Material Safety Data Sheet U.S. Department of Labor May be used to comply with Occupational Safety and Health Administration OSHA's Hazard Communication Standard (Non-Mandatory Form) 29 CFR 1910.1200. Standard must be Form Approved consulted for specific requirements. OMB No. 1218-0072 IDENTITY Quicklime, CaO, Lime Calcium oxide (all sizes including granular) (UN1910)

Section I

Manufacturer's Name and Address Chemical Lime Company 3724 Hulen Street Fort Worth, Texas 76107			Emergency Telephone Number Chemtrec 800-424-9300				
			Information Phone Number 817-732-8164		Date Prepared 3/30/2006		
Section II - Hazardous	s Ingredients/Ide	ntity Information					
Hazardous Components	CAS	Common Name	OSHA PEL	ACGIH TLV	Other Limits	% (optional)	
Calcium oxide	1305-78-8	Quicklime	5 mg/m3	2 mg/m3	5 mg/m3	>90%	
Magnesium oxide	1309-48-4	Periclase	10 mg/m3	10 mg/m3	6 mg/m3	<5%	
Calcium carbonate	1317-65-3	Limestone	15 mg/m3	10 mg/m3	6450 mg/kg	<3%	
Silicon dioxide	14808-60-7	Quartz	*see note below	0.025 mg/m3	4 mg/m3	<2%	

*SiO2 OSHA PEL: 10 mg/m3 divided by (the percentage of silica in the dust plus 2) (respirable)

Section III - Physical/C	hemical Cha	racteristics				
Boiling Point	2850 °C	Melting Point	2570 °C	Specific Gravity	1.6 - 2.8 g/cc	
Vapor Pressure (mm Hg)	N.A.	Vapor Density	N.A.	Evaporation Rate	N.A.	
Solubility in Water	Reactive with water to produce $Ca(OH)_2$ with large amounts of heat. pH = 12.4@25°C					
Appearance and Odor	White or gr	ay lumps or powder, c	odorless			
Section IV - Fire and E	xplosion Haz	ard Data				
Flash Point	LEL/UEL Flammable Limits Extinguishing Media					
N.A.	N.A.	N.A.	Not Combustible Use extinguishing agent for surrounding fire			
Special Firefighting Procedu	res/Unusual Fire	and Explosion Hazards				
In large amounts, calciu	m oxide will re	eact with water to prod	luce heat and po	ssibly steam.		
Flood with excess water	to remove he	eat.				
Section V - Reactivity	Data					
Stability Conditions to	o Avoid (stability	/ - related)				
Unstable Reacts with	h water to forr	n Ca(OH) ₂ and large a	amounts of heat.	Reacts with CO ₂ to	form CaCO ₃ .	
ncompatibility (Materials to	Avoid)					
Acids: Reacts vigorous	y and produce	es heat. Maleic Anhyo	dride: May react	explosively. Nitro O	rganic	
Compounds: May react		-			-	
Aluminum: May react ir	presence of	water to form hydroge	n gas.	·		
Hazardous Polymerization/H	•		C C	Will not occur (ne	one)	
Section VI - Health Haz	zard Data			· · · · ·		
Route(s) of Entry:	Inhalation,	Ingestion				
Health Hazards (Acute and C	hronic)	-				
Avoid skin and eye cont	act as irritation	n will occur. Contact le	enses should not	be worn when		
working with lime produce	cts. Inhalation	can cause coughing,	sneezing or brea	athing problems. Mat	erial in contact with we	
skin could cause severe						
Carcinogenicity:	OSHA?	SiO ₂	NTP/IARC Mor	nographs?	SiO ₂	
Respirable crystalline si		•	-	•	•	
California Pronosition 6 ¹	5. Silica is on	the Covernor's Prono	sition 65 list Co	mnonents used in th	is product may	

California Proposition 65: Silica is on the Governor's Proposition 65 list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium) that are on the Governor's Proposition 65 list.

Section VI - Health Hazard Data (continued)

Signs and Symptoms of Exposure

Skin or eye irritation; coughing or breathing problems.

Medical Conditions Generally Aggravated by Exposure

Respiratory problems, asthma, dermatitis or skin or eye sensitivity.

Emergency and First Aid Procedure

Flush contaminated area with excess water. If eye contact, rinse eye with eye wash solution or excess water and seek medical attention immediately.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Protect skin and eyes from contact and avoid inhalation of dust. If material is dry pick up and keep away from acids or organic materials. Place in steel drums. If wet add excess water to remove heat and place in steel drums.

Waste Disposal Method

Carefully add water in excess of 20 parts water to 1 part lime and flush to sewer. Consult local, state, or federal regulations. **Precautions to be Taken in Handling and Storage**

Store in tightly closed containers and keep dry and away from acids or other incompatible substances. Do not store or ship in aluminum containers.

Shipping and Handling Restrictions for Quicklime

When being transported by air, calcium oxide is classified in the Department of Transportation (DOT) regulations as a hazardous material. Because express carriers (for example, Federal Express, Airborne Express, and United Parcel Service) ship by air, quicklime presented to these carriers for shipment should be packaged, marked, and labeled accordingly, and be accompanied by the appropriate shipping documentation. Only personnel trained and certified under applicable DOT Hazardous Materials Regulations (contained in Title 49 of the Code of Federal Regulations) may prepare quicklime for air transport. For additional information, contact the DOT website, www.text-trieve.com/dotrspa, or the Research and Development Department of Chemical Lime Company at (817)732-8164.

Other Precautions					
Keep material dry.	If material gets wet, f	lood	with excess water to remove heat.	Avoid eye contact and breathing dust.	
NFPA Rating:	HEALTH:	3	FLAMMABILITY: 0	REACTIVITY: 1	
HMIS Rating:	HEALTH:	2	FLAMMABILITY: 0	REACTIVITY: 1	
WHMIS Rating:	D2A, E				
Section VIII - Control Measures					

Respiratory Protection (Specify Type) Dust masks meeting the NIOSH N95 rating are sufficient for casual exposure. (42 CFR) Ventilation Local Exhaust Do not dispose of dust with Special combustible materials. Vent to dust collector **Mechanical (General)** Other Vent to meet TLV requirements **Other Protective Clothing or Equipment Protective Gloves** Dry cloth or leather gloves Full clothing to cover arms and legs, safety glasses or face shield. Work/Hygienic Practices

Eye wash and shower station should be readily available.

Chemical Lime Company provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person. Individuals receiving this information must consult their own technical and legal advisors and/ or exercise their own judgment in determining its appropriateness for a particular purpose. Chemical Lime Company makes no representations or warranties, either express or implied, including without limitation and warranties of merchantability or fitness for a particular purpose with respect to the information set forth herein or the product(s) to which the information refers. Accordingly, Chemical Lime Company will not be responsible or liable for any claims, losses or damages resulting from the use of or reliance upon or failure to use this information.