Material
Safety
Data
Sheet

Hi-Yield® Horticultural Hydrated Lime

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Name: Voluntary Purchasing Groups, Inc.	Box 460, Bonham, TX 75418			
Emergency Telephone: (903) 583-5501 or (800) 424-9300 (Chemtrec)				
For Additional Information Contact: Product Manager	Date Prepared: 03-14-03			
or Chemtrec				
Common Name (Used on Label):	Chemical Family: Hydrated Lime			
Hi-Yield® Horticultural Hydrated Lime				
Chemical Name: Calcium hydroxide	Formula: Ca(OH)2			
Trade Name & Synonyms: Hi-Yield® Horticultural Hydrated Lime				

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENT	CAS NUMBER	% (TYPICAL)	TLV (UNITS)	PEL (UNITS)
Calcium hydroxide	1305-62-0	100	5 mg/m3	5 mg/m3
Calcium oxide	1305-78-8	71.32	2 mg/m3	5 mg/m3
Silicon dioxide	Not determined	1.00	See Note 1	See Note 1
Carbon dioxide	124-38-9	1.04	5000ppm	10000 PPM
Trace elements	Not determined	2.48	Not determined	Not determined
Chemically combined water	Not determined	24.16	Not established	Not established

(1) TLV/PEL for Silicon dioxide: Amorphous silica=10 mg/m3; Cristobalite and Tridymite=0.05 mg/m3; Quartz, Tripoli, and Fused Silica=0.1 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.

SECTION 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)	EVAP(DRATION RATE (ethyl ether=1)
Non-volatile	Does not apply		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 of	dor.				

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT (°F)	FLAMMABLE LIMITS IN AIR (% by volume)				
Will not ignite	Lower: <u>Does not apply</u> Upper: <u>Does not apply</u>				
EXTINGUISHING MEDIA		AUTO IGNITION TEMP	ERATURE		
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					
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could ignite paper, wood, or rags, which may be in contact with the agent during the hydration process.

SPECIAL FIRE FIGHTING PROCEDURES

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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.

SECTION 5 - HEALTH INFORMATION

PRIMARY ROUTES OF EXPOSURE	AND TARGET ORGANS			
Inhalation, skin and eye contact, inge				
SIGNS AND SYMPTOMS OF EXPOS				
(1) ACUTE OVEREXPOSURE				
Inhalation may cause irritation and ul	ceration of the respiratory passages.	Skin contact may result in irritation with		
		ins. Eye contact may result in severe		
corneal burns and may result in I	olindness. Ingestion may result n	alkaline burns of the mouth, mucous		
		, vomiting, and diarrhea may occur and		
	allow respiration, circulatory collapse a	ind renal failure.		
(2) CHRONIC OVEREXPOSURE				
		nanges in the mouth, bronchial, and		
		e contact may result in conjunctivitis.		
Repeated or prolonged ingestion may				
MEDICAL CONDITIONS GENERALL				
Disorders of the eyes, skin, respirator				
	S CARCINOGEN OR POTENTIAL CA	RCINOGEN		
None				
NTP_	IARC	OSHA		
☐ YES 🗵 NO	☐ YES ☒ NO	☐ YES ☒ NO		
OTHER EXPOSURE LIMITS				
None determined				
EMERGENCY AND FIRST AID PRO				
INHALATION: Remove to fresh air.	If not breathing, give artificial resp	oiration, preferably mouth-to-mouth. If		
		ACT: Immediately flush eyes with water		
for at least 15 minutes. Vigorous irr	igation dislodges some particles med	hanically, but for complete cleansing, it		
may be necessary to double evert th	e lids and swab or brush material from	n the fornices. Special efforts must be		
made to remove the deposits promp	tly in order to avoid prolonged exposu	re to the eye to a continuing source of		
		ng 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 phy	sician. Examine victim for possible co	rrosive injury to mouth and throat.		
	SECTION 6 - REACTIVITY DATA			
STABILITY CONDI	TIONS 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			

ID Number:

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SECTION 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 regulation.

SECTION 8 - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

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

VENTILATION

General or local exhaust to maintain employee exposure below the 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.

SECTION 9 - SPECIAL PRECAUTIONS

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.

SECTION 10 - 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.