



# CLAYMAN

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## SAFETY DATA SHEET

5116	BONE ASH
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1. Identification of substance/preparation and of the company undertaking	
Trade Name	Bone Ash
Chemical Name	Tricalcium phosphate
Synonyms	None

2. Composition /information on ingredients			
Component	CAS	EINECS	% of composition
Bone Ash	68439-86-1	2704235	100
The product is cattle bones which have been degelatinised to remove fats and protein, then calcined at > 1000°C in an oxidising atmosphere to produce tricalcium phosphate $CA_{10}(PO_4)_6(OH)_2$			

3. Hazards Identification	
Inhalation	Excessive exposure may cause symptoms of chronic lung disease.
Ingestion	The product is of low solubility in body fluids and it is likely to be of low toxicity.
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. The wet powder may cause some irritation due to high pH.

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 Hazards	
Extinguishing Media	Suitable for surrounding fire conditions
Special Exposure Hazard	None
Personal Protective Equipment	None other than required for surrounding fire conditions.

6. Accidental Release Measure	
Leaks and Spills	Use suitable vacuum equipment where reasonably practicable, otherwise damp down and scoop into a receptacle.
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 Occupational Exposure Limits are not exceeded. Local Exhaust Ventilation is normally recommended.
Personal 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	White powder, odourless
Flash point (°C)	Not applicable
Flammability	Not applicable
Explosive properties	Non-explosive
Oxidising properties	None
Specific gravity	3-5
pH value	7 (insoluble in water)
Melting point (°C)	Not available



10. Stability & Reactivity	
Chemical stability	The material is stable
Conditions/ materials to avoid	None known
Hazardous decomposition products	None known
Hazardous polymerisation products	None

11. Toxicological Information			
Acute toxicology	LD50	Oral	>2000mg/kg
	LD50	Dermal	Not known
	LD50	Inhalation	Not known
Health Affects	Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lung.		

12. Ecological Information	
Ecotoxicity	No specific data available but the product is not expected to present a hazard.
Persistence	No specific data available but the product is not expected to present a hazard,

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.	Not classified	
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		Non Hazardous		
R Phases		None		
S Phases		Optional for dusty powders		
		S20/21	When using do not eat, drink or smoke.	
		S38	In case of insufficient ventilation wear suitable respiratory equipment.	
UK Occupational exposures limits (Refer to HSE Guidance Note EH40)				
		Mg/m <sup>3</sup>	8 hr TWA	% in product
Dust	Total Inhalable		10	-
	Total Respirable		5	-
<p>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 the workplace risk.</p>				

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.