



VOLUNTARY PURCHASING GROUPS, INC.

Safety Data Sheet Hi-Yield Horticultural Hydrated Lime

SECTION 1: Identification

Product identifier

Product name Hi-Yield Horticultural Hydrated Lime
Substance name Calcium Hydroxide Ca(OH)₂

Supplier's details

Name Voluntary Purchasing Groups, Inc.
Address 230 FM 87
Bonham, TX 75418
USA

Telephone 855-270-4776

Emergency phone number(s)

In the event of a medical or chemical emergency contact ChemTel, Inc.
North American 1-800-255-3924 or worldwide Intl. + 01-813-248-0585

SECTION 2: Hazard identification

Classification of the substance or mixture

- Eye damage/irritation (chapter 3.3), Cat. 1
- Skin corrosion/irritation (chapter 3.2), Cat. 2
- Carcinogenicity (chapter 3.6), Cat. 1

GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H318 Causes serious eye damage
H315 Causes skin irritation
H350 May cause cancer

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Precautionary statement(s)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P264	Wash exposed skin thoroughly after handling.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.
P501	Dispose of contents/container in accordance with applicable regulations.

Other hazards which do not result in classification

No data available.

Statement regarding ingredients of unknown toxicity (OSHA)

No data available.

SECTION 3: Composition/information on ingredients

Substances

Substance name	Calcium Hydroxide Ca(OH) ₂
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Hazardous components

1. Calcium Hydroxide

Concentration	94 % (Weight)
CAS no.	1305-62-8

2. Magnesium Oxide

Concentration	1 % (Weight)
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3. Silica, crystalline (airborne particles of respirable size)

Concentration	1 % (Weight)
CAS no.	14808-60-7

SECTION 4: First-aid measures

Description of necessary first-aid measures

If inhaled	This product can cause severe irritation of the respiratory system. Move victim to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.
In case of skin contact	Contact can cause severe irritation or burning of skin. Wash exposed area with large amounts of soap and water. Wear the proper clothing that

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will provide less direct contact with the person's skin. Seek medical attention immediately.

In case of eye contact

Contact can cause severe irritation or burning of eyes, including permanent damage. Do not rub eyes and immediately flush eyes with generous amounts of water for at least 15 minutes. Pull back the eyelid to ensure that all lime dust has been washed out. Seek medical attention immediately.

If swallowed

Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.

Personal protective equipment for first-aid responders

Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). Keep personnel away from and upwind of fire.

Most important symptoms/effects, acute and delayed

No data available.

Indication of immediate medical attention and special treatment needed, if necessary

See first aid information above. Note to Physicians: Provide general supportive measures and treat symptomatically.

SECTION 5: Fire-fighting measures

Suitable extinguishing media

Use media suitable to extinguish surrounding fire.

Specific hazards arising from the chemical

Hazardous Combustion Products: Calcium Oxide

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Spill /Leak Procedures:

Do NOT use water on bulk material spills. Lime reacts violently with water, releasing heat. Use proper protective equipment.

Small Spills:

Use dry methods to collect spilled materials. Avoid generating dust. Do not clean up with compressed air. Store collected materials in dry, sealed plastic or metal containers. Residue on surfaces may be water washed.

Large Spills:

Use dry methods to collect spilled materials. Evacuate area downwind of clean-up operations to minimize dust exposure. Store spilled materials in dry, sealed plastic or metal containers. Methods and materials for containment and cleaning up

Environmental precautions

No data available.

Methods and materials for containment and cleaning up

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Containment:

For large spills, as much as possible, avoid the generation of dusts. Prevent release to sewers or waterways.

Cleanup:

Residual amounts of material can be flushed with large amounts of water. Equipment can be washed with either a mild vinegar and water solution, or detergent and water.

SECTION 7: Handling and storage

Precautions for safe handling

Evacuate persons not wearing protective equipment from the area of the spill until clean-up is complete.

