

MSDS - Material Safety Data Sheet**Product Name: Activator Crystals-Calcium Oxide (Lime)**

MSDS No.: HGI

I. Basic Information:

Manufacturer: Sirchie Finger Print Laboratories

Address: 100 Hunter Place

City, ST Zip: Youngsville, NC 27596

Emergency Contact: ChemTrec

Emergency Telephone Number: 800-424-9300

Contact: Tech Support

Information Telephone Number: 919-554-2244

Last Update: 01/27/2011

Expiration Date:

Chemical State: Liquid Gas SolidChemical Type: Pure Mixture

1	Health
0	Flammability
1	Reactivity
E	Pers. Protection

II. Ingredients: Trade Secret (N/D = Not Disclosed)

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
1305788	Calcium oxide	100%						5mg/m3	2mg/m3		

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

DANGER! CAUSES SEVERE IRRITATION AND BURNS TO EVERY AREA OF CONTACT. HARMFUL IF SWALLOWED OR INHALED.

IV. First Aid Measures:

Route(s) of Entry:

Inhalation, ingestion, skin, eyes

Health Hazards (Acute and Chronic):

INHALATION: Dust is highly irritating and possibly corrosive to upper respiratory tract. May cause perforation of the nasal septum.

INGESTION: Corrosive. May attack esophagus. Abdominal pain, nausea, vomiting may result. May cause severe alkali burns in the mouth and throat.

SKIN CONTACT: Irritant; may cause severe corrosive damage.

EYE CONTACT: Severe irritant, may damage eye tissues. Causes redness, tearing, blurred vision, pain.

CHRONIC EXPOSURE: Chronic inhalation of dust may cause inflammation of the respiratory passages, ulcers of the mucous membranes, and possible perforation of nasal septum.

Signs and Symptoms:

Coughing, sneezing, labored breathing, burning sensation.

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Medical Conditions Generally Aggravated by Exposure:

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of this substance.

Emergency and First Aid Procedures:

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

INGESTION: DO NOT INDUCE VOMITING! Give large quantities of water or milk, if available. Never give anything by mouth to an unconscious person. Get medical attention immediately.

SKIN CONTACT: Immediate flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician immediately. Wash clothing before reuse.

EYE CONTACT: Wash thoroughly with running water for at least 15 minutes. Be sure to wash under eyelids. Get medical attention if irritation develops.

Other Health Warnings:

V. Fire Fighting Measures:

Flash Point: NA

Lower Explosive Limit: NA

Upper Explosive Limit: NA

F.P. Method:

Fire Extinguishing Media: Not considered to be a fire hazard. Lime and water can react exothermically with sufficient heat to ignite combustible materials in certain instances. Use any means suitable to extinguish fire in surrounding materials.

Special Fire Fighting Procedures:

In the event of 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.

Unusual Fire and Explosion:

Not considered to be an explosion hazard. The combination of lime and water at high temperatures may be explosive.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Ventilate area of leak or spill. Keep unnecessary and unprotected people away from the area of spill. Wear appropriate personal protective equipment as specified in Section VIII.

Spills: Pick up and place in suitable container for reclamation or disposal using a method that does not generate dust.

VII. Handling and Storage:

Precautions to be Taken:

Keep in tightly closed container. Protect from physical damage. Store in cool, dry, ventilated area away from sources of heat, moisture and incompatibilities. This strongly alkaline material will swell and generate heat when moistened and could burst container.

Other Precautions:

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and banded and then disposed of according to local, state and federal regulations.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

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A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits (See Ingredients Section). 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.

Personal Protective Equipment:

PERSONAL RESPIRATORS (NIOSH APPROVED)

If the exposure limit is exceeded, a full facepiece respirator with dust/mist filter may be worn up to 50 times the exposure limit. When exposure limits are not known, use a full-facepiece positive-pressure, air-supplied respirator.

WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

SKIN PROTECTION:

Wear impervious protective clothing including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

EYE PROTECTION:

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.

IX. Physical and Chemical Properties:

Boiling Point: 5162° F

Melting Point: 4662° F

Evaporation Rate (Butyl Acetate = 1): NA

Vapor Pressure (mm Hg.): NE

Specific Gravity (H2O = 1):

Vapor Density (AIR = 1): NE

Solubility In Water: Slightly soluble with release of heat.

Appearance and Odor: Odorless, white to yellowish powder

Other Information: Forms calcium hydroxide when wet.

X. Stability and Reactivity:

Stability:

Stable at room temperature in sealed container.

Incompatibility (Materials to Avoid):

Water, acids, humid air, hydrogen fluoride, phosphorous pentoxide, boric oxide, steam, and many organic substances

Decomposition/By Products:

None.

Hazardous Polymerization:

Will not occur.

XI. Toxicological Information:

NTP/IARC Cancer Lists: Not listed.

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XII. Ecological Information:

This material is expected to be toxic to aquatic life.

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XIII. Disposal Considerations:

Dispose of container and unused contents in accordance with federal, state, and local requirements.

"Empty" containers may contain product residue and may be dangerous. Empty containers should be completely drained and bunged and then disposed of according to local, state and federal regulations.

XIV. Transport Information:

IATA:
Proper Shipping Name: Calcium Oxide
Hazard Class: 8
UN/NA: 1910
Packing Group III
(Information reported for product size of 100 lbs.)

XV. Regulatory Information:

This product is listed in the TSCA inventory.

XVI. Other Information:

Do not get in eyes, on skin, or on clothing. Do not breathe dust. Keep in closed container. Use only with adequate ventilation. Wash thoroughly after handling.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of the information for their particular purposes.

Using this product under normal, properly instructed procedures should not be hazardous.