

Approved by:

Zoraly Anthony

June 21, 2010

SECTION 1. PRODUCT IDENTIFICATION

Name: Soda Lime
Synonym: Slacked Lime, Calcium Hydroxide, Calcium Hydrate
Catalog# 630-00556-00, 630-00999-00

Additional Information Contact: 800.477.1227
24 Hour Emergency Contact: 410-768-8155 (AIRPACK; 500 McCormick Dr.; Glen Burnie, MD 21061)

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # 8006-28-8

The main components of **SODA LIME** are

- Calcium Hydroxide, Ca(OH)₂; about 75%; CAS # 1305-62-0
- Water, H₂O; about 20%; CAS # 7732-18-5
- Sodium Hydroxide, NaOH; about 3%; CAS # 1310-73-2
- Potassium Hydroxide, KOH; about 1%; CAS # 1310-58-3

SECTION 3. PRODUCT USE

Specifically for use as a CO₂ scrubber in the Shimadzu TOC 500, TOC 5000 Series, TOC-V_C Series, and TOC 4000 Series instruments. consult the appropriate instrument manual for proper use. Lab Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES

SECTION 4. PHYSICAL DATA

Appearance:	White Solid Pellets	Odor:	Odorless
Melting Point:	N/A	Boiling Point:	N/A,
Density:	N/A	Vapor Pressure:	N/A
Solubility:	N/A (in Water)		

SECTION 5. HAZARDS IDENTIFICATION

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

Health Risk: Severe
Flammability: None
Reactivity: Slight
Contact Risk: Severe (Corrosive)
Storage Risk: Corrosive

SECTION 6. TOXICITY DATA

Rat/Mouse LD₅₀: N/A

RTECS #: VX965000

SECTION 7. HEALTH HAZARD DATA

Inhalation: Severe irritant. Effects from inhalation of dust or mist vary from mild irritation to serious damage of the upper respiratory tract depending on exposure. Severe pneumonitis may occur.

Ingestion: Swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result. 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.

Skin Contact: Corrosive! Contact with skin can cause irritation or severe burns and scarring with greater exposures.

Eye Contact: Corrosive. Contact with dust or solutions causes severe irritation and likely burns with corneal injury or blindness.

Chronic Exposure: Prolonged contact with dilute solutions or dust has a destructive effect upon tissue.

Pre-existing Conditions: Persons with pre-existing skin, eye or respiratory problems may be more susceptible to the effects of this substance.

SECTION 8. FIRST-AID MEASURES

- Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. **GET MEDICAL ATTENTION IMMEDIATELY.**
- Ingestion: If swallowed, **DO NOT INDUCE VOMITING.** Give large quantities of water if conscious. Never give anything by mouth to an unconscious person. **GET MEDICAL ATTENTION IMMEDIATELY.**
- Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. **GET MEDICAL ATTENTION IMMEDIATELY.** Wash clothing before reuse. Discard shoes.
- Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. **GET MEDICAL ATTENTION IMMEDIATELY.**

SECTION 9. FIRE FIGHTING MEASURES

- Extinguishing Media: Dry chemical powder
- Special Firefighting Procedures: Wear self-contained breathing apparatus and full protective clothing.
- Unusual Fire/Explosion Hazards: Emits Toxic Fumes Under Fire Conditions.

SECTION 10. ACCIDENTAL RELEASE MEASURES

- Evacuate area.
- Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Ventilate area and wash spill site after material pickup is complete.

SECTION 11. STABILITY AND REACTIVITY

- Stability: Readily absorbs carbon dioxide from air to form calcium carbonate.
- Incompatible materials: Strong acids, air/moisture sensitive Violent reactions with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus. Forms phosgene upon reaction with trichloroethylene or chloroform.
- Hazardous Decomposition Product: Caustic fumes of Calcium Oxide and/or Sodium/Sodium Oxides when heated to decomposition (580C; 1076F).
- Hazardous Polymerization: Will ***Not*** Occur.

SECTION 12. DISPOSAL

Dispose of container and unused contents in accordance with Federal, State, and Local requirements. State and Local disposal regulations may differ from Federal regulations and can be more stringent, but will never be less strict.

SECTION 13. OTHER INFORMATION

Chemical Inventory Status - Part 1				
Ingredient	TSCA	EC	Japan	Australia
Calcium Hydroxide (1305-62-0)	Yes	Yes	Yes	Yes
Sodium Hydroxide (1310-73-2)	Yes	Yes	Yes	Yes
Potassium Hydroxide (1310-58-3)	Yes	Yes	Yes	Yes

Chemical Inventory Status - Part 2				
Canada				
Ingredient	Korea	DSL	NDSL	Phil.
Calcium Hydroxide (1305-62-0)	Yes	Yes	No	Yes
Sodium Hydroxide (1310-73-2)	Yes	Yes	No	Yes
Potassium Hydroxide (1310-58-3)	Yes	Yes	No	Yes

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Federal, State & International Regulations - Part 1

Ingredient	SARA 302		SARA 313	
	RQ	TPQ	List	Chem. Cat.
Calcium Hydroxide (1305-62-0)	No	No	No	No
Sodium Hydroxide (1310-73-2)	No	No	No	No
Potassium Hydroxide (1310-58-3)	No	No	No	No

Federal, State & International Regulations - Part 2

Ingredient	CERCLA	RCRA	TSCA
		261.33	8(d)
Calcium Hydroxide (1305-62-0)	No	No	No
Sodium Hydroxide (1310-73-2)	1000	No	No
Potassium Hydroxide (1310-58-3)	1000	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
 SARA 311/312:
 Acute: Yes Chronic: Yes Fire: No Pressure: No

Australian Hazchem Code: 2X

Poison Schedule: S6

Transportation Information (for 2.5kg):

FOR: Domestic (Land, D.O.T.)
 International (Water, I.M.O.)
International (Air, I.C.A.O.)

Shipping Name: SODA LIME

Hazard Class: 8

UN/NA: UN1907

Packing Group: III

The information provided above is believed to be correct, but does not purport to be all inclusive and it must serve only as a guide. Shimadzu shall not be held liable for any damage resulting from handling or contact with the above product. Users should make their own determinations regarding the suitability of this information for their particular purposes