Collect powdered material in the most convenient and safe manner and deposit in sealed containers.

Avoid as much contact with the product as possible.

Ventilate and wash area after the clean-up is complete.

It may be necessary to contain and dispose of Hi-Yield Horticultural Hydrated Lime as a HAZARDOUS WASTE.

Contact your State Department of Environmental Protection or regional office of the Federal EPA for specific recommendation

SECTION 8: Exposure controls/personal protection

Control parameters

1. Magnesium oxide fume - Total Particulate (CAS: 1309-48-4)

PEL (Inhalation): 15 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

2. Magnesium oxide fume - Total Particulate (CAS: 1309-48-4)

PEL (Inhalation): 10 mg/m³ (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

3. Magnesium oxide fume - Total Particulate (CAS: 1309-48-4)

REL (Inhalation): See Appendix D (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

4. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

PEL (Inhalation): See Annotated Z-3 ppm (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

5. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

PEL (Inhalation): See Annotated Z-3 mg/m³ (OSHA)

OSHA Annotated Table Z-1, www.osha.gov

6. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

PEL (Inhalation): See Annotated Z-3 (Cal/OSHA)

OSHA Annotated Table Z-1, www.osha.gov

7. Silica, crystalline quartz, respirable dust (CAS: 14808-60-7)

REL (Inhalation): See Annotated Z-3 (NIOSH)

OSHA Annotated Table Z-1, www.osha.gov

Appropriate engineering controls

Provide ventilation adequate to maintain PELs.

Individual protection measures, such as personal protective equipment (PPE)

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Eye/face protection

Use NIOSH/MSHA N95 approved respirators if airborne concentration exceeds PEL.

Skin protection

Use appropriate gloves to prevent skin contact. Where there is a risk of skin contact, wear suitable clothing to prevent such contact.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Solid/ White or grayish - white
Odor	Odorless
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	Melting Point : 580 C
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	Slightly Soluble in Water
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Other safety information

No data available.

SECTION 10: Stability and reactivity

Reactivity

Not generally reactive under normal conditions

Chemical stability

Stable under normal conditions

Possibility of hazardous reactions

Mixture with strong acids

Conditions to avoid

None known

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Incompatible materials

Strong Acids

Hazardous decomposition products

Calcium Oxides

SECTION 11: Toxicological information

Information on toxicological effects

Additional information

Information on the likely routes of exposure:

Inhalation and ingestion

Symptoms related to the physical, chemical and toxicological characteristics:

Nausea, Coffee Ground Emesis, Diarrhea, and Dermatitis

SECTION 12: Ecological information

Toxicity

This material is not to be expected to be harmful to the ecology

Persistence and degradability

Dissolved in water

Bioaccumulative potential

This material shows no bioaccumulation effect or food chain concentration toxicity.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied, and unmixed, becomes a waste, it will not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act.

SECTION 14: Transport information

DOT (US)

UN Number: Not Regulated

Proper Shipping Name: Calcium Hydroxide

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Environmental hazards: This material is alkaline and if released into water or moist soil will cause an increase in pH

SECTION 15: Regulatory information

Safety, health and environmental regulations specific for the product in question

New Jersey Right To Know Components

Common name: MAGNESIUM OXIDE

CAS number: 1309-48-4

Pennsylvania Right To Know Components

Chemical name: Magnesium oxide

CAS number: 1309-48-4

New Jersey Right To Know Components

Common name: SILICA, QUARTZ

CAS number: 14808-60-7

Pennsylvania Right To Know Components

Chemical name: Quartz

CAS number: 14808-60-7

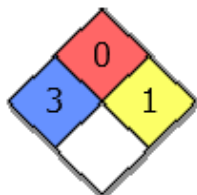
California Prop. 65 components

Chemical name: Silica, crystalline (airborne particles of respirable size)

CAS number: 14808-60-7

10/01/1988 - cancer

NFPA Rating



SECTION 16: Other information

No data available.