

SAFETY DATA SHEET **BONE ASH** (in compliance with REACH Regulation EC 1907/2006)

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	SUBSTANCE	BONE ASH
	SYNONYMS	Tri-Calciumphosphate, TCP
	REACH NUMBER	Not classified
1.2	COMPANY	CERADEL 53 RUE DE LA FILATURE 87350 PANAZOL +33(0)5.55.35.02.35 ceradel@ceradel.fr
1.3	EMERGENCY	ORFILA :+33(0)1.45.42.59.59

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified
Human Health	Irritant cat 2 – H315 & H319
Environment	Not classified

2.2 Label elements

Label in Accordance With (EC) No. 1272/2008



Signal Word	Warning	
Hazard Statements	H302 H315 H319 H335	Harmful if swallowed Causes skin irritation Causes serious eye irritation Dry dust may cause respiratory irritation

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Precautionary Statements

P260

Do not breath dust

P280

Wear protective gloves/eye protection

P301+312

If swallowed get medical advice/attention if you feel unwell

2.3 Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Mineralogical: The major component is hydroxyapatite with a small amount of alkaline earth oxides or their natural derivatives present.

CAS No

EINECS

REACH No

Bone

68439-86-1

2704235

Not classified

Ash

Chemical: A typical XRF analysis by an independent UKAS accredited laboratory is shown in the appropriate Appendix SDS-WBA.

Physical: Supplied either

- a) As a milled suspension in water (slop) having a solids content between 60% and 70% depending on application,
- b) As a semi-dry noodle having a nominal solids content of 86%-88%.

The product is produced from animal by-products that are fit for human consumption.

This product is considered non-hazardous and does not contain hazardous components.

SECTION 4: FIRST AID MEASURES

Eye Contact: Wash with copious amounts of clean water.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Wash out mouth thoroughly with water. Drink plenty of water.

If any symptoms develop seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

Non Combustible.

No special fire-fighting equipment or measures required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Slop spillages should be removed with copious amounts of water to the factory drainage system, observing effluent control limits. Spillage of semi-dry or dry product should be removed by vacuum methods.

SECTION 7: HANDLING AND STORAGE

When handling all materials, observe good standards of industrial hygiene, and take care to prevent generation of air-borne dust. In the case of semi-dry products maintain integrity of moisture-proof packaging.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION		
When handling the product, it is recommended that protective clothing, goggles and gloves are used to minimise physical exposure to the product.		
Where dried product is involved ventilation should be adequate to ensure that Occupational Exposure Limits of 10mg/m ³ (TWA-8 hours) are not exceeded, or Local Exhaust Ventilation provided.		
Should ventilation measures be found to be unsatisfactory, approved respiratory protection equipment should be worn.		
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES		
Appearance:	White powder - may be in slop or semi-dry form.	
Odour:	Odourless	
pH:	In slop form nominally 13.	
Boiling Point:	N/A.	
Melting Point:	Above 1150°C	
Flammability:	N/A	
SECTION 10: STABILITY AND REACTIVITY		
No known hazardous reactions/decomposition products associated with this product.		
SECTION 11: TOXICOLOGICAL INFORMATION		
No toxic effects are known, but prolonged exposure to air-borne dust constitutes an alkaline irritant.		
SECTION 12: ECOLOGICAL INFORMATION		
Non-biodegradable, but no known Eco toxicity effects are expected.		
SECTION 13: DISPOSAL CONSIDERATIONS		
Can be disposed of as a non-toxic material into approved land-fill sites in accordance with current Waste Disposal Regulations.		
SECTION 14: TRANSPORT INFORMATION		
Not classified as a substance hazardous for transport.		
SECTION 15: REGULATORY INFORMATION		
Not classified as dangerous to supply. The dry product can be regarded as an alkaline irritant.		
References		
Occupational Exposure Limits - Health and Safety Executive EH40.		
Dust - General Principles of Protection - Health and Safety Executive EH44.		
SECTION 16: OTHER INFORMATION		
Revision Date	13/06/2018	
Revision	11	
Supersedes Date	15/02/2018	
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APPENDIX SDS-WBA

Typical XRF Analysis (% age by wt) as determined by an independent UKAS accredited laboratory:

	% age
Silica (SiO ₂)	1.81
Titania (TiO ₂)	0.01
Alumina (Al ₂ O ₃)	0.50
Ferric Oxide (Fe ₂ O ₃)	0.02
Lime (CaO)	52.13
Magnesia (MgO)	1.14
Potash (K ₂ O)	0.14
Soda (Na ₂ O)	0.67
Phosphorus Pentoxide (P ₂ O ₅)	40.42
Lead Oxide (PbO)	<0.02
Barium Oxide (BaO)	0.23
Loss of Ignition at 1200°C	2.04