



CLAYMAN

SAFETY DATA SHEET

5685 HIGH ALKALINE FRIT

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

Trade Name	High Alkaline Frit
Chemical Name	
Synonyms	High alkaline frit
Supplier	Clayman

2. Composition /information on ingredients

Component	CAS	EINECS	% in composition
Ground barium	65997-18-4		100%
Containing frit			(5-10% as Ba)

3. Hazards Identification

Inhalation	Due to the barium content of the product, which is partially dissolved in an acidic environment, the materials is potentially harmful by ingestion and inhalation.
Ingestion	If ingested in excessive amounts acute poisoning may result, symptoms of which include convulsive tremors, vomiting and diarrhoea
Eyes	May cause physical irritation and inflammation
Skin	May cause irritation and inflammation

4. First Aid Measures

Inhalation	Remove patient to fresh air, loosen tight clothing and seek medical attention
Ingestion	Do not induce vomiting. Rinse mouth with water and seek medical advice
Eyes	Wash immediately with copious amounts of water for 15 minutes and seek medical assistance
Skin	Wash affected areas thoroughly with water and seek medical advice if irritation persists



5. Fire Fighting Hazards

Extinguishing Media	The product is not combustible. It is compatible with standard fire fighting techniques
Special Exposure Hazard	None
Personal protective equipment	None other than required for surrounding fire conditions

6. Accidental Release Measure

Leaks and Spills	Collect dry material by wet sweeping or vacuum with efficient particular filter
Personal protective equipment	Respiratory protective equipment

7. Handling & 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 Protection

Engineering controls	Adequate ventilation should be provided so that the Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended
Person protective equipment	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 & Chemical Properties

Appearance and Odour	Odourless, white powder
Flash point (°C)	Not applicable
Flammability	Not known
Explosive properties	Non explosive
Oxidising properties	Non oxidising
Specific gravity	2.5
pH value	9.3
Melting point (°C)	About 750 °C



10. Stability & Reactivity

Chemical stability	The material is stable under normal conditions
Conditions/materials to avoid	The product will undergo partial dissolution in acids
Hazardous decomposition products	Not known
Hazardous polymerisation products	None

11. Toxicological Information

Acute toxicology	No specific data available for this product
Health effects	Barium poisoning affects the lung. Risk of lung damage on excessive, repeated inhalation of dust

12. Ecological Information

Ecotoxicity	None available
Persistence	The product is essentially insoluble in water, but soluble in acidic media

13. Disposal Considerations

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.	None	
UN Class	Not classified	
Packing group	Not classified	
Road	UK	Not classified
	ADR	Not classified
Sea	IMO	Not classified
Air	ICAO	Not classified



15. Regulatory Information

EC supply Labelling		
R-Phrases	R20/R22	Harmful by inhalation and if swallowing
S-Phrases	S28	After contact with skin, wash immediately with plenty of water
UK Occupational exposures limits*	Mg/m³	8 hr TWA % in product
* refer to HSE Guidance note EH40		

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 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

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 COSH regulations