

## Safety Data Sheet

### VitaCal® H Food Codex Grade Calcium Hydroxide

Version 1.3

Revision Date: 11/14/2025

#### SECTION 1. IDENTIFICATION

|                                                                                                                         |                                                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product name</b>                                                                                                     | : VitaCal® H Food Codex Grade Calcium Hydroxide                                                                                                             |
| <b>Synonyms</b>                                                                                                         | : No data available                                                                                                                                         |
| <b>Restricted Uses</b>                                                                                                  | : No data available                                                                                                                                         |
| <b>Supplier or Repackaging Details</b>                                                                                  |                                                                                                                                                             |
| <b>Company</b>                                                                                                          | : Univar Solutions Canada Ltd.                                                                                                                              |
| <b>Address</b>                                                                                                          | : 64 Arrow Road<br>North York, ON, M9M 2L9<br>Canada                                                                                                        |
| <b>Manufactured By</b>                                                                                                  | : Mississippi Lime Company                                                                                                                                  |
| <b>Emergency telephone number:</b>                                                                                      |                                                                                                                                                             |
| Local Emergency Contact : During Office hours Monday-Friday, 8.00 am - 4.30 pm (Pacific Standard Time) : 1-866-686-4827 |                                                                                                                                                             |
| <b>Additional Information:</b>                                                                                          | : Responsible Party: Product Compliance Department<br>E-mail: SDSNA@univarsolutions.com<br>SDS Requests: 1-855-429-2661<br>Website: www.univarsolutions.com |

#### SECTION 2. HAZARD IDENTIFICATION

##### Hazardous Classification of the substance or mixture

|                                                     |                                   |
|-----------------------------------------------------|-----------------------------------|
| Skin irritation                                     | : Category 2                      |
| Serious eye damage                                  | : Category 1                      |
| Specific target organ toxicity<br>- single exposure | : Category 3 (Respiratory system) |

##### Label elements

Hazard pictograms



Signal word : Danger

Hazard statements : H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.

Precautionary statements : **Prevention:**  
P261 Avoid breathing dust.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air

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and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 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.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

#### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

| CAS-No.   | Chemical name         | % by Weight | Synonyms              |
|-----------|-----------------------|-------------|-----------------------|
| 1305-62-0 | Calcium hydroxide     | 80 - 100    | Calcium hydroxide     |
| 471-34-1  | Calcium Carbonate     | 5 - 10      | Calcium Carbonate     |
| 7631-86-9 | Silica                | 1 - 5       | Silica                |
| 1309-48-4 | Magnesium oxide (MgO) | 1 - 5       | Magnesium oxide (MgO) |

Actual concentration or concentration range is withheld as a trade secret

## SECTION 4. FIRST-AID MEASURES

- |                         |                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice          | : Move out of dangerous area.<br>Consult a physician.<br>Show this safety data sheet to the doctor in attendance.<br>Do not leave the victim unattended.                                                                                           |
| If inhaled              | : If unconscious, place in recovery position and seek medical advice.<br>If symptoms persist, call a physician.                                                                                                                                    |
| In case of skin contact | : If skin irritation persists, call a physician.<br>If on skin, rinse well with water.<br>If on clothes, remove clothes.                                                                                                                           |
| In case of eye contact  | : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.<br>In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>Continue rinsing eyes during transport to hospital. |

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|                                                             |                                                                                                                                                                                                                                                    |
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| If swallowed                                                | Remove contact lenses.<br>Protect unharmed eye.<br>Keep eye wide open while rinsing.<br>If eye irritation persists, consult a specialist.                                                                                                          |
|                                                             | : Keep respiratory tract clear.<br>Do NOT induce vomiting.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>If symptoms persist, call a physician.<br>Take victim immediately to hospital. |
| Most important symptoms and effects, both acute and delayed | : Causes skin irritation.<br>Causes serious eye damage.<br>May cause respiratory irritation.                                                                                                                                                       |
| Notes to physician                                          | : Treat symptomatically.                                                                                                                                                                                                                           |

