

MISSISSIPPI LIME COMPANY - SAFETY DATA SHEET

Section 1: Identification

Calcium Carbonate Precipitated (PCC) - CaCO₃

Product Line	VitaCal PCC; Magnum Fill-Milled, EXT, Spray Dried, Slurry, SD, SDL, M, HO97, 50% Stabilized, 65%, 65% Stabilized, 70%; HO97; Magnum Gloss- Milled, Spray Dried, Slurry (SD, M, XF, 72%)
Product Use	Filler for paper, paint, plastic cosmetics and for water treatment, surface coating, pharmaceutical and food additives for human consumption and animal nutrition.
Manufacturer	Mississippi Lime Company 16147 US Highway 61, Ste Genevieve, MO 63670

24 Hour Emergency Contact Number (800) 437-5463

Section 2: Hazard Identification



WARNING !

HAZARD	<p>H 316: Causes mild skin irritation</p> <p>H 320: Causes eye irritation</p> <p>H 335: May cause respiratory irritation</p>
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PRECAUTIONALRY STATEMENTS

PREVENTION

- P 102: Keep out of reach of children.
- P 261: Avoid breathing dust.
- P 264: Wash face and hands thoroughly after handling.
- P 280: Wear eye protection.
- P 402: Store in dry place.
- P 501: Dispose of contents / container in accordance with regulation.

RESPONSE

- P 302 + P 352: IF ON SKIN: Wash with plenty of soap and water.
- P 304 + P 340: IF INHALED: Remove victim to fresh air and keep at rest.
- P 301 + P 330: IF SWALLOWED: Rinse mouth.
- P 305 + P 310: IF IN EYES: Rinse cautiously with water for several minutes.
- P 305 + P 337 + P 313: IF IN EYES: If eye irritation persists. Get medical advice.

EU Classification : Respiratory irritation (Category 3) ; Eye irritation/Damage (Category 2B)

WHMIS Canda - Not Regulated

Section 3: Composition/Information on Ingredients

Compound	CAS	Con.	Slurry
Calcium Carbonate (CaCO ₃)	471-34-1	98 % +/-	70%
Magnesium Carbonate (MgCO ₃)	546-93-0	1% +/-	
CaO, MgO, CaSO ₄ misc	Mixture	1% +/-	
Silica (SiO ₂) Total	14808-60-6	<0.10%	

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Section 4: First-Aid Measures					
Eye Contact	Irrigate eyes immediately with clean water. Seek medical attention .				
Skin Contact	Wash with soap and water.				
Ingestion	Rinse mouth -- If significant - obtain medical attention if necessary.				
Inhalation	Move victim to fresh air. If breathing is difficult give oxygen and seek medical attention.				
Physician	Treat symptomatically.				
Section 5: Fire-Fighting Measures					
Extinguishing media	Non-flammable and Non-combustible				
Extinguishing media to avoid	No specific information.				
Hazards of concern	No specific information.				
Advice for fire-fighters	Standard personal protective equipment.				
Section 6: Accidental Release Measures					
Precaution	Dusty. Wear appropriate personal protective equipment.				
Environment	Insignificant. Clean-up spillage in dry form if possible rather than flushing with water.				
Containment	Capture, contain and cover spill to minimize dust emission.				
Clean-up	Use vacuum system, if available, or broom and shovel. Flush residue with water.				
Disposal	Landfill. Recycle and use beneficially in other applications.				
Section 7: Handling and Storage					
Precautions for Safe Handling	Minimize fugitive dust in workplace and carefully handling and adequate ventilation.				
	Wear dust masks when exposure is high.				
	Use appropriate eye protection and tight fitting goggles if wearing contact lenses.				
	Exposed skin may become dry and irritated with prolonged contact.				
	Avoid contact with food and ingestion.				
Storage	Keep product dry.				
Section 8: Exposure Controls/Personal Protection					
Ingredient	Concentration	Exposure Limit (mg/m)			
Precipitated Calcium Carbonate	Dry - Solids 95-100%	OSHA PEL (TWA) 8/40h	ACGIH TLV (TWA) 8/40h	MSHA/PEL (TWA) 8/40h	NIOSH REL (TWA) 10/40H
	Slurry- Solids - 70%	15 T / 5 R	Withdrawn	10 T	10 T/5 R
Derived - No Effect Level		Predict - No Effect Concentration		Biological Limit	
No information available		No information available		Not established by ACGIH	
Engineering Control Measures	Eye Wash - Ensure that eye wash stations are close to the workplace location.				
	Exposure - Evaluate degree of exposure and use PPE as necessary.				
	Ventilation - Use dust collectors or other vacuum controls as required to maintain dust levels below limits.				

