

Safety Data Sheet

Calcium Carbonate

MSDS No. 9615.21

Date of Preparation: 5/9/96

Revision: 2/6/13

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: Calcium Carbonate

Synonyms: Ground Limestone, Marble Dust

General Use: Filler or extender

Manufacturer: The R. J. Marshall Company

26776 W. 12 Mile Road

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Date Revised: 2/6/13

Preparer: Stephanie Nichols

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Section 2 - Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Potential Health Effects



Warning: Irritant R-phrase: R36/37/39 Irritating to eyes/respiratory system/skin.

Primary Entry Routes: Skin, Eye, and Inhalation.

Acute Effects

Inhalation: Inhalation of high concentrations of this inert nuisance particulate can result in mild irritation of the respiratory tract.

Eye: May cause irritation through mechanical abrasion.

Skin: May cause irritation through mechanical abrasion.

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

Carcinogenicity: IARC, NTP has listed crystalline silica as a human carcinogen.

Chronic Effects: This product contains crystalline silica (quartz) as an impurity. Prolonged exposure to respirable crystalline silica dust concentrations exceeding occupational exposure limits may increase the risk of developing a disabling lung disease called silicosis. Calcium Carbonate is not listed as a carcinogen by OSHA, NTP, or IARC.

Section 3 - Composition / Information on Ingredients

Ingredient Name	CAS Number
Calcium Carbonate	1317-65-3
Crystalline Silica	14808-60-7

Trace Impurities:

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Calcium Carbonate	15 mg/m ³ total dust 5 mg/m ³ respirable	none estab.	none estab.	none estab.
Crystalline Silica	10 mg/m ³ respirable dust	none estab.	none estab.	none estab.

*Calcium Carbonate products may contain crystalline silica up to 0.75% max and varies naturally.

Note: Calcium carbonate products may contain trace amounts of naturally occurring elements that are regulated in some states. These materials and their typical levels are as follows: Lead at less than 1ppm, Arsenic at less than 1 ppm.

Section 4 - First Aid Measures

Inhalation: If overcome by high dust concentrations, remove to a ventilated area.

Eye Contact: Flush eyes thoroughly for 15 minutes taking care to rinse under eyelids. Do not scrub. Abrasion may cause irritation. If discomfort continues, continue to wash with water. If irritation persists, consult a physician.

Skin Contact: Wash skin thoroughly with soap and water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: Considered to be of very low toxicity.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Medical Conditions Aggravated by Exposure: Respiratory conditions, dermatitis.

Section 5 - Fire-Fighting Measures

Flash Point: None known.

Flash Point Method: n/a

Burning Rate: Not determined.

Auto-ignition Temperature: Not determined.

Flammability Classification: Non-flammable.

Extinguishing Media: Use appropriate extinguishing media for surrounding fire.

Unusual Fire or Explosion Hazards: None known.

Hazardous Combustion Products: None.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.

Section 6 - Accidental Release Measures

Spill /Leak Procedures: Vacuum, pump, or scoop spilled material into containers for reclaiming or disposal. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

Section 7 - Handling and Storage

Handling Precautions: Avoid generating dust during handling.

Storage Requirements: S3/S8: Store in a cool, dry location. Keep away from acids.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

S36/37/39: Wear suitable protective clothing, gloves, and eye protection.

Respiratory Protection: If required use a MSHA/NIOSH or OSHA/NIOSH approved respirator.

Protective Clothing/Equipment: Wear side shield safety glasses. Rubber gloves are recommended for prolonged exposure.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: S20/21 Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Section 9 - Physical and Chemical Properties

Physical State: white powder

Appearance and Odor: white odorless powder

Odor Threshold: n/e

Vapor Pressure: n/e

Vapor Density (Air=1): n/a

Formula Weight: n/a

Density: n/e

Specific Gravity (H₂O=1, at 4 °C): varies

pH: 9-10

Water Solubility: 1.4 mg/100ml @25C

Other Solubilities: n/a

Boiling Point: n/a

Freezing/Melting Point: 825C

Viscosity: n/a

Refractive Index: n/a

Surface Tension: n/a

% Volatile: n/a

Evaporation Rate: n/a

Section 10 - Stability and Reactivity

Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: S14 Keep away from strong acids. Calcium Carbonate will react with strong acids to form carbon dioxide. Reacts with aluminum and ammonium salts.

Conditions to Avoid: None known.

Hazardous Decomposition Products: Decomposes at 825C. Produces corrosive fumes of calcium oxide.

Section 11- Toxicological Information

Toxicity Data:*

Eye Effects: May cause mechanical irritation. Severe eye irritant.

Acute Inhalation Effects: May aggravate existing asthmatic or respiratory conditions.

Skin Effects: May aggravate existing dermatitis. Moderate skin irritant.

Acute Oral Effects: Oral LD (50) in rats: 6450mg/kg.

Chronic Effects: Prolonged exposure to respirable crystalline silica dust concentrations exceeding occupational exposure limits may increase the risk of developing a disabling lung disease called silicosis.

Carcinogenicity: Crystalline silica is listed as a human carcinogen.

Section 12 – Ecological Information

No information available.

Section 13 – Disposal Considerations

Disposal: Recycle if possible or landfill. This substance is inert and does not require special disposal methods. Follow applicable Federal, state, and local regulations.

Section 14 – Transport Information

DOT Transportation Data (49 CFR 172.101): This product is not classified as dangerous under the transport regulations for road, rail, sea, or air transport.

Section 15 – Regulatory Information

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) Not listed

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed

Crystalline Silica is subject to the reporting requirements of California's Safe Drinking Water and Toxic Enforcement Act of 1986 ("Proposition 65").

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

TSCA

Section 8(b): Present

Section 8(a): This substance is listed as a partially exempt chemical substances under 40CFR710.46(b)(2).

FDA-Food Additives Generally Recognized as Safe (GRAS): 21CFR184.1409

INTERNATIONAL REGULATIONS

Australia: Listed on AICS.

Canada: Listed on NDSL.

China: Listed on IECSC.

Europe: Listed on EINECS # 215-279-6.

EU-Colors in Foodstuffs Directive 95/45/EC-Specific Purity Criteria for Colors as Food Additives: E170.

EU-Existing Substance Regulation 793/93/EEC-Evaluation of Existing HPV Chemicals: Exempt

Japan: Listed on ENCS.

Korea: Listed on ECL # KE-21996.

New Zealand: Listed on NZIoC.

Philippines: Listed on PICCS.

Taiwan: Listed on NECI.

Section 16 – Other Information**Prepared By:** Stephanie Nichols**Revision Notes:** updated to SDS**Product Grades Available from the R. J. Marshall Company** (this list may be incomplete):

Marblemite	CM40x200	Marfill 10	Marfill 242	Marfill 351
Atomite	15M	Marfill 60	Marfill 244	Marfill 352
No. 1 white	Pulpro 3	Marfill 80	Marfill 320	Marfill 370
Marblemax	Pulpro 8	Marfill 220	Marfill 325	Marfill 600
Marble dust	Pulpro 10	Marfill 230	Marfill 330	No. 10 white
Fluorspar	Pulpro 17	Marfill 232	Marfill 348	
MarBlend	Pulpro 20		Marfill 350	

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