



# CLAYMAN

## SAFETY DATA SHEET

5684 | CALCIUM BORATE FRIT

### 1. Identification of substance/preparation and of the company undertaking

<b>Trade Name:</b>	Calcium Borate Frit
<b>Chemical Name:</b>	Frit
<b>Synonyms:</b>	None

### 2. Composition /information on ingredients

Component	CAS	EINECS	% of composition
*Colemanite	12291-65-5		100%
Ceramic Frit (Ground)	65997-18-4		100%

### 3. Hazards Identification

<b>Inhalation</b>	Excessive exposure may cause symptoms of chronic lung disease.
<b>Ingestion</b>	The product is of low solubility in body fluids and it is likely to be of low acute toxicity.
<b>Eyes</b>	May cause physical irritation and inflammation.
<b>Skin</b>	The material is not a primary irritant but as with any abrasive powder it may give rise to minor irritation.

### 4. First Aid Measures

<b>Inhalation</b>	Remove patient to fresh air, loosen tight clothing and seek medical attention.
<b>Ingestion</b>	Do not induce vomiting, seek medical advice.
<b>Eyes</b>	Wash immediately with copious amounts of water.
<b>Skin</b>	Wash affected areas with water.

### 5. Fire Fighting Hazards

<b>Extinguishing media</b>	It is compatible with standard fire fighting technique (e.g. use of water carbon dioxide, dry powder, sand and chemical foam extinguishers).
<b>Special Exposure hazard</b>	None.
<b>Personal protective equipment</b>	None other than required for surrounding fire condition.



## 6. Accidental Release Measure

<b>Leaks and Spills</b>	Collect dry materials by wet sweeping or vacuum with efficient particulate filter.
<b>Personal protective equipment</b>	Respiratory protective equipment.

## 7. Handling & Storage

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

## 8. Exposure Control/Personal Protection

<b>Engineering controls</b>	Adequate ventilation should be provided so that Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.	
<b>Personal protective equipment</b>	Where LEV is not practicable and exposure is likely to be excessive, approved respiratory protection to CEN standard prEN 140, 1411 143 or 149 should be worn. Protective gloves and overalls are recommended for prolonged contact.	
<b>UK Occupational exposure limits (Refer to HSE Guidance note EH40)</b>	Mg/m <sup>3</sup> 8 hr TWA	% in product
<b>Lead compounds (as Pb)</b>	0.15	57

## 9. Physical & Chemical Properties

<b>Appearance and Odour</b>	Off-white powder odourless
<b>Flash point (°C)</b>	Not applicable
<b>Flammability</b>	Not known
<b>Explosive properties</b>	Non-explosive
<b>Oxidizing properties</b>	None
<b>Specific gravity</b>	2-3
<b>pH value</b>	9.3
<b>Melting point (°C)</b>	930°C* between 900°C and 1180°C

## 10. Stability & Reactivity

<b>Chemical stability</b>	The material is stable
<b>Conditions/materials to avoid</b>	None known
<b>Hazardous decomposition products</b>	None known
<b>Hazardous polymerization products</b>	None



## 11. Toxicological Information

<b>Acute toxicology</b>	LD <sub>50</sub> Oral (rat)	>2000mg/kg
	LD <sub>50</sub> Dermal	Not known
	LC <sub>50</sub> Inhalation	Not known
<b>Health effects</b>	Prolonged or repeated exposure above occupational exposure standards may cause fibrosis of the lungs.	

## 12. Ecological Information

<b>Ecotoxicity</b>	Not known
<b>Persistence</b>	The product is chemically stable and will persist in the environment.

## 13. Disposal Considerations

Dispose in accordance with current waste Disposal regulations (for UK – Control of Pollution {Special Waste Regulations 1996}). Landfill is the most appropriate method.

## 14. Transport Information

<b>UN/SI No</b>	None	
<b>UN Class</b>	Not restricted	
<b>Packing group</b>	Not restricted	
<b>Road</b>	UK	Not restricted
	ADR	Not restricted
<b>Sea</b>	IMO	Not restricted
<b>Air</b>	ICAO	Not restricted



## 15. Regulatory Information

<b>EC Supply Labelling</b>	None required by directive 88/379/EEC		
<b>R Phrases</b>	None		
<b>S phrases</b>	Optional for dusty powders		
	S20/21	When using do not eat, drink or smoke.	
	S38	In case of sufficient ventilation wear suitable respiratory equipment.	

<b>UK Occupational exposures limits*</b>	<b>Mg/m<sup>3</sup></b>	<b>8 hr TWA</b>	<b>% in product</b>
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\*refer to HSE Guidance note EH40

All products containing lead compounds are subject to the Control of Lead at Work Regulations via the corresponding HSC Approved Code of Practice.

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

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

### Footnote:

### LIABILITY

Such information is the best of Clayman's knowledge and belief accurate at the date of publication, which is the date generated automatically on the day of printing of this document. However, no representation, warranty of guarantee is made as to its accuracy, reliability of completeness. It is the user's responsibility to satisfy itself as to the suitability and completeness of such information for their own particular use.



## THIRD PARTY MATERIALS

Insofar as materials not manufactured or supplied by Clayman are used in conjunction with, or instead of Clayman materials, it is the responsibility of the customer itself to obtain from the manufacturer or supplier all technical data and other properties relating to these and other materials and to obtain all necessary information relating to them. No liability can be accepted in respect of the use of Clayman materials in conjunctions with other materials.

## 17. National Legislation

<b>UK Legislation</b>	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 The Control of Substances Hazardous to Health Regulations <b>Note</b> - This is not an exhaustive list and users should satisfy themselves that they comply with all relevant National Regulations
<b>Important Notes</b>	Design CHIP-002 The material must only be used for its stated purpose and the information contained within this data sheet is offered solely for use in the evaluation of this product in respect of safety, health and environmental hazards. Further reference can be made to our standard terms and conditions of sale, a copy of which is available on request.