

OFI TESTING EQUIPMENT, INC.  
**MATERIAL SAFETY DATA SHEET**

Effective Date:02/22/02

<b>SECTION I - PRODUCT IDENTIFICATION</b>	
<b>Chemical Name:</b>	CALCIUM HYDROXIDE
<b>Trade Name:</b>	CALCIUM HYDROXIDE POWDER
<b>OFI Part No.</b>	144-90-01
<b>Chemical Family:</b>	Calcium Hydrate, Slaked Lime
<b>Formula:</b>	Ca(OH) <sub>2</sub>
<b>SECTION II - HAZARDOUS CONSTITUENTS</b>	
<b>CAS #:</b>	<b>CHEMICAL NAME</b>
1305-62-0	Calcium Hydroxide 95 to 100%
<b>SECTION III - PHYSICAL PROPERTIES</b>	
<b>Appearance / Odor:</b>	Fine White Powder Odorless
<b>Solubility:</b>	0.185 g in 100 mL Water
<b>Specific Gravity:</b>	2.24
<b>pH:</b>	12.4 (Saturated Solution)
<b>% Volatiles by Vol.:</b>	0
<b>Melting Point:</b>	1076 °F (580 °C)
<b>Boiling Point:</b>	Decomposes
<b>Vapor Density (Air=1):</b>	No Information Found.
<b>Vapor Pressure (mmHg):</b>	No Information Found.
<b>SECTION IV - FIRE, EXPLOSION AND REACTIVITY</b>	
<b>Fire:</b>	Not Considered to be a Fire Hazard.
<b>Explosion:</b>	Not Considered to be a Explosion Hazard.
<b>Fire Extinguishing Media:</b>	Use any means Suitable for Extinguishing Surrounding Fire.
<b>Special Information:</b>	In the Event of a Fire, Wear Full Protective Clothing and NIOSH-Approved Self-Contained Breathing Apparatus with Full Facepiece Operated in the Pressure Demand or Other Positive Pressure Mode.
<b>General Reactivity:</b>	Stable Under Ordinary Conditions of Use and Storage. Readily absorbs Carbon Dioxide from Air to form Calcium Carbonate.
<b>Hazardous Decomposition:</b>	Caustic fumes of calcium oxide form when heated to decomposition temperature 1076 °F (580 °C)
<b>Incompatibilities:</b>	Violent reactions with maleic anhydride, nitroethane, nitroparaffins, nitropropane, phosphorous. As a strongly alkaline material, it is incomplete with acids.
<b>Hazardous Polymerization:</b>	Will Not Occur.
<b>SECTION V - HEALTH HAZARD INFORMATION</b>	
<b>Inhalation:</b>	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Can cause chemical bronchitis.
<b>Ingestion:</b>	Gastric irritant. Ingestion may be followed by severe pain, vomiting, diarrhea, and collapse. If death does not occur in 24 hours, esophageal perforation may occur, as evidenced by fall in blood pressure and severe pain. A narrowing of the esophagus may occur weeks, months, or years after ingestion, making swallowing difficult.
<b>Skin:</b>	Corrosive. May cause sever burns and blistering, depending on duration of contact.
<b>Eye Contact:</b>	Corrosive. May produce severe irritation and pain. May induce ulcerations of the corneal epithelium. Can cause blindness.
<b>Chronic Exposure:</b>	Prolonged or repeated skin contact may produce severe irritation or dermatitis.

<b>SECTION V - HEALTH, HAZARD INFORMATION (cont.)</b>	
<b>Carcinogenic References:</b>	NTP Carcinogen - Known: No, IARC Category- None
<b>Aggravated by Exposure:</b>	Persons with pre-existing skin problems or impaired respiratory function may be more susceptible to the effects of this substance.
<b>SECTION VI - EMERGENCY &amp; FIRST AID PROCEDURES</b>	
<b>Inhalation:</b>	Remove to Fresh Air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.
<b>Ingestion:</b>	DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. Call a physician immediately.
<b>Skin:</b>	In case of contact, wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician immediately.
<b>Eyes:</b>	In case of Contact, Immediately Flush Eyes with Plenty of Water for at Least 15 Minutes, Lifting Upper and Lower Eyelids Occasionally. Call a Physician if Irritation Persists.
<b>SECTION VII - INDUSTRIAL HYGIENE MEASURES</b>	
<b>Ventilation System:</b>	A System of Local and/or General Exhaust is Recommended to Keep Employee Exposures Below the Airborne Exposure Limits. Local Exhaust Ventilation is Generally Preferred Because it can Control the Emissions of the Contaminant at its Source, Preventing Dispersion of it into the General Work Area.
<b>Airborne Exposure Limits:</b>	OSHA Permissible Exposure Limit (PEL): 15 mg/m <sup>3</sup> Total Dust, 5 mg/m <sup>3</sup> Respirable Fraction for Nuisance Dusts. ACGIH Threshold Limit Value (TLV): 5 mg/m <sup>3</sup> Total Dust.
<b>Personal Respirators: (NIOSH APPROVED)</b>	If the Exposure Limit is Exceeded, a Half-Face Dust/Mist Respirator may be Worn for up to Ten Times the Exposure Limit or the Maximum use Concentration Specified by the Appropriate Regulatory Agency or Respirator Supplier, Whichever is Lowest. A Full-Facepiece Dus/Mist Respirator may be Worn up to 50 Times the Limit, or the Maximum use Concentration Specified by the Appropriate Regulatory Agency, or Respirator Supplier, Whichever is Lowest. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.
<b>Skin Protection:</b>	Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
<b>Eye Protection:</b>	Use Chemical Safety Goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain Eye Wash Fountain and Quick-Drench Facilities in Work Area.
<b>SECTION VIII - INDUSTRIAL HYGIENE MEASURES</b>	
<b>Accidental Release:</b>	Ventilate Area of Leak or Spill. Wear Appropriate Personal Protective Equipment as Specified in Section 7. Sweep up and Containerize for Reclamation or Disposal. Vacuuming or Wet Sweeping may be used to Avoid Dust Dispersal.
<b>Disposal:</b>	Whatever Cannot be Saved for Recovery or Recycling Should be Managed in an Appropriate and Approved Waste Disposal Facility. Processing, use or Contamination of this Product may Change the Waste Management Options. State and Local Disposal Regulation may Differ from
<b>Environmental Fate:</b>	Federal Disposal Regulations. Dispose of Container and Unused Contents in Accordance with Federal, State and Local Requirements. This material is not expected to significantly bioaccumulate.
<b>SECTION IX - SPECIAL PRECAUTIONS</b>	
<b>Handling and Storage:</b>	Keep in a Tightly Closed Container, Stored in a Cool, Dry, Ventilated Area. Protect against Physical Damage.
<b>SECTION X - DOT SHIPPING REQUIREMENTS</b>	
<b>Shipping Name:</b>	
<b>Hazard Class:</b>	NOT REGULATED
<b>Identification No.:</b>	NOT REGULATED
<b>NFPA Rating:</b>	HEALTH-3, FLAMMABILITY-0, REACTIVITY-0
<b>SECTION XI - IN CASE OF EMERGENCY</b>	
<b>(713) 880 - 9884</b>	<b>OFI TESTING EQUIPMENT, INC. - Regular Business Hours</b>
<b>(713) 880 - 9885</b>	<b>OFI TESTING EQUIPMENT, INC. - After Regular Business Hours</b>

