

Clays, Glazes, Kilns, Materials and Equipment for Craft and Industrial Ceramics.

MATERIAL SAFETY DATA SHEET

Release Date: 06/07/2007

1 Identification of the preparation/Supplier reference 3415 Calcium Chloride

Synonyms: Calcium Chloride

Supplier: Potclays Limited, Brickkiln Lane, Stoke on Trent, ST4 7BP

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2 Composition

	CAS	EINECS	%
Calcium Chloride	10043-52-4	233-140-8	>99%

3 Health Hazard Identification

Inhalation: Low toxicity dust. Excessive exposure may cause severe irritation due to alkalinity.

Ingestion: Significant ingestion may result in gastro-intestinal perforation.

Eyes: May cause physical irritation and inflammation.

Skin: The material is not a primary irritant, but as with any abrasive powder it may give rise to minor irritation.

4 First Aid Measures

Inhalation: Remove patient to fresh air, loosen tight clothing and seek medical attention.

Ingestion: Do not induce vomiting, seek medical advice.

Eyes: Wash immediately with copious amounts of water.

Skin: Wash affected areas with water.

5 Fire Fighting Measures

Extinguishing Media: Suitable for surrounding fire conditions.

Special Exposure Hazard: May emit harmful or toxic fumes.

Personal Protective Equip: Self contained breathing apparatus may be required.

6 Accidental Release Measures

Leaks and Spills: Use suitable vacuum equipment where reasonably practicable.
Personal Protective Equip: Respiratory protective equipment.

7 Handling and Storage

Handling: Do not eat, drink, or smoke in areas where the material is used. Wash thoroughly after handling the material.
Storage: Store in dry area.

8 Exposure Control/Personal Protective Equipment

Engineering Controls: Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.
Personal Protective Equip: Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standards prEN 140, 141, 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.

9 Physical and Chemical Properties

Appearance and Odour: White/Colourless Crystals.
Flash Point (°C): Not applicable.
Flammability: Not applicable.
Explosive Properties: Non-explosive.
Oxidising Properties: None
Specific Gravity: 2
pH Value: Not applicable.
Melting Point (°C): >1000°C

10 Stability and Reactivity

Chemical Stability: The material is stable.
Conditions/materials to avoid: Avoid zinc, strong acids, boric oxide and calcium oxide mixes.
Hazardous Decomposition Products: None known.
Hazardous Polymerization Products: None.

11 Toxicology Information

Acute Toxicology: LD50 Oral: Not known
LD50 Dermal: Not known
LD50 Inhalation: Not known
Health Effects: Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs.

12 Ecological Information

Ecotoxicity: None
Persistence: The material is chemically stable and will persist in the environment.

13 Disposal

Dispose in accordance with current waste disposal regulations (for UK - Control of Pollution (Special Waste) Regulations 1980). Landfill is the most appropriate method.

14 Transport Information

UN/SI No: Not restricted
UN Class: Not restricted
Packing Group: Not restricted
Road UK: Not restricted
ADR: Not restricted
Sea IMO: Not restricted
Air ICAO: Not restricted

15 Regulatory Information

Refer to HSE Guidance Note EH40

EC Supply Labelling: Harmful- Irritant
R-Phrases: R20/22 Harmful by inhalation and if swallowed.
R36/37/38 Irritating to the eye, the respiratory system and the skin
S-Phrases: S20/21 When using do not eat, drink or smoke
S22/23 Do not breathe dust or spray
S26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

Maximum Exposure Limits:	mg/m ³	8 hr TWA	% in product
Total Inhalable Dust	10		Not known
Total Respirable Dust	5		Not known

In accordance with HSE Approved Code of Practice for CHIP. The recipient is reminded of their obligations under both the Health and Safety at Work Act (HSWA) and the Control of Substances Hazardous to Health Regulations (COSHH), and that the information in any safety data sheet does not constitute the user's assessment of workplace risk.

16 Other Information

References:
COSHH ACOP HSC approved Code of Practice for the Control of Substances Hazardous to Health Regulations 1994.
CHIP 96 Chemicals (Hazard Information and Packaging for Supply) Regulations 1996.
CHIP SDS ACOPS HSC approved Code of Practice for Safety Data Sheets in accordance with regulation 6 of the CHIP Regulations.
HSE EH40 HSE Guidance note EH40 on Occupational Exposure Limits to be used in conjunction with the COSHH regulations.

17 National Legislation

UK Legislation:

SI1993/1746 Chemicals (Hazard Information and Packaging) Regulations 1993.

Environmental Protection (Duty of Care) Regulations 1992 SI 2839

Carriage of Dangerous Goods by Road and Rail Regulations 1994.

Control of Pollution Act 1974.

Environmental Protection Act 1990.

Highly Flammable Liquids and Petroleum Spirit Regulations 1972.

EH40 Occupational Exposure Limits.

SI1988/1657 Control of Substances Hazardous to Health Regulations.

This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations.

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