#### SECTION 5. FIREFIGHTING MEASURES

|                                               |                                                                                                                                                                                                                           |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                  | : Carbon dioxide (CO2)<br>Dry powder<br>Foam<br>Water spray                                                                                                                                                               |
| Unsuitable extinguishing media                | : High volume water jet                                                                                                                                                                                                   |
| Specific hazards during fire-fighting         | : Do not allow run-off from fire fighting to enter drains or water courses.                                                                                                                                               |
| Further information                           | : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : Wear self-contained breathing apparatus for firefighting if necessary.                                                                                                                                                  |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

|                                                                     |                                                                                                                                                                                           |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions, protective equipment and emergency procedures | : Use personal protective equipment.<br>Avoid dust formation.<br>Avoid breathing dust.                                                                                                    |
| Environmental precautions                                           | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |
| Methods and materials for containment and cleaning up               | : Keep in suitable, closed containers for disposal.                                                                                                                                       |

#### SECTION 7. HANDLING AND STORAGE

|                                                 |                                                                                                 |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Advice on protection against fire and explosion | : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------|

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- Advice on safe handling : Avoid formation of respirable particles.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
Observe label precautions.  
Electrical installations / working materials must comply with the technological safety standards.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

| CAS-No.   | Components            | Value type<br>(Form of exposure) | Control parameters / Permissible concentration | Basis     |
|-----------|-----------------------|----------------------------------|------------------------------------------------|-----------|
| 1305-62-0 | Calcium hydroxide     | TWA                              | 5 mg/m <sup>3</sup>                            | CA AB OEL |
|           |                       | TWA                              | 5 mg/m <sup>3</sup>                            | CA BC OEL |
|           |                       | TWAEV                            | 5 mg/m <sup>3</sup>                            | CA QC OEL |
| 471-34-1  | Calcium Carbonate     | TWAEV (total dust)               | 10 mg/m <sup>3</sup>                           | CA QC OEL |
|           |                       | TWA                              | 10 mg/m <sup>3</sup><br>(Calcium carbonate)    | CA AB OEL |
|           |                       | TWA (Total dust)                 | 10 mg/m <sup>3</sup>                           | CA BC OEL |
|           |                       | TWA (respirable dust fraction)   | 3 mg/m <sup>3</sup>                            | CA BC OEL |
|           |                       | STEL                             | 20 mg/m <sup>3</sup>                           | CA BC OEL |
| 7631-86-9 | Silica                | TWA (Respirable particulates)    | 0.025 mg/m <sup>3</sup><br>(Silica)            | CA AB OEL |
|           |                       | TWAEV (respirable dust)          | 6 mg/m <sup>3</sup>                            | CA QC OEL |
| 1309-48-4 | Magnesium oxide (MgO) | TWA (Fumes)                      | 10 mg/m <sup>3</sup>                           | CA AB OEL |
|           |                       | TWA (Inhalable fume)             | 10 mg/m <sup>3</sup><br>(Magnesium)            | CA BC OEL |
|           |                       | TWA (Respirable dust and fume)   | 3 mg/m <sup>3</sup><br>(Magnesium)             | CA BC OEL |
|           |                       | STEL (Respirable dust and fume)  | 10 mg/m <sup>3</sup><br>(Magnesium)            | CA BC OEL |
|           |                       | TWAEV (inhalable dust)           | 10 mg/m <sup>3</sup>                           | CA QC OEL |

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#### Personal protective equipment

##### Hand protection

|                          |   |                                                                                                                                                   |
|--------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Remarks                  | : | The suitability for a specific workplace should be discussed with the producers of the protective gloves.                                         |
| Eye protection           | : | Eye wash bottle with pure water<br>Tightly fitting safety goggles<br>Wear face-shield and protective suit for abnormal processing problems.       |
| Skin and body protection | : | Dust impervious protective suit<br>Choose body protection according to the amount and concentration of the dangerous substance at the work place. |
| Hygiene measures         | : | When using do not eat or drink.<br>When using do not smoke.<br>Wash hands before breaks and at the end of workday.                                |

