

SAFETY DATA SHEET



1. Identification		
Product identifier	VitaCal ® H Food Codex Grade Calcium Hy	droxide
Other means of identification	None.	
Recommended use	For all direct and indirect food contact applicat related global regulations.	ions of calcium hydroxide by 21 CFR 184.1205 and
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer:	Mississippi Lime Company	
Address:	16147 US Highway 61	
	Ste Genevieve, MO 63670	
24 Hour Emergency Contact Number:	(800) 437-5463	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 1
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
OSHA defined hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes skin irritation. Causes serious eye dan aquatic life.	nage. May cause respiratory irritation. Harmful to
Precautionary statement		
Prevention		andling. Use only outdoors or in a well-ventilated eye protection/face protection. Wear protective
Response	If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.	
Storage	Store in a well-ventilated place. Keep contained	er tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance w	vith local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Calcium hydroxide	1305-62-0	97 - 100
Calcium carbonate, synthetic	471-34-1	≤ 1

Composition comments	All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits.	
4. First-aid measures		
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.	
Skin contact	Remove contaminated clothing. Wash with plenty of soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.	
Eye contact	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Skin irritation. May cause redness and pain. Rash. Dermatitis.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted. The product is nonflammable and does not support combustion.	
6. Accidental release mea	sures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. Prevent product from entering drains. Stop the flow of material, if this is without risk.	
	Large Spills: Wet down with water and dike for later disposal. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.	

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not get this material in contact with eyes. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from Conditions for safe storage, incompatible materials (see Section 10 of the SDS). including any incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	s for Air Contaminants (29 CFR 1910.1 Type	Value	Form
Calcium hydroxide (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
US. OSHA Table Z-3 (29 CF		Malas	F.a
Components	Туре	Value	Form
Calcium carbonate, synthetic (CAS 471-34-1)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limi	it Values		
Components	Туре	Value	
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
US. NIOSH: Pocket Guide t	to Chemical Hazards		
Components	Туре	Value	Form
Calcium carbonate, synthetic (CAS 471-34-1)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Calcium hydroxide (CAS 1305-62-0)	TWA	5 mg/m3	
logical limit values	No biological exposure limits noted for	or the ingredient(s).	
propriate engineering trols	Good general ventilation should be u applicable, use process enclosures, maintain airborne levels below recon established, maintain airborne levels sufficient to maintain concentrations (OEL), suitable respiratory protection operation which may generate dusts below the recommended exposure line	local exhaust ventilation, or oth mended exposure limits. If ex to an acceptable level. If engin of dust particulates below the must be worn. If material is gr , use appropriate local exhaust	ner engineering controls to posure limits have not been neering measures are not Occupational Exposure Limit round, cut, or used in any c ventilation to keep exposure
vidual protection measures	s, such as personal protective equipm	nent	
	Wear dust-resistant safety goggles.		
Eye/face protection	wear dust resistant safety goggies.		
Eye/face protection Skin protection			
•	Wear appropriate chemical resistant recommended by the glove supplier.	gloves. Frequent change is ad	visable. Suitable gloves can
Skin protection	Wear appropriate chemical resistant	gloves. Frequent change is ad	visable. Suitable gloves can
Skin protection Hand protection	Wear appropriate chemical resistant		visable. Suitable gloves can
Skin protection Hand protection Skin protection	Wear appropriate chemical resistant recommended by the glove supplier.	clothing.	

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Solid.
Powder.
White.
None.
Not available.
12.4 In aqueous solution or slurry form
Not available.
Not available.
Does not flash
Not available.
Non flammable.
plosive limits
Not available.
1.7 g/l (25 °C)
None
Not available.
Does not ignite.
1004 °F (540 °C)
Not available.
Not explosive.
Not oxidizing.
,
Reacts violently with strong acids.
Material is stable under normal conditions.
No dangerous reaction known under conditions of normal use.
Avoid temperatures exceeding the decomposition temperature. Contact with incompatible materials. Do not mix with other chemicals.
Acids. Oxidizing agents. Maleic anhydride. Nitroethane. Nitromethane. Nitroparaffins. Nitropropane. Phosphorus.
No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Dust may irritate respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.
Ingestion	May cause irritation.

