

Material Safety Data Sheet (MSDS)



Product: Calcium Carbonate (Limestone, Ground)

This document is prepared in accordance with the Australian National Code of Practice: NOHSC: 2011(2003).
This Document is in Conformity with regulation (EC) 1907 / 2006 Annex II.

NOT HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name:	Calcium Carbonate (Limestone Ground) other terms for Limestone are Calcite or Marble	
Trade Names:	<u>Omyacarb[®]</u> 1, 2, 5, 8, 10, 15, 20, 40,50 Marble Chips (0,00,000), White Pool Dust	<u>Product Uses:</u> Paints, Coatings, adhesives, grouts Textured coatings. Terazzo
	<u>Circal[®]</u> 60/16, Y Grade, 600, 1000, T Grade	Jointing cement filler, drilling muds, textured coatings, PVC tiles
	<u>Limestone</u> Microfine, Y Grade, T Grade, DD, DD12, DD135, PF, Abgrit, Selgrit, F70, Superfine, Agricultural Grade, Omyacal 50 [®] , Omyacal [®] 70, Omyacal [®] 12, Road Base, 6mm, Moonglow [®] Topping (10mm), Limestone 60/16	Glass, agricultural applications, animal feed, PVC tiles, and other applications
	Stonedust	Coalmine stone-dusting
	<u>Betocarb[®]</u> 1, 10, 12	Concrete improver
Other Names:	Natural Calcium Carbonate, Calcite, Limestone, Whiting, Marble, Chips	
Supplier Name:	Omya Australia Pty Ltd (ACN 001 682 533)	
Address:	Suite 202, 280 Pacific Highway, LINDFIELD NSW 2070.	
Telephone Number:	+61 2 9416 6077	
Facsimile Number:	+61 2 9416 8008	
Emergency Number:	0419 498 007 (from within Australia) +61 419 498 007 (from outside of Australia) Emergency contact service provided by Omya - Australia (Operates Monday to Friday, 8:00am to 5:00pm Australian EST)	

2. HAZARDS IDENTIFICATION

Hazard Classification:	Non Hazardous Substance according to the Criteria of NOHSC. Non Dangerous Good according to the Australian Dangerous Goods Code.
Risk Phrase(s):	None
Safety Phrase(s):	None
General Notes:	Limestone powder particles may cause irritation to the skin and eyes. Prolonged and repeated exposure may cause irritation to the respiratory system. Dust exposure standards apply.

3. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	Name	CAS	Proportion
	Limestone (CaCO ₃)	1317-65-3	>99%
	Natural, Limestone Ground - Calcium Carbonate. Also referred to as Calcite or Marble.		
	Naturally occurring sedimentary rock. Limestone (Ground): CAS-No. 1317-65-3		
	Ground with non-hazardous auxiliary agents		
	Silica, quartz (CAS No 14808-60-7) naturally-occurring impurity of Limestone in trace amounts. Magnesium Carbonate (CAS No 13717-00-5) is also naturally present.		

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4. FIRST AID MEASURES

EYE CONTACT:



Rinse with plenty of clean water.

In case of continued irritation, seek medical advice.

SKIN CONTACT:



Wash with water.

INHALATION:

Move person to fresh air.

In case of indisposition, seek medical advice.

INGESTION:

Symptomatic treatment.

In case of indisposition, seek medical advice.

5. FIRE FIGHTING MEASURES

FLAMABILITY:

Non-flammable, non-combustible substance.

SPECIAL RISKS:

Can release CO₂ or CO in extreme temperature conditions i.e. > 825 °C.

EXTINGUISHING AGENTS:

All common extinguishing media compatible.

HAZCHEM CODE:

Not regulated.

6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS:

Will not dissolve in water. Do not flush down drains or into water ways.

CONTAINMENT AND

Slippery when wet – cordon off for road and pedestrian traffic. Avoid contact with acids.

CLEAN UP:

In case of spillage, avoid generating dust, wear respiratory protection when visibly dusty or for prolonged exposure, and sweep or vacuum. Very fine products should be collected in bag/containers, label appropriately.

May be lightly wetted down to minimize dust.

Cover or lightly wet down to minimize dust generation if spills cannot be dealt with immediately.

7. HANDLING AND STORAGE

HANDLING:

Avoid generating airborne dust during handling and storage.

Avoid prolonged contact with skin.

Avoid heavy or prolonged dust inhalation (See TWA Section 8).

Engineering dust controls should be used ahead of, or in combination with the wearing of appropriate respiratory protection.

STORAGE:

Store in original packaging, under dry conditions.

Do not store with acids.

Keep fine products stored in closed containers. Avoid the generation of airborne dust.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

HAND PROTECTION:



Wear gloves to prevent irritation and drying out skin.

EYE PROTECTION:



Wear goggles if visible dust in air or if irritation occurs.

Do not wear contact lenses when handling this product, as particles may get trapped underneath and cause irritation.

SKIN PROTECTION:

Clothing fully covering skin, full length pants, long sleeved overalls, with close fittings at openings. Footwear to avoid dust penetration.