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                        |   |                   |
|----------------------------------------|---|-------------------|
| Appearance                             | : | powder            |
| Colour                                 | : | No data available |
| Odour                                  | : | No data available |
| Odour Threshold                        | : | No data available |
| pH                                     | : | No data available |
| Freezing Point                         | : | No data available |
| Boiling Point                          | : | No data available |
| Flash point                            | : | No data available |
| Evaporation rate                       | : | No data available |
| Flammability (solid, gas)              | : | No data available |
| Upper explosion limit                  | : | No data available |
| Lower explosion limit                  | : | No data available |
| Vapour pressure                        | : | No data available |
| Relative vapour density                | : | No data available |
| Relative density                       | : | No data available |
| Density                                | : | No data available |
| Solubility(ies)                        | : |                   |
| Water solubility                       | : | 1.7 g/l           |
| Solubility in other solvents           | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature              | : | No data available |
| Thermal decomposition                  | : | No data available |

#### SECTION 10. STABILITY AND REACTIVITY

|                                    |   |                                                             |
|------------------------------------|---|-------------------------------------------------------------|
| Reactivity                         | : | No dangerous reaction known under conditions of normal use. |
| Chemical stability                 | : | Stable under normal conditions.                             |
| Possibility of hazardous reactions | : | No decomposition if stored and applied as directed.         |

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Dust may form explosive mixture in air.

|                        |                                                                                                                                |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Conditions to avoid    | : Keep away from heat, flame, sparks and other ignition sources.                                                               |
| Incompatible materials | : Acids<br>Oxidizing agents<br>maleic anhydride<br>nitroethane<br>nitromethane<br>nitroparaffins<br>nitropropane<br>phosphorus |

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity**

Not classified due to lack of data.

**Components:****471-34-1:**

|                     |                                                                                                |
|---------------------|------------------------------------------------------------------------------------------------|
| Acute oral toxicity | : LD50 (Rat): > 2,000 mg/kg<br>Assessment: The substance or mixture has no acute oral toxicity |
|---------------------|------------------------------------------------------------------------------------------------|

|                           |                              |
|---------------------------|------------------------------|
| Acute inhalation toxicity | : Remarks: No data available |
|---------------------------|------------------------------|

|                       |                                                                                                                   |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|
| Acute dermal toxicity | : LD50 (Rat, male and female): > 2,000 mg/kg<br>Assessment: The substance or mixture has no acute dermal toxicity |
|-----------------------|-------------------------------------------------------------------------------------------------------------------|

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:****1305-62-0:**Species: Rabbit  
Exposure time: 4 h  
Result: Irritating to skin.**471-34-1:**Species: Rabbit  
Result: No skin irritation**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

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Remarks: May cause irreversible eye damage.

#### **Components:**

##### **1305-62-0:**

Species: Rabbit

Result: Risk of serious damage to eyes.

Exposure time: 72 h

##### **471-34-1:**

Species: Rabbit

Result: No eye irritation

Exposure time: 72 h

#### **Respiratory or skin sensitisation**

Skin sensitisation: Not classified due to lack of data.

Respiratory sensitisation: Not classified due to lack of data.

#### **Components:**

##### **1305-62-0:**

Remarks: No data available

##### **471-34-1:**

Test Type: lymph node assay

Species: Mouse

Result: Did not cause sensitisation on laboratory animals.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

#### **Components:**

##### **471-34-1:**

Genotoxicity in vitro

: Test Type: Ames test

Species: Salmonella typhimurium

Result: negative

Germ cell mutagenicity -

Assessment

: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

#### **Carcinogenicity**

Not classified due to lack of data.

#### **Components:**

##### **471-34-1:**

Carcinogenicity - Assessment

: No evidence of carcinogenicity in animal studies.

#### **Reproductive toxicity**

Not classified due to lack of data.

#### **Components:**

##### **471-34-1:**

Reproductive toxicity - Assessment

Fertility classification not possible from current data.

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Teratogenicity - Assessment : Embryotoxicity classification not possible from current data.

**STOT - single exposure**

May cause respiratory irritation.

**Components:****1305-62-0:**

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

**STOT - repeated exposure**

Not classified due to lack of data.

**Aspiration toxicity**

Not classified due to lack of data.