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Dusts may irritate the respiratory tract, skin and eyes. Coughing. Skin irritation. May cause redness and pain. Dermatitis. Rash.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Acute toxicity	Not expected	to be acutely toxic.		
Components	Species		Test Results	
Calcium carbonate, synthetic (CA	S 471-34-1)			
Acute				
Oral	- /		<i>"</i>	
LD50	Rat		6450 mg/kg	
Calcium hydroxide (CAS 1305-62	-0)			
Acute				
Oral LD50	Rat		7340 mg/kg	
	Causes skin i	rritation	i o to thightig	
Skin corrosion/irritation				
Serious eye damage/eye irritation	Causes seno	us eye damage.		
Respiratory or skin sensitizatio	'n			
Respiratory sensitization	Not a respirat	Not a respiratory sensitizer.		
Skin sensitization	This product i	is not expected to cause skin sensitization	on.	
Germ cell mutagenicity		No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.		
Carcinogenicity	Not classifiab	le as to carcinogenicity to humans.		
IARC Monographs. Overall Not listed. NTP Report on Carcinogen		Carcinogenicity		
Not listed. OSHA Specifically Regulate		(29 CFR 1910.1001-1053)		
Not listed. Reproductive toxicity	This product i	is not expected to cause reproductive or	developmental effects	
Specific target organ toxicity -	-	espiratory irritation.	developmental encets.	
single exposure				
Specific target organ toxicity - repeated exposure	Not classified			
Aspiration hazard	Not an aspira	tion hazard.		
Chronic effects	Prolonged inhalation may be harmful.			
12. Ecological information	n			
Ecotoxicity	Harmful to aq	uatic life.		
Components		Species	Test Results	
Calcium carbonate, synthetic	(CAS 471-34-1))		
Aquatic				
<i>Acute</i>		Western mesquitafish (Combusis offi	ris > 56000 mg/l 06 Hours	
Fish	LC50	Western mosquitofish (Gambusia affir	lis) > 56000 fligh, 96 Hours	
Calcium hydroxide (CAS 130	5-62-0)			
Aquatic Acute				
Fish	LC50	Zambezi barbel (Clarias gariepinus)	33.9 mg/l, 96 hours	
Persistence and degradability		contains inorganic compounds which are		
Bioaccumulative potential	No data avail			
Mobility in soil	This product	is slightly water soluble and may dispers	e in soil.	
Other adverse effects	No data avail			

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according toNot applicable.Annex II of MARPOL 73/78 andthe IBC Code

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) Not listed. **Toxic Substances Control Act (TSCA)** All components of the mixture are listed on the TSCA 8(b) inventory. Superfund Amendments and Reauthorization Act of 1986 (SARA) SARA 302 Extremely hazardous substance Not listed. SARA 311/312 Hazardous Yes chemical **Classified hazard** Skin corrosion or irritation Serious eye damage or eye irritation categories Specific target organ toxicity (single or repeated exposure) SARA 313 (TRI reporting) Not regulated. Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act Not regulated.
(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Calcium carbonate, synthetic (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0)

US. New Jersey Worker and Community Right-to-Know Act

Calcium carbonate, synthetic (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0)

US. Pennsylvania Worker and Community Right-to-Know Law

Calcium carbonate, synthetic (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0)

US. Rhode Island RTK

Calcium carbonate, synthetic (CAS 471-34-1) Calcium hydroxide (CAS 1305-62-0)

California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	11-October-2017
Revision date	24-January-2023
Version #	03
HMIS® ratings	Health: 3 Flammability: 0 Physical hazard: 0
Disclaimer	Mississippi Lime Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.