MATERIAL SAFETY DATA SHEET



Hi-Yield® Horticultural Hydrated Lime

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

Voluntary Purchasing Groups, Inc. 230 FM 87 Bonham, Texas 75418

Effective Date: May 23, 2012

1. PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT: Hi-Yield® Horticultural Hydrated Lime

CHEMICAL NAME: Calcium hydroxide

FORMULA: Ca(OH)2

COMPANY IDENTIFICATION:

Voluntary Purchasing Groups, Inc.

230 FM 87

Bonham, TX. 75418

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CHEMICAL COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Calcium hydroxide	1305-62-0	100	5 mg/m3	5 mg/m3

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration.

TLV: Threshold Limit Value recommended by the American Conference of Governmental Industrial Hygienists.

3. PHYSICAL DATA:

BOILING POINT (°F)	SPECIFIC GRAVITY (H ₂ O=1)			VAPOR PRESSURE (mm Hg)	
Decomposes at 1076 degrees F	2.2-2.4			Nil	
PERCENT VOLATILE BY VOLUME (%)	VAPOR DE	NSITY (AIR=1)	EVAPO	DRATION RATE (ethyl ether=1)
Non-volatile	-	Does not ap	ply	Nil	
SOLUBILITY IN WATER		REACTIVITY IN WATER			
Slight (0.18%)		Will not evolve flammable or toxic gases			
APPEARANCE AND ODOR					
White, off-white; faint musty, earthy or	dor.				

4. FIRE AND EXPLOSION DATA:

FLASH POINT (°F)	FLAMMABLE LIMITS IN AIR (% by volume)			
Will not ignite	Lower: Does not apply Upper: Does not apply			
EXTINGUISHING MEDIA		AUTO IGNITION TEMPERATURE		
Dry chemical, CO2, Halon, water spray, or standard form		Does not apply		
UNUSUAL FIRE AND EXPLOSION HAZARDS				
Hydrated lime in itself is not flammable but when in contact with water, it could hydrate further evolving heat, which				
could ignite paper, wood, or rags, which may be in contact with the agent during the hydration process.				
SPECIAL FIRE FIGHTING PROCEDURES				
Do not touch spilled material. Cool containers with flooding amounts of water. Utilize self-contained breathing				
apparatus with full-face piece operated in pressure demand or other positive pressure mode.				

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5. HEALTH INFORMATION:					
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PRIMARY ROUTES OF EXPOSURE AND TARGET ORGANS					
Skin and eye contact, inhalation, ingestion.					
SIGNS AND SYMPTOMS OF EXPOSURE					
(1) ACUTE OVEREXPOSURE					
Inhalation may cause irritation and ulceration of the respiratory passages. S	kin contact may result in irritation with				
erythema, blistering and possible burns, which may result in brownish stains					
corneal burns and may result in blindness. Ingestion may result n alkaline bu					
membranes, esophagus and stomach. Symptoms of respiratory discomfort,					
may lead to weak and rapid pulse, shallow respiration, circulatory collapse a					
(2) CHRONIC OVEREXPOSURE					
Inhalation and ingestion may result in inflammatory and ulcerative changes in	n the mouth, bronchial, and				
gastrointestinal disturbances. Skin contact may lead to dermatitis. Eye contact					
Repeated or prolonged ingestion may result in metabolic acidosis.	, , , , , , , , , , , , , ,				
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE					
Disorders of the eyes, skin, respiratory and digestive systems.					
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CA	RCINOGEN				
None					
NTP IARC	OSHA				
□yes ⊠no □yes ⊠no	☐ YES ☒ NO				
OTHER EXPOSURE LIMITS					
None determined					
EMERGENCY AND FIRST AID PROCEDURES					
INHALATION: Remove to fresh air. If not breathing, give artificial respiration					
breathing is difficult give oxygen. Call a physician. SKIN OR EYE CONTACT: Immediately flush eyes with water					
for at least 15 minutes. Vigorous irrigation dislodges some particles mechan					
may be necessary to double evert the lids and swab or brush material from the fornices. Special efforts must be					
made to remove the deposits promptly in order to avoid prolonged exposure to the eye to a continuing source of					
calcium hydroxide. Call a physician. Flush skin with water. Wash clothing before reuse. INGESTION: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth					
to an unconscious person. Call a physician. Examine victim for possible corrosive injury to mouth and throat.					
to air unconscious person. Can a physician. Examine victim for possible con	osive injury to mouth and throat.				
6. REACTIVITY DATA:					
STABILITY _ CONDITIONS TO AVOID					
☐ Unstable ☐ Stable ☐ Contact with water or acid will evolve heat.					
INCOMPATIBILITY (Materials to Avoid)					
Chlorinated phenols + potassium nitrate, maleic anhydride, nitroethane, nitroparaffins, and phosphorous.					
HAZARDOUS DECOMPOSITION PRODUCTS					
Thermal decomposition will produce calcium oxide or lime.					
HAZARDOUS POLYMERIZATION CONDITIONS TO AVOID					
☐ May Occur Will Not Occur Does not apply					

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7. SPILL OR LEAK PROCEDURES:

STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED

Do not touch spilled material. Utilize personal protective equipment. Vacuum or shovel spilled material into labeled container for disposal or reuse. Keep unnecessary people away. Comply with all applicable governmental regulations concerning spill reporting, handling, and disposal of waste.

WASTE DISPOSAL METHOD

Dispose of in accordance with Federal, State, and local regulations.

8. PERSONAL PROTECTION INFORMATION:

RESPIRATORY PROTECTION

NIOSH/MSHA approved respiratory devices to provide high-efficiency protection against dusts.

VENTILATION

Local or general exhaust to maintain exposure below TLV/PEL.

PROTECTIVE GLOVES

Appropriate gloves to prevent skin contact.

EYE PROTECTION

Splash-proof or dust-resistant safety goggles to prevent eye contact with this substance. Contact lenses should not be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

When necessary utilize impervious clothing and other equipment to prevent skin contact with this substance.

9. PHYSICAL AND CHEMICAL PROPERTIES:

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Store in a dry area away from incompatible substances..

OTHER PRECAUTIONS

Prolonged contact with hydrated lime in the presence of moisture may cause irritation or burns. Do not allow hydrated lime dust to accumulate on exposed skin or clothing.

10. TRANSPORT INFORMATION:

Not regulated by DOT or IMDG.

11. OTHER INFORMATION:

The information contained within was obtained from authoritative sources and is believed to be accurate for the manner in which the product is intended to be used. Other uses could result in ramifications, which are not included within this document.