<30
1-chloropentane	543-59-9	<1

4. FIRST AID MEASURES

Description of Necessary First-Aid Measures:

If poisoning occurs, contact Poisons Information Centre, Australia, phone 131126.

Inhalation: Remove victim from exposure. Remove contaminated clothing. Seek medical advice of effects persist.

Skin contact: Remove contaminated clothing and flush skin with running water. If swelling, redness, blistering or irritation occurs, seek medical assistance.

Eye contact: Wash out with water. Seek medical assistance.

Ingestion: Rinse mouth with water. If swallowed, do not induce vomiting. Seek medical assistance.

5. FIRE FIGHTING MEASURES

Hazchem Code: Not applicable.

Suitable Extinguishing Equipment: If material is involved in a fire, use water fog, standard foam, dry agent.

Specific Hazards Arising from the Chemical: Non-combustible material.

Special Protective Equipment & Precautions for Firefighters: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment & Emergency Procedures:

Wear personal protective equipment to prevent exposure via eyes, skin, respiratory or ingestion.

Methods & Materials for Containment and Cleaning Up:

Avoid generating dust.

Clean up with water.

Store spills in sealed containers, labelled appropriately.

Environmental Precautions:

If contamination of crops, sewers or waterways has occurred, advise local emergency services.

7. HANDLING & STORAGE

Precautions for Safe Handling:

Avoid eye and skin contact. Avoid inhalation of dust.

Conditions for Safe Storage:

Store in a cool, dry place, out of direct sunlight. Store away from food-stuffs. Keep container upright. Keep containers closed.

8. EXPSOURE CONTROLS & PERSONAL PROTECTION

The values given below refer to the original pre-calcined composition, and do not represent exposure standards for the overall composition.
National occupational exposure limits as published by Work Safe Australia:

CHEMICAL ENTITY	STEL mg/m3	TWA mg/m3
Aluminium Dioxide	-	15 mg/m3
Cadmium Inclusion	-	0.015 mg/m3
Copper carbonate	-	1 mg/m3
Cobalt alumina chrome	-	0.02 mg/m3
Co-Cr-Al Spinel	-	0.5 mg/m3
Co-Cr Spinel	-	0.5 mg/m3
Co-Zn-Si spinel	-	0.02 mg/m3
Zr-Pr spinel	-	5 mg/m3
Ca-Zn spinel	-	0.01 mg/m3
Iron oxide	-	8hrs, 5 mg/m3
Co-Cr-Fe Spinel	-	0.05 mg/m3
Cd Compounds	-	0.01 mg/m3
Cd-Zn-S Spinel	-	0.01 mg/m3
Kaolinite	-	8hrs, 10mg/m3
Lead bi-silicate	-	0.15 mg/m3
Lithium carbonate	-	10 mg/m3
Manganese dioxide	-	1 mg/m3
Nepheline syenite	-	10 mg/m3
Titanium dioxide	-	10 mg/m3
Zinc Oxide	-	10 mg/m3
Zirconium dioxide	-	5 mg/m3
Silica	-	0.05 mg/m3
Calcium carbonate	-	2 mg/m3
1-chloropentane	-	-

Engineering Controls:

Avoid dust generation

Ensure adequate ventilation or dust extraction

Wash hand thoroughly prior to drinking or eating

Individual Protection Measures, PPE:

Gloves

Full-length clothing

Closed footwear

Safety glasses

Dust mask to appropriate standard AS/NZS standards for particulate dusts.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance:

Odour: Not applicable

Odour Threshold: Not applicable

pH: 9-10

Melting Point: 1060 degrees Celsius

Flash Point: Not applicable

Evaporation Rate: Not applicable

Flammability: Not flammable

Vapour Pressure: Not applicable

Relative Density: 2-2.8

Solubility: Insoluble in water and organic solvents.

Auto-ignition Temperature: Not applicable

10. STABILITY & REACTIVITY

Reactivity:

Chemical Stability: This material is stable when stored and used as directed.

Possibility of Hazardous Reactions:

Conditions to Avoid:

Incompatible Materials:

Hazardous Decomposition Products: Oxides of carbon and nitrogen and other toxic fumes during normal use in firing (sintering).

11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the material is handled and used in accordance with this Safety Data Sheet and the product label. Symptoms or effects may arise if the material is mishandled or overexposure occurs per the following. Always use appropriate personal protective equipment and minimize dust.

Acute Effects:

Inhalation: Material may be an irritant to mucous membranes and respiratory tract.

Skin Contact: Contact with skin may result in irritation.

Ingestion: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract.

Eye Contact: May be an eye irritant. Exposure to dust may cause discomfort due to particulate nature. May cause physical irritation to the eyes.

Acute Toxicity:

Inhalation: This material has been classified as Acute toxicity (inhalation) - category 4

Specific Target Organ Toxicity (single exposure): This material has been classified as non-hazardous.

Chronic Toxicity:

Carcinogenicity: Carcinogenicity – category 1A

Reproductive Toxicity: According to the harmonised classification and labelling (ATP17) approved by the European Union, this substance may damage fertility and may damage the unborn child.

Specific Target Organ Toxicity (repeat exposure): This material has been classified as a Category 1 Hazard.

12.ECOLOGICAL INFORMATION

Ecotoxicity: According to the harmonised classification and labelling (CLP00) approved by the European Union, this substance is very toxic to aquatic life and is very toxic to aquatic life with long lasting effects.

Persistence & Degradability: No data available

Bio-accumulative Potential: No data available

Mobility in Soil: No data available

13.DISPOSAL CONSIDERATIONS

People conducing disposal should ensure that appropriate personal protective equipment is used, see 'Section 8-Exposure Controls & Personal Protection' in this SDS.

14. TRANSPORT INFORMATION

Road & Rail Transport

Not classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail'

Marine Transport

Not classified as Dangerous Goods by the criteria of the 'International Maritime Dangerous Goods Code.

Air Transport

Not classified as Dangerous Goods by the criteria of the 'The International Air Transport Association'.

15. REGULATORY INFORMATION

Not available.

16. OTHER INFORMATION

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