



SAFETY DATA SHEET

5111 ZIRCON BATT WASH

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

Trade Name:	Zircon Batt Wash
Chemical name	Mixture minerals and chemicals
Synonyms	None

2. Composition /information on ingredients

Component	CAS	EINECS	% of composition
Zircon	14940-68-2	2390196	>97
Bentonite	1302-78-9	2151085	<1½
Sodium carboxymethyl cellulose	9004-32-4	No polymers are on EICECS, but its components are	<½
Biocides	The chemical composition of the biocides is very complex and we will provide more information on request if adequate reason is demonstrated.	The chemical composition of the biocides is very complex and we will provide more information on request if adequate reason is demonstrated.	0 to 0.6

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 acute 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. Biocides sometimes cause skin reaction through prolonged or excessive contact.
NOTE:	Zircon is a minor radioactivity hazard. Refer to Sections 11 and 15.



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 & 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 & Odour	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 polymerization products	None known

11. Toxicological Information

Acute toxicology	LD ₅₀	Oral	> 2000 mg/kg
	LD ₅₀	Dermal	Not known
	LC ₅₀	Inhalation	Not known
Health effects	Prolonged or repeated exposure above Occupational Exposure Standards may cause fibrosis of the lungs.		

Zircon contains small amounts of thorium and uranium and is classified as a radioactive substance by the Ionising Radiations Regulations 1985. Grades of zircon supplied by Clayman have a particularly small percentage of Thorium and Uranium.

Specific activity is typically 0.7 Bq/g to TH₂₃₂, 3 Bq/g to U₂₃₈.

Measured dose rates are typically as follows:-

At the surface of a bag of sand	3.0 uSv/hr
At the surface of a heap of sand	4.5 uSv/hr
At 0.5m distance from that heap	2.0 uSv/hr

12. Ecological Information

Ecotoxicity	Not known
Persistence	Not known



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	None requires by directive 88/379/EEC and subsequent amendments	
R-Phrases	None	
S-Phrases	None	
	Optional S Phrases	
	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/m³ 8 hr TWA	% in product
Dusts, due to Th and U	1.3	

Also refer to the Ionising Radiations Regulations 1985

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

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