

1. Identification of the Substance, Preparation and Company

Product Name	:	Fordacal Grades
Product Type	:	Marble Powder
Mineral Name	:	Calcium Carbonate, Marble or Calcite
CTCN Number	:	2509 0000
EEC Number	:	Not applicable (natural mineral)
EINECS Number	:	207-439-9
RTECS Number	:	Not applicable (non-toxic)
Supplier	:	Minelco Limited Free Wharf, Brighton Road Shoreham by Sea, West Sussex BN43 6RE UK
Emergency Telephone	:	+44 (0) 1273 452331 (Office Hours)
E-mail	:	Minelco.ltd@minelco.com
REACH registration Numbers	:	Exempt Products
Material Uses/Applications	:	Applications include sealant applications, surface coatings, oral hygiene products, household products, decorative coatings, paints and PVC plastisols.

2. Hazards Identification

Routes of exposure	:	Inhalation and Ingestion.
Health hazards	:	Calcium Carbonate is of low acute toxicity, but prolonged exposure to any mineral dust could cause respiratory problems.
Symptoms of exposure (Acute effects)	:	None known.
Symptoms of exposure (Chronic effects)	:	None known.
Medical conditions aggravated by exposure	:	None known.
Known synergists	:	None known.
Explosion hazards	:	None.
Fire hazards	:	None.
Corrosion hazards	:	None.

3. Composition/Information on Ingredients

Chemical Name	CAS Number	% of Composition	Dust Exposure Limits	
			LTEL 8hr TWA (mg/m ³) Total	LTEL 8hr TWA (mg/m ³) Respirable
Calcium Carbonate, Marble or Calcite	471-34-1	95 - 99	10	4
Crystalline Silica, Quartz	14808-60-7	<1		LTEL 8hr TWA (mg/m ³) Respirable 0.1

4. First Aid Measures

Skin contact	:	Wash thoroughly with soap and water after use.
Eye contact	:	Irrigate thoroughly with water. Obtain medical advice if any pain or redness persists.
Ingestion	:	There are no known adverse effects. If ingested in large quantities, wash mouth out with water and give water to drink. Do not induce vomiting.
Inhalation	:	If inhaled in large quantities and mechanical irritation or discomfort occurs, allow the patient to rest in a well-ventilated room.
Injection under pressure	:	Not applicable.
Antidote	:	Not applicable.
Advice to physicians	:	No special requirements.

In all cases should symptoms persist seek medical advice.

5. Fire Fighting Measures

Non-flammable, no special precautions necessary	:	
Extinguishing media	:	Not applicable.
Special exposure hazard	:	Not applicable.
Protective equipment	:	Not applicable.

6. Accidental Release Measures

Leaks and Spills	:	Vacuum spillages.
Personal precautions	:	No special requirements.
Environmental precautions	:	No special requirements.

7. Handling and Storage

Handling precaution	:	Avoid creating airborne dust wherever possible. Where dust is generated then engineering dust control measures, e.g. LEV, should be considered.
Storage precautions	:	No special precautions.
Shelf life	:	indefinite.
Specific uses	:	N/A

8. Exposure Controls/Personal Protection

Exposure limit values	:	As per HSE Guidance Notes EH40. See section 3.
Exposure controls	:	Use appropriate engineering controls to maintain dust levels below LTEL-TWA limits.
Respiratory protection	:	Dust masks conforming to EN149 FFP2S or FFP3S should be used if LTEL-TWA limits are exceeded.
Personal protection	:	No special precautions.
Environmental exposure controls	:	Ensure compliance with statutory environmental legislation.

9. Physical and Chemical Properties

Appearance and odour	:	White powder, odour free.
Boiling point °C	:	Not applicable.
Melting Point °C	:	Not applicable.
Flash point °C	:	Not applicable.
Flammability	:	Non flammable.
Oxidising properties	:	None.
Vapour pressure mPa	:	Not applicable.
Density at 20°C (Kg/m ³)	:	Approx. 500 (Variable depending on grade).
Solubility	:	Virtually insoluble.
Specific gravity (Water = 1)	:	Approximately 2.7.
Evaporation Rate (Butyl Acetate = 1)	:	Not applicable.

