

# Material Safety Data Sheet

## 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	:	<b>Minelco Limited</b> Free Wharf, Brighton Road Shoreham by Sea, West Sussex BN43 6RE UK
Emergency Telephone	:	+44 (0) 1273 452331 (Office Hours)
E-mail	:	<a href="mailto:Minelco.ltd@minelco.com">Minelco.ltd@minelco.com</a>
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 <sup>3</sup> ) Total	LTEL 8hr TWA (mg/m <sup>3</sup> ) 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 <sup>3</sup> ) 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 <sup>3</sup> )	:	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 <sub>3</sub> .
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 <sub>2</sub> .
Hazardous decomposition products	:	None known.
Hazardous polymerisation	:	Not applicable.

### 11. Toxicological Information

#### Acute Toxicity: -

Oral LD <sub>50</sub> (rat) (mg/kg)	:	6450
Dermal LD <sub>50</sub> (rat) (mg/kg)	:	} Not known, but information available shows material to be non-toxic.
Inhalation LC <sub>50</sub> 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/m<sup>3</sup> 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 <sup>th</sup> Ed). HSE L129 2002 The Compilation of Safety Data Sheets (3 <sup>rd</sup> Ed). HSE L130 2002 Approved Classification & Labelling Guide (5 <sup>th</sup> 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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