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 or 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

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

Hazardous components

1. Calcium Hydroxide

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

2. Magnesium Oxide

Concentration	1 % (Weight)

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

	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
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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

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)

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	Meting 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

Incompatible materials
Strong Acids

Hazardous decomposition products
Calcium Oxides

SECTION 11: Toxicological information

Information on toxicological effects

Additional information
nformation on the likely routes of exposure:
Inhalation and ingestion
Symptoms related to the physical, chemical and toxological 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

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.