

MSDS Cover Sheet



INSTRUMENT CORPORATION
ONE MICROMERITICS DR.
NORCROSS, GA 30093-1877 U.S.A.

**REF. MATL, FINE PRTCLE,
TRACEABL**

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A	004/16835/00MSDS	X of 5

Micromeritics Material Safety Data Sheet

Title : Ref. Material, Fine Particle, Traceable
Date of Preparation : 08/02/04

MSDS No. : 004/16835/00MSDS
Revision : C

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Calcium Carbonate (Limestone) **STCC #:** Slurry, 3295956; Dry, 3295960

Chemical Formula: CaCO₃

CAS Number: 1317-65-3

Other Designations: CALCARB 55, HYDROCARB 60, HYDROCARB 90, HYDROCARB HG, HYDROCARB PG-3, OMYAFIL, OMYACARB 1, OMYACARB 3, OMYACARB 3-LS, OMYACARB 4, OMYACARB 5, OMYACARB 6, OMYACARB 12, OMYACARB 140, OMYACARB F, OMYACARB UF

General Use: Mineral filler and pigment

Supplier: Micromeritics Instrument Corp.
1 Micromeritics Dr.
Norcross, GA 30093-1877 USA

Contact: Human Resources
Phone: (770) 662-3620
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Manufacturer:

OMYA, Inc., 61 Main Street, Proctor, Vermont 05765 USA, Phone: (802) 459-3311

Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt or % vol
Limestone*	1317-65-3	> 98.5
*Silica, quartz (naturally occurring component of limestone)	14808-60-7	< 0.3

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV		NIOSH REL		NIOSH IDLH
	TWA	STEL	TWA	STEL	TWA	STEL	
Limestone	15 mg/m ³ (total dust) 5 mg/m ³ (resp. dust)	none estab.	10 mg/m ³ (total dust)	none estab.	none estab.	none estab.	none estab.
Silica, quartz	0.1 mg/m ³ (resp. dust)	none estab.	0.1 mg/m ³ (resp. dust)	none estab.	none estab.	none estab.	none estab.

Section 3 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects

Primary Entry Routes: Not Applicable

Target Organs: Not Applicable

Acute Effects

Inhalation: Dust can be irritating to the respiratory tract; symptoms include sneezing and slight nose irritation.

Eye: Mild irritation; symptoms include watering and irritation

Skin: Repeated or prolonged exposure may have a drying effect on the skin. May cause mild skin irritation; symptoms include redness and irritation

HMIS	
H	1 (dry) 0 (slurry)
F	0
R	0
PPE†	E (dry) A (slurry)
† See Sect. 8	

Ingestion: Ingestion of very large quantities may result in intestinal obstruction and/or constipation

Carcinogenicity: Crystalline silica has been reviewed by IARC and they have found limited evidence for pulmonary carcinogenicity in humans.

Medical Conditions Aggravated by Long-Term Exposure: Not Applicable

Chronic Effects: There are no reported health effects associated with repeated or prolonged exposure to pure calcium carbonate. Chronic exposure to respirable limestone dust at concentrations exceeding occupational exposure limits may increase the risk of developing pneumoconiosis (lung disease).

These products contain crystalline silica (quartz) as an impurity. Prolonged exposure to respirable crystalline silica dust at concentrations exceeding occupational exposure limits may increase the risk of developing a disabling lung disease called silicosis.

Section 4 - First Aid Measures

Inhalation: (dust) Remove to fresh air; obtain medical advice if required

Eye Contact: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 10 minutes, holding the eyelid(s) open. If irritation persists, obtain medical advice immediately.

Skin Contact: Wash with warm water and mild soap. If irritation occurs, obtain medical advice immediately.

Ingestion: Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Rinse mouth thoroughly with water. Do not induce vomiting. Drink 8 to 10 ounces (240 to 300 ml) of water to dilute material in stomach. Obtain medical advice immediately.