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Personal Protective Equipment	Eye Protection - ANSI, CSA or ATM approved glasses and goggles. Tight fitting dust goggles should be worn if excessive emissions are present and when wearing contact lenses.
	Respiratory Protection - Follow OSHA respirator guidelines found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
	Hand Protection - No special requirements. Wear gloves to protect skin.
	Skin protection - No special requirements. Appropriate clothing to minimize skin contact..
	Footwear - No special requirements.
	Hygiene - Handle product in accordance with good industrial hygiene and safety practices.

Section 9: Physical and Chemical Properties

Physical State	Formula	Color	Stability	Flammability	Explosivity	Flash Pt.
Powder or Liquid	CaCO ₃	Off- white	Very Stable	Non-flammable	Non-explosive	Non-Combustible
Soluble. (H2O)	Volatiles %	Density	Bulk Density	Specific Gravity	Vapor Press	Boiling Pt.
0.0006/100g	None	2.6-2.8 g/cm3	900-1900 kg/m3	2.7	NA	Above *(%)C
Freezing Point	pH @ (25C)	Melting Pt.	Self Ignition T	Dust Defrag Kst	Vapor Den	Viscosity
NA	8-9	825°C /1517°F	NA	NA	NA	NA
Partition Coef	Odor	Odor Threshold	Decomposition	Evaporation Rate	Additives	
NA	None	NA	825-870 °C		None	

Section 10: Stability and Reactivity

Reactivity	Reacts with strong acids releasing carbon dioxide .
Stability	Very stable under normal conditions.
Hazardous	No dangerous reactions known.
Incompatibility	Strong oxidizer and acids and when mixed with fluorine, magnesium, aluminum, silicone, hydrogen, mercury, aluminum sulfate, ammonium salt.
Decomposition	Thermal decomposition releasing products - CO ₂ and CaO.

Section 11: Toxicological Information

Acute	Routes of Entry - Skin Contact; Eye Contact; Inhalation; Ingestion
Skin	May irritate skin and mucus membranes: Skin Irritation - Rabbit 500 mg/24 hours - Moderate.
Eyes	May cause eye irritation with discomfort or pain, local redness and swelling of the conjunctiva. Eye Irritation Data: Rabbit 750 ug/24 hours - Severe.
Inhalation	May cause respiratory tract irritation /inflammation. Exposure may cause coughing and sneezing. Large amounts may cause chemical pneumonitis.
Ingestion	May cause gastro-intestinal irritation. If ingested in large quantities may cause nausea, constipation and hypocalcemia, hemorrhage.
Sensitization	No sensitizing effects known.
Chronic	No signs or symptoms of chronic exposure have been reported.
Carcinogenicity	Calcium carbonate is not listed as a carcinogen by ACGIH, MSHA, OSHA, NTP, DFG, RSST or IAARC. This substance has been tested negative for crystalline silica at levels below 0.1%.

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Section 12: Ecological Information

Toxicity - Aquatic toxicity foreseeable as non relevant.

Persistence and degradability - No further relevant information available.

Ecological information - Non-biodegradable.

Bioaccumulative potential - No further relevant information available.

Mobility in soil - No further relevant information available.

Additional information - Product generally considered non hazardous as a water pollutant.

PBT and vPvB assessment - Not applicable.

Marine pollutant - Not Classified.

Other adverse effects - No further relevant information available.

Section 13: Disposal Considerations

Reutilize, if possible, for beneficial use such as fill or agricultural supplement.

Consult Federal, State and local environmental regulation for appropriate disposal requirements.

Section 14: Transport Information

Shipping: Calcium carbonate is not regulated as a hazardous material by the Canadian Transportation of Dangerous Good Regulations (**TDG**) ; by the US Department of Transportation or International Air Transport Association (**IATA**).

International Maritime Dangerous Goods (**IMDG Code**) - Not Classified

Transport in Bulk (EU Annex II of MARPOL 73/78 and the IBC Code) - Not applicable.

Section 15: Regulatory Information

TSCA & DSL	Calcium Carbonate is listed under Toxic Substance Control Act, Canada DSL and other International Inventories. Subject to TSCA inventory update reporting rule (IUR)
CONEG	Materials and ink used to manufacture packaging are CONEG compliant.
CWA	Product is not considered to be a severe water pollutant .
US DOT	Product is not regulated by U.S. Department of Transportation.
WASTE	Waste derived from raw product <u>is not</u> subject to RCRA and acceptable at landfills as a "special waste". Product can often be beneficially reused or recycled for other purposes.
US FDA	Calcium Carbonate is "Generally Recognized As Safe" (GRAS) under 21CFR 184.1191 and for indirect food applications under 21 CFR 174.5, 176.170 & 176.180.
SPILLS	If possible - contain and sweep up spillage in dry form rather than flushing with water.
Prop 65	WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
NAFTA	Product qualifies under HS Tariff No 2836.50 as 100% US Origin, Preference Criteria A.
EU REACH	MLC Product is pre-registered under # 5-2116 375 259-34-0000

Section 16: Other Information /Disclaimer

Mississippi Lime Company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular application or purpose.

Prepared by: *J.S. Castleberry*

Prepared 3/6/2015