SAFETY DATA SHEET

1. Identification

Product identifier VitaCal ® H Food Codex Grade Calcium Hydroxide

Other means of identification

Recommended use For all direct and indirect food contact applications of calcium hydroxide by 21 CFR 184.1205 and

related global regulations.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer: Mississippi Lime Company d/b/a MLC

Address: 16147 US Highway 61

Ste Genevieve, MO 63670

Phone Number: (800) 437-5463 24 Hour Emergency (866) 519-4752

Contact Number:

Access code: 336393

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 Category 3

hazard

Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

Hazard statement Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Harmful to

aquatic life.

Precautionary statement

Prevention Avoid breathing dust. Wash thoroughly after handling. Use only outdoors or in a well-ventilated

area. Avoid release to the environment. Wear eye protection/face protection. Wear protective

gloves.

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

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

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| Chemical name | CAS number | % |
|-------------------|------------|----------|
| Calcium hydroxide | 1305-62-0 | 97 - 100 |
| Calcium carbonate | 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

Unsuitable extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. 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 General fire hazards

Use standard firefighting procedures and consider the hazards of other involved materials.

No unusual fire or explosion hazards noted. The product is nonflammable and does not support combustion.

6. Accidental release measures

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.

Environmental precautions

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

Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

| US. OSHA Table Z-1 Perm Components | issible Exposure Limits (PEL) for Air C Type | Contaminants (29 CFR 1910.1 Value | 000) Form |
|---------------------------------------|--|---|--|
| Calcium hydroxide (CAS 1305-62-0) | PEL | 5 mg/m3 | Respirable fraction. |
| · | | 15 mg/m3 | Total dust. |
| US. OSHA Table Z-3 Perm | issible Exposure Limits (PEL) for Mine | eral Dusts (29 CFR 1910.1000 | |
| Components | Туре | Value | Form |
| Calcium carbonate (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 Lim | it Values (TLV) | | |
| Components | Туре | Value | |
| Calcium hydroxide (CAS 1305-62-0) | TWA | 5 mg/m3 | |
| US. NIOSH: Pocket Guide | to Chemical Hazards | | |
| Components | Туре | Value | Form |
| Calcium carbonate (CAS 471-34-1) | TWA | 5 mg/m3 | Respirable. |
| | | 10 mg/m3 | Total |
| Calcium hydroxide (CAS 1305-62-0) | TWA | 5 mg/m3 | |
| iological limit values | No biological exposure limits noted for | or the ingredient(s). | |
| Appropriate engineering ontrols | Good general ventilation should be us applicable, use process enclosures, le maintain airborne levels below recome stablished, maintain airborne levels sufficient to maintain concentrations (OEL), suitable respiratory protection operation which may generate dusts, below the recommended exposure line | ocal exhaust ventilation, or oth mended exposure limits. If exp to an acceptable level. If engin of dust particulates below the C must be worn. If material is grouse appropriate local exhaust | er engineering controls to bosure limits have not been beering measures are not Occupational Exposure Limit bund, cut, or used in any ventilation to keep exposures |
| ndividual protection measure | s, such as personal protective equipm | ent | |
| Eye/face protection | Wear dust-resistant safety goggles. | | |
| Skin protection Hand protection | Wear appropriate chemical resistant of recommended by the glove supplier. | gloves. Frequent change is adv | visable. Suitable gloves can b |
| Skin protection | | | |
| Other | Wear appropriate chemical resistant of | clothing. | |
| Respiratory protection | Use a NIOSH/MSHA approved respir exceeding the exposure limits. | rator if there is a risk of exposu | re to dust/fume at levels |
| Thermal hazards | Wear appropriate thermal protective of | clothing, when necessary. | |
| General hygiene onsiderations | Always observe good personal hygien and before eating, drinking, and/or sn equipment to remove contaminants. | | |

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9. Physical and chemical properties

Appearance

Physical state Solid.
Form Powder.
Color White.
Odor None.

Odor threshold Not available.

pH 12.4 In aqueous solution or slurry form

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Does not flash
Evaporation rate Not available.
Flammability (solid, gas) Non flammable.

Upper/lower flammability or explosive limits
Explosive limit - lower (%) Not available.
Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Solubility(ies)

Solubility (water) 1.7 g/l (25 °C)

Solubility (solvents) None

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureDoes not ignite.Decomposition temperature1004 °F (540 °C)ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Reactivity Reacts violently with strong acids.

Chemical stability Material is stable under normal conditions.

Not available.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials. Do not mix with other chemicals.

Incompatible materials Acids. Oxidizing agents. Maleic anhydride. Nitroethane. Nitromethane. Nitroparaffins.

Nitropropane. Phosphorus.

Hazardous decomposition

products

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.

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Symptoms related to the physical, chemical and toxicological characteristics 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

Not expected to be acutely toxic. Acute toxicity

Components **Species Test Results**

Calcium carbonate (CAS 471-34-1)

Acute Oral

LD50 Rat 6450 mg/kg

Calcium hydroxide (CAS 1305-62-0)

Acute Oral

LD50 Rat 7340 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Components **Species Test Results**

Calcium carbonate (CAS 471-34-1)

Aquatic Acute

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/l, 96 Hours

Calcium hydroxide (CAS 1305-62-0)

Aquatic

Acute

LC50 Fish Zambezi barbel (Clarias gariepinus) 33.9 mg/l, 96 hours

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential No data available.

Mobility in soil This product is slightly water soluble and may disperse in soil.

Other adverse effects No data available.

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13. Disposal considerations

Disposal instructionsCollect 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 to Annex II of MARPOL 73/78 and

Not applicable.

the 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 on the TSCA 8(b) inventory are designated

"active".

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

categories

Serious eye damage or eye irritation

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)

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US state regulations

US. Massachusetts RTK - Substance List

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

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

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

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

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

US. Rhode Island RTK

Calcium carbonate (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 |

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

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

Issue date 11-October-2017

Revision date 19-November-2024

Version # 05
HMIS® ratings Hea

United States & Puerto Rico

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.

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Yes