Note to Physicians: Not Applicable

Special Precautions/Procedures: Not Applicable

Section 5 - Fire-Fighting Measures

Flash Point: Nonflammable

Flash Point Method: Not Applicable

Burning Rate: Not Applicable

Autoignition Temperature: Not Applicable

LEL: Not Applicable

UEL: Not Applicable

Flammability Classification: Not Applicable

Extinguishing Media: Not Applicable

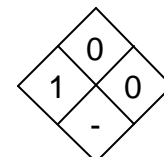
Unusual Fire or Explosion Hazards: None

Hazardous Combustion Products: Not Applicable

Fire-Fighting Instructions: None

Fire-Fighting Equipment: Not Applicable

NFPA



Section 6 - Accidental Release Measures

Spill /Leak Procedures: Measures may be necessary to reduce and protect against airborne dust during cleanup operations, including wetting spilled material and/or use of respiratory protective equipment.
Small Spills: Not Applicable
Large Spills
Containment: Not Applicable
Cleanup: Not Applicable
Regulatory Requirements: Not Applicable

Section 7 - Handling and Storage

Handling Precautions: See Section 8.
Storage Requirements: Store in closed containers in a dry place separate from incompatible materials.
Regulatory Requirements: Not Applicable

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Not Applicable
Ventilation: Engineering control methods such as (but not limited to) process enclosure and exhaust ventilation may be necessary to control exposures. Supply sufficient replacement air to make up for air removed by exhaust systems.
Administrative Controls: Not Applicable
Respiratory Protection: If engineering controls and work practices are not effective in controlling exposures, appropriate personal protective equipment including a NIOSH/OSHA-approved dust respirator should be worn.
Protective Clothing/Equipment: When prolonged or repeated contact with hands is likely, the use of appropriate gloves is recommended. Safety glasses with side shields should be worn as minimum eye protection.
Safety Stations: Not Applicable
Contaminated Equipment: Not Applicable
Comments: Not Applicable

Section 9 - Physical and Chemical Properties

Physical State: Not Applicable	Water Solubility: 1.3 mg/100 g @ 18 °C
Appearance and Odor: White powder or slurry; mild odor with slurry	Other Solubilities: Not Applicable
Odor Threshold: Not Applicable	Boiling Point: Not Applicable
Vapor Pressure: Not Applicable	Freezing/Melting Point: Not Applicable
Vapor Density (Air=1): Not Applicable	Viscosity: Not Applicable
Formula Weight: Not Applicable	Refractive Index: Not Applicable
Density: 2.7 g/ml (dry)	Surface Tension: Not Applicable
Specific Gravity (H₂O=1, at 4 °C): 1.81 to 1.94	% Volatile: Not Applicable
pH: 9.0 to 9.5 (slurry)	Evaporation Rate: Not Applicable

Section 10 - Stability and Reactivity

Stability: Stable
Polymerization: Will not occur
Chemical Incompatibilities: Reacts with strong acid to liberate carbon dioxide
Conditions to Avoid: Not Applicable
Hazardous Decomposition Products: None
Reactivity in Water: None

Section 11- Toxicological Information

Toxicity Data:

Eye Effects: Not Applicable

Skin Effects: Not Applicable

Acute Inhalation Effects: Not Applicable

Acute Oral Effects: Not Applicable

Chronic Effects: Not Applicable

Carcinogenicity: Not Applicable

Mutagenicity: Not Applicable

Teratogenicity: Not Applicable

Section 12 - Ecological Information

Ecotoxicity: Not Applicable

Environmental Fate: Not Applicable

Environmental Degradation: Not Applicable

Soil Absorption/Mobility: Not Applicable

Section 13 - Disposal Considerations

Disposal: From a waste perspective, these products are not considered hazardous and may be disposed of as a solid waste in accordance with applicable federal, state, provincial, and local regulations.

Disposal Regulatory Requirements: Not Applicable

Container Cleaning and Disposal: Not Applicable

Section 14 - Transport Information

DOT Transportation Data (49 CFR 172.101):

Shipping Name: Not Applicable

Shipping Symbols: Not Applicable

Hazard Class: Not Applicable

ID No.: Not Applicable

Packing Group: Not Applicable

Label: Not Applicable

Special Provisions (172.102): Not Applicable

Packaging Authorizations

a) Exceptions: Not Applicable

b) Non-bulk Packaging: Not Applicable

c) Bulk Packaging: Not Applicable

Quantity Limitations

a) Passenger, Aircraft, or Railcar: Not Applicable

b) Cargo Aircraft Only: Not Applicable

Vessel Stowage Requirements

a) Vessel Stowage: Not Applicable

b) Other: Not Applicable

Section 15 - Regulatory Information

EPA Regulations: Not Applicable

OSHA Regulations: Not Applicable

State Regulations: Not Applicable

Section 16 - Other Information

Prepared By: M. Day

Revision Notes: Not Applicable

Additional Hazard Rating Systems: Not Applicable

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