SAFETY DATA SHEET: SODA LIME

1. IDENTIFICATION

Product Name: SODA LIME

Synonyms:

Formula and Formula Weight: NA NA

Integra numbers beginning with: S200.10

Recommended Use: Commercial/industrial use

Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification:

Acute Toxicity - Oral: 4 Harmful if swallowed.

Skin Corrosion/Irritation: 1A Causes severe skin burns and eye damage.

Eye Damage/Irritation: 1 Causes serious eye damage.

Specific Target Organ Toxicity (single exposure): 3 May cause respiratory irritation.

Corrosive to Metals: 1 May be corrosive to metals.

Signal Word: Danger

Precautionary Statements

Prevention:

Keep only in original container.

Do not breathe dusts or mists.

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, protective clothing, eye protection, face protection.

Response

If swallowed: Call a poison center, doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a poison center, doctor.

Specific treatment (see first aid section on this label)

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage

Store locked up in a well ventilated place. Keep container tightly closed.

Store in a corrosive resistant container with a resistant inner liner.

Disposal

Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium hydroxide</td>
<td>Calcium hydrate; Slaked lime; Hydrated lime;</td>
<td>01305-62-0</td>
<td>&gt; 80</td>
</tr>
<tr>
<td></td>
<td>Caustic lime</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potassium hydroxide</td>
<td>Caustic potash; Potassium hydrate; Potassa</td>
<td>01310-58-3</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>Sodium hydroxide</td>
<td>Caustic soda; Lye; Soda lye; Sodium hydrate</td>
<td>01310-73-2</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Ethyl violet</td>
<td>Basic violet 4; Ethyl purple 6B</td>
<td>02390-59-2</td>
<td>&lt; 1</td>
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</tbody>
</table>

4. FIRST AID MEASURES
### 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Appearance</td>
<td>White, deliquescent pellets</td>
</tr>
<tr>
<td>Odor</td>
<td>No odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
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<td>Flammability</td>
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<td>Flammable or Explosive Limits (% by volume in air)</td>
<td>Upper: Not available</td>
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<td></td>
<td>Lower: Not available</td>
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<td>Vapor Pressure</td>
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### 5. FIRE-FIGHTING MEASURES

- **Extinguishing Media**: Water spray, carbon dioxide, dry chemical or foam.
- **Special Equipment and Precautions**: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
- **Specific Hazards**: None identified
- **Hazardous combustion products**: Caustic calcium oxide fumes when heated to decomposition (580°C).

### 6. ACCIDENTAL RELEASE MEASURES

- **Spill Procedures**: Prevent spread of spill. Wear full protective equipment and respiratory protection. Sweep or scoop into a suitable disposal container in a manner that does not generate dusts. Save for reclamation or disposal. Residues from spill can be diluted with water and neutralized with a dilute acid such as acetic acid (vinegar), hydrochloric acid or sulfuric acid. Absorb neutralized residue with clay, vermiculite or other inert substance and package for disposal.

### 7. HANDLING AND STORAGE

- **Incompatible Materials**: Incompatible with strong acids. Reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorus. Reacts with trichloroethylene or chloroform to form phosgene. Boric oxide, fluorine, many organic materials.
- **Storage and Handling**: Store in a cool, dry, well-ventilated corrosive materials storage area away from incompatible materials. Keep containers tightly closed and protect them from physical damage. Minimize exposure to air and light. Exposure to air causes the effectiveness of this material as a carbon dioxide absorbent to greatly diminish. Store tightly sealed when not in use.
  - Keep only in original container.
  - Do not breathe dusts or mists.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Use only outdoors or in a well-ventilated area.
  - Wear protective gloves, protective clothing, eye protection, face protection.

### 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

- **OSHA & ACGIH Exposure Limits**:
  - Calcium hydroxide: OSHA TWA: 5 mg/m³ (respirable fraction); 15 mg/m³ (total dust) ACGIH TWA: 5 mg/m³
  - Potassium hydroxide: ACGIH Ceiling: 2 mg/m³
  - Sodium hydroxide: OSHA TWA: 2 mg/m³ ACGIH Ceiling: 2 mg/m³
  - Ethyl violet: None identified
- **Engineering Controls**: Use general or local exhaust ventilation to meet TLV and PEL requirements.
- **Respiratory Protection**: Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved respirator with a particulate filter.
- **Skin/Eye Protective Equipment**: Safety goggles, protective clothing and gloves appropriate for the risk of exposure.
  - Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers.
  - Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

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10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur
Conditions to Avoid: Contamination. Air -- material readily absorbs carbon dioxide to form calcium carbonate.
Incompatibles: Incompatible with strong acids. Reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane, phosphorous. Reacts with trichloroethylene or chloroform to form phosgene. Boric oxide, fluorine, many organic materials.
Decomposition Products: Caustic calcium oxide fumes when heated to decomposition (580°C).

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful if inhaled. Severe irritant. Irritation to the respiratory system may vary from mild irritation to serious damage of the upper respiratory tract. Symptoms may include coughing, difficulty in breathing, sore throat and in severe cases, pneumonitis.
Skin Contact: Corrosive material. Contact may cause severe burns.
Eye Contact: Highly corrosive! Causes irritation with tearing, redness, swelling. Severe exposure causes severe burns possibly resulting in blindness.
Ingestion: Harmful or fatal if swallowed. Causes severe burns to the mouth, throat and stomach. Symptoms include vomiting, diarrhea and severe tissue scarring. 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.
Chronic Effects: Prolonged contact with dilute solutions or dust may have a destructive effect on tissue. Defatting dermatitis.
Target Organs: Eyes, skin, respiratory system.
Additional Effects: May aggravate pre-existing skin disorders, eye disorders, respiratory system disease
Reproductive Effects: None identified
Carcinogenicity: None identified

Toxicity Data:
- Calcium hydroxide: LD50 (oral, rat) 7300 mg/kg
- Potassium hydroxide: Irritation (eye, rabbit) Moderate: 1 mg/24 hr rinse
- Sodium hydroxide: LD50 (oral, rat) 273 mg/kg
- Ethyl violet: No information available

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data: Terrestrial Toxicity Data:
- Calcium hydroxide: LC50 Clarias gariepinus: 33.884 mg/L - 96h No information available
- Potassium hydroxide: LC50 Gambusia affinis: 80 mg/L - 96h No information available
- Sodium hydroxide: LC50 Mosquito fish: 125 mg/L - 96h; EC50 No information available
- Ethyl violet: No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: No information available

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number: UN1907
Proper Shipping Name: Soda lime
Packing Group: III
Hazard Class: 8
Environmental hazards: No information available
15. REGULATORY INFORMATION

Calcium hydroxide is listed in the TSCA inventory.
Potassium hydroxide is listed in the TSCA inventory.
Sodium hydroxide is listed in the TSCA inventory.
Ethyl violet is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26333 rev 101 3/27/2015

NE = Not established, NA = Not applicable or Not available

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***** END OF SDS *****