Partition coefficient (Octan-1-ol/water)	:	Not applicable.
pH value of 10% aqueous slurry	:	Approximately 9.
Gross molecular formula	:	CaCO ₃ .
Viscosity	:	Not applicable.
Explosion limit	:	Not applicable.

10. Stability and Reactivity

Chemical stability	:	Material is stable under normal ambient conditions.
Conditions to avoid	:	None.
Materials to avoid	:	Reacts with mineral acids evolving CO ₂ .
Hazardous decomposition products	:	None known.
Hazardous polymerisation	:	Not applicable.

11. Toxicological Information

Acute Toxicity: -

Oral LD ₅₀ (rat) (mg/kg)	:	6450
Dermal LD ₅₀ (rat) (mg/kg)	:	Not known, but information available shows material to be non-toxic.
Inhalation LC ₅₀ 4hr (rat) (mg/l)	:	
Irritation to skin	:	Can cause mild irritation.
Irritation to eyes	:	Can cause mild irritation.
Respiratory sensitisation	:	Not known, but information available shows material to be non-toxic.
Skin sensitisation	:	
Repeated dose toxicity	:	
Mutagenicity	:	
Carcinogenicity	:	
Reproductive toxicity	:	

The review of available experimental data suggests that over exposure to respirable crystalline silica (RCS) dust can cause silicosis, a form of progressive pulmonary fibrosis. Long-term exposure to high levels of RCS dust can also lead to an increased risk of developing lung cancer. However, the phase 2 review carried out by the HSE (EH75/5) concludes that although RCS is a cause of lung cancer in humans, it is not a potent carcinogen. In July 2006 the Health and Safety Commission agreed to revise the Workplace Exposure Limit (WEL) for respirable crystalline silica to 0.1mg/m³ and note that this is being kept under review.

12. Ecological Information

Ecotoxicity	:	No information available, but since the material is a naturally occurring substance, unreactive, insoluble and non-biodegradable no ecological problem is known or expected.
Mobility	:	
Persistence & degradability	:	
Bioaccumulative potential	:	
Other adverse effects	:	

13. Disposal Information

Containment techniques	:	No special requirements.
Clean-up procedures	:	Vacuum preferred but simpler methods are acceptable.
Waste disposal	:	No special precautions necessary other than compliances with local regulations for non-hazardous materials.

14. Transport Information

United Nations Number	:	}	Not applicable as material is classified as non-hazardous.
ADR/RID Class	:		
Packing Group	:		
IMDG Code	:		
ICAO/IATA	:		
IMO Shipping name	:		
IATA Shipping name	:		
ADR Shipping name	:		
RID Shipping name	:		

15. Regulatory Information

(EC regulatory Information)		}	Not applicable as material is classified as non-hazardous.
EC Supply labelling	:		
Label name	:		
Classification & Symbol	:		
Risk Phrases	:		
Safety Phrases	:		
FAO Hazard labelling	:		

16. Other Information

Training	:	Training should be given to employees, in how to handle the material without generating dust or spillages.
Technical Contact Point	:	Minelco Limited, Raynesway, Derby DE21 7BE, UK

MSDS

Main References	:	Control of Substances Hazardous to Health (4th Ed). HSE L5 2002 The Approved Supply List (7 th Ed). HSE L129 2002 The Compilation of Safety Data Sheets (3 rd Ed). HSE L130 2002 Approved Classification & Labelling Guide (5 th Ed). HSE L131 2002 Workplace Exposure Limits - 2005. HSE EH40/2005 Workplace Exposure Limits - Supplement 2007. HSE EH40/2005 EC Commission Directive 2001/58/EC EC Commission Regulation 1907/2006 Chemical Hazard Alert Notice 35 - RCS. CHAN 35. HSE 2003 Respirable Crystalline Silica - Phase 1. HSE EH75/4. HSE 2002 Respirable Crystalline Silica - Phase 2. HSE EH75/5. HSE 2003. Respirable Crystalline Silica. HSE EH59/2. HSE 1997.
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