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RESPIRATORY PROTECTION

Maintain air concentrations below the occupational exposure standards, using engineering controls if necessary.



Where this is not possible, wear an approved P1 dust mask where concentration is less than 10 times permissible exposure limit.

ASCC* TWA for CaCO₃ Inhalable Dust in Australia is: 3 mg/m³

ACGIH** TLV for CaCO₃ Respirable Dust in Australia is: 10 mg/m³

ASCC TWA for Respirable Quartz in Australia is: 0.1 mg/m³

*Australian Safety and Compensation Council

** American Conference of Governmental Industrial Hygienists

ENVIRONMENTAL EXPOSURE CONTROLS

All ventilation systems should be filtered before discharge to atmosphere.

9. PHYSICAL AND CHEMICAL PROPERTIES

GENERAL INFORMATION

Appearance:	powder	
Colour:	white	
Odour:	odourless	
pH Value:	8.5 - 9.5 (100 g/l / 20 °C)	DIN- ISO 787/9
Melting Point:	1340 °C (102 bar)	
Boiling Point:	not applicable	
Flash Point:	not applicable	
Evaporation Rate:	not applicable	
Flammability:	non-flammable	
Upper/Lower Flammability Or Explosive Limits:	not applicable	
Explosive Properties:	not explosive	
Vapour Pressure:	negligible	
Vapour Density:	not applicable	
Relative Density:	2.7 (20 °C)	DIN-ISO 787/10
Solubility		
A) Water Solubility:	0.014 g/l (20 °C) 0.018 g/l (75 °C)	DIN-ISO 787/8
B) Fat Solubility:	Data not available	
Partition Coefficient N-Octanol/H ₂ O:	< 1 (estimation)	
Auto-Ignition Temp:	no self-ignition	
Decomposition Temp:	> 825 °C	
Viscosity:	not applicable	

10. STABILITY AND REACTIVITY

REACTIVITY	Effervesces vigorously on contact with some acids.
CHEMICAL STABILITY	stable
POSSIBILITY OF HAZARDOUS REACTIONS	None known
CONDITIONS TO AVOID	Heating above 825 °C
INCOMPATIBLE MATERIALS	Avoid contact with acids
HAZARDOUS DECOMPOSITION PRODUCTS	Can react with acids under the formation of carbon dioxide (CO ₂) that can displace oxygen (danger of suffocation).
FURTHER INFORMATION	none

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11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ oral, rat = > 5000 mg/kg
Skin Corrosion/Irritation	Data not available
Serious Eye Damage/Irritation	Data not available
Respiratory or skin irritation	Inhalation of dust may cause discomfort in the upper respiratory tract. Prolonged and repeated inhalation of excessive dust may permanently affect the respiratory system. Prolonged and repeated exposure may cause skin dehydration and irritation skin conditions.
Germ cell mutagenicity	Data not available
Carcinogenicity	Data not available
Reproductive toxicity	Data not available
STOT – single exposure	Data not available
STOT – repeated exposure	Data not available
Aspiration hazard	Data not available

12. ECOLOGICAL INFORMATION

In its solid state, calcium carbonate is a natural mineral of the earth. In its dissolved state, the substance is a natural and indispensable component of natural waters.

Toxicity	
LC ₅₀ Fish 96 h	> 10'000 mg/l
LC ₅₀ Daphnia 49 h	> 1000 mg/l
LC ₅₀ Algae 72 h	> 200 mg/l
Persistence & degradability	Not readily degradable, except in acid conditions where it tends to have a neutralizing effect.
Bioaccumulative potential	Calcium carbonate is a naturally occurring inorganic compound which has constituent elements that make up natural components of biological organisms.
Mobility in soil	Calcium carbonate is practically insoluble except in acid conditions, and so presents a low soil mobility in most ground. Moreover it is commonly used as an effective soil conditioner and fertiliser.

13. DISPOSAL CONSIDERATIONS

Dispose of in appropriately licensed general landfill site in accordance with local, state and federal regulations. Waste should be bagged and labelled. Special arrangements made to bury bulk waste upon dumping, limiting dust generation.

14. TRANSPORT INFORMATION

UN Number	None allocated
Proper shipping name	None allocated
GGVSee/IMDG CODE	None allocated
GGVE/GGVS	None allocated
RID/ADR	None allocated
ICAO/IATA-DGR	None allocated
ADNR	None allocated

15. REGULATORY INFORMATION

Poisons Schedule:	Not a scheduled poison (Standard for the Uniform Scheduling of Drugs and Poisons No.22)
R-phrases:	none
S-phrases:	none

16. OTHER INFORMATION

Europe/EU:	EINECS listed under No. 215-279-6
USA	TSCA Inventory listed under CAS No. 1317-65-3
Canada:	Limestone is exempt from the PDSL (naturally occurring substance).
Australia:	NICNAS AICS under CAS-No. 1317-65-3
Japan:	MITI registered under 1-122-122
People's Rep. of China:	CAS - 1317-65-3
South Korea:	CAS - 1317-65-3
New Zealand:	Exempt under HSNO

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