**Components:****471-34-1:**

No aspiration toxicity classification

**Further information****Product:**

Remarks: No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****471-34-1:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : Remarks: No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

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**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

- Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.  
For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Univar Solutions ChemCare: 1-800-637-7922
- Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

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**SECTION 14. TRANSPORT INFORMATION****TDG (Transportation of Dangerous Goods):** Not regulated as a dangerous good**IATA (International Air Transport Association):** Not regulated as a dangerous good**IMDG-Code:** Not regulated as a dangerous good

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**SECTION 15. REGULATORY INFORMATION**

This product has been classified according to the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all of the information required by the HPR.

**The components of this product are reported in the following inventories:**

- TSCA : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory

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|       |                                                         |
|-------|---------------------------------------------------------|
| PICCS | : On the inventory, or in compliance with the inventory |
| IECSC | : On the inventory, or in compliance with the inventory |
| NZIoC | : On the inventory, or in compliance with the inventory |

#### SECTION 16. OTHER INFORMATION

The information accumulated is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Univar Solutions EHS Product Compliance Department (1-855-429-2661) SDSNA@univarsolutions.com.

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**Material number:**

16157889, 16153591, 16153537, 16143817, 16142447, 16141357

| Key or legend to abbreviations and acronyms used in the safety data sheet |                                                         |       |                                                         |
|---------------------------------------------------------------------------|---------------------------------------------------------|-------|---------------------------------------------------------|
| ACGIH                                                                     | American Conference of Government Industrial Hygienists | LD50  | Lethal Dose 50%                                         |
| AIC                                                                       | Australia Inventory of Industrial Chemicals             | LOAEL | Lowest Observed Adverse Effect Level                    |
| DSL                                                                       | Canada, Domestic Substances List                        | NFPA  | National Fire Protection Agency                         |
| NDSL                                                                      | Canada, Non-Domestic Substances List                    | NIOSH | National Institute for Occupational Safety & Health     |
| CNS                                                                       | Central Nervous System                                  | NTP   | National Toxicology Program                             |
| CAS                                                                       | Chemical Abstract Service                               | NZIoC | New Zealand Inventory of Chemicals                      |
| EC50                                                                      | Effective Concentration                                 | NOAEL | No Observable Adverse Effect Level                      |
| EC50                                                                      | Effective Concentration 50%                             | NOEC  | No Observed Effect Concentration                        |
| EGEST                                                                     | EOSCA Generic Exposure Scenario Tool                    | OSHA  | Occupational Safety & Health Administration             |
| EOSCA                                                                     | European Oilfield Specialty Chemicals Association       | PEL   | Permissible Exposure Limit                              |
| EINECS                                                                    | European Inventory of Existing Chemical Substances      | PICCS | Philippines Inventory of Commercial Chemical Substances |
| MAK                                                                       | Germany Maximum Concentration Values                    | PRNT  | Presumed Not Toxic                                      |
| GHS                                                                       | Globally Harmonized System                              | RCRA  | Resource Conservation Recovery Act                      |
| >=                                                                        | Greater Than or Equal To                                | STEL  | Short-term Exposure Limit                               |
| IC50                                                                      | Inhibition Concentration 50%                            | SARA  | Superfund Amendments and Reauthorization Act.           |
| IARC                                                                      | International Agency for Research on Cancer             | TLV   | Threshold Limit Value                                   |
| IECSC                                                                     | Inventory of Existing Chemical Substances in China      | TWA   | Time Weighted Average                                   |

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|      |                                                          |       |                                                                                      |
|------|----------------------------------------------------------|-------|--------------------------------------------------------------------------------------|
| ENCS | Japan, Inventory of Existing and New Chemical Substances | TSCA  | Toxic Substance Control Act                                                          |
| KECI | Korea, Existing Chemical Inventory                       | UVCB  | Unknown or Variable Composition, Complex Reaction Products, and Biological Materials |
| <=   | Less Than or Equal To                                    | WHMIS | Workplace Hazardous Materials Information System                                     |
| LC50 | Lethal Concentration 50%                                 |       |                                                                                      |