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**Product: Calcium Hydroxide mixture**

## 1. Chemical Product and Company Identification

**Trade Name:** Calcium Hydroxide  
**Synonyms:** ExtendAir ® CO<sub>2</sub> Adsorbent (Calcium Hydroxide)  
**Product Number:** CL-125C195  
**Product Use:** Carbon Dioxide Adsorption

**Manufacturer:**  
Micropore, Inc.  
350F Pencader Drive  
Newark DE 19702

**Emergency Phone Numbers:**  
**CHEMTREC:** 800-424-9300

**General Information:** 302-731-4100  
M-F, 8:30 am—5 pm EST

### NFPA 704 © Hazard Rating

Health—3 Fire—0 Reactivity—1 Special—None

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## 2. Composition and Information on Ingredients

| Ingredients         | CAS Number | Approx. Percent |
|---------------------|------------|-----------------|
| Calcium hydroxide   | 1305-62-0  | 93% Min.        |
| Sodium Hydroxide    | 1310-73-2  | 2.5%            |
| Potassium Hydroxide | 1310-58-3  | 2.5%.           |
| Polyethylene        | 9002-88-4  | 5% Max.         |

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## 3. Hazardous Identification

### EMERGENCY OVERVIEW

**APPEARANCE:** white solid

**IMMEDIATE CONCERNS:** Irritant, can cause burns, may be fatal if swallowed.

**POTENTIAL HEALTH EFFECTS:** Corrosive to eyes (may cause blindness), skin, nose and throat. Continuous inhalation exposure may cause lung damage.

**SYMPTOMS OF EXPOSURE:** Highly caustic. Toxic by ingestion and inhalation. Causes severe burns, destroys tissue on contact; deep ulceration may result. Can damage eyes severely resulting in blindness. Inhalation of dust or fumes is highly corrosive to respiratory tract.

**MEDICAL COND. AFFRAVATED BY EXPOSURE:** Data not available.

**ROUTES OF ENTRY:** Inhalation, ingestion or skin contact.

**CARCINOGENICITY:** The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

## 4. First Aid Measures

Get medical attention for all cases of overexposure.

**INGESTION:** If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration and see a medical doctor immediately.

**EYES:** Immediately flush thoroughly with water for at least 15 minutes.

**SKIN:** Wash thoroughly with soap and water.

**NOTES TO MEDICAL DOCTOR:** This product has high corrosivity. Removal of exposure should be immediate, using copious water flushes and gastric lavage, if necessary. Treatment is otherwise symptomatic and supportive.

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## 5. Fire Fighting Measures

**FLAMMABLE LIMITS:** Not applicable

**GENERAL HAZARD:** None

**EXTINGUISHING MEDIA:** Water spray

**HAZARDOUS COMBUSTION PRODUCTS:** Can react with certain metals (e.g., AL, ZN, MG, CU, etc.) to release explosive hydrogen gas.

**FIRE FIGHTING PROCEDURES:** Wear full protective clothing and self-contained breathing apparatus (SCBA) approved for fire fighting. This is necessary to protect against the hazards of heat, products of combustion and oxygen deficiency. Do not breathe smoke, gases or vapors generated.

**FLASH POINT:** Not applicable

**SENSITIVITY TO STATIC DISCHARGE:** Not applicable

**SENSITIVITY TO IMPACT:** Not applicable

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## 6. Accidental Release Measures

**RELEASE NOTES:** Evacuate the area of all unnecessary personnel. Wear suitable protective equipment listed under exposure / personal protection. Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

Take up and containerize for proper disposal as described under disposal.

Before cleanup measures begin, review the entire MSDS with particular attention to Section 3, Emergency Overview and Potential Health Effects; and Section 8, Recommended Personal Protective Equipment.

Comply with Federal, state and local regulations on reporting releases. Refer to regulatory information for reportable quantity and other regulatory data.

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## 7. HANDLING AND STORAGE

**HANDLING:** Do not get in eyes, on skin or clothing. Avoid breathing dust. Wash thoroughly after handling.

**STORAGE:** Keep container closed. Store in a dry area separate from incompatible materials.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Use local exhaust ventilation to keep airborne concentrations below exposure limits.

### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Safety glasses or goggles

**RESPIRATORY:** When engineering controls are not adequate, wear a NIOSH/MSHA respirator approved for protection against inorganic dusts.

**PROTECTIVE CLOTHING:** Rubber gloves to prevent skin contact.

**WORK HYGIENIC PRACTICES:** Quick-drench eyewash and safety shower should be readily available. Wash thoroughly after handling. Do not take internally.

### COMMENTS: EXPOSURE LIMITS

#### ACGIH—TLV

##### Ingredient:

|                     | TWA |                   | STEL |                   | CL  |                   |
|---------------------|-----|-------------------|------|-------------------|-----|-------------------|
|                     | PPM | MG/M <sup>3</sup> | PPM  | MG/M <sup>3</sup> | PPM | MG/M <sup>3</sup> |
| Calcium hydroxide   |     | 5                 |      |                   |     |                   |
| Sodium Hydroxide    |     |                   |      |                   | 2   |                   |
| Potassium Hydroxide |     |                   |      |                   | 2   |                   |

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

**ODOR:** Odorless

**APPEARANCE:** White solid

**pH: PERCENT VOLATILE:** 0—2%

**VAPOR PRESSURE:** Not applicable

**VAPOR DENSITY:** Not applicable

**BOILING POINT:** Not applicable

**MELTING POINT:** Not applicable

**SOLUBILITY IN WATER:** Soluble

**EVAPORATION RATE:** Not applicable

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## 10. STABILITY AND REACTIVITY

**CONDITIONS TO AVOID:** Exposure to air, contact with moisture may generate sufficient heat to ignite surrounding combustible material.

**STABILITY:** Stable under normal storage and temperature conditions.

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**POLYMERIZATION:** Will not occur  
**HAZARDOUS DECOMPOSITION PRODUCTS:** None  
**INCOMPATIBLE MATERIALS:** Acids, water, metals, chlorinated or nitrated organics.

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## 11. TOXICOLOGICAL INFORMATION

**TOXICITY DATA:** None established  
**TOXICOLOGICAL FINDINGS:** None cited in registry of toxic effects of substances (RTECS)

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## 12. DISPOSAL CONSIDERATIONS

**TREATMENT:** Material does not have an EPA waste number and is not a listed waste, however, consultation with a permitted waste disposal site should be accomplished.

Always contact a permitted waste disposer to assure compliance with all current local, state and federal regulations.

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## 13. TRANSPORT INFORMATION

**DOT SHIPPING NAME:** Corrosive solid, N.O.S. ( Calcium, Potassium and Sodium Hydroxides)

**DOT ID NUMBER:** UN1759

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## 14. REGULATORY INFORMATION

**TSCA INVENTORY:** This product is a mixture. The CAS numbers of all components are listed on the TSCA Inventory.

| <u>Component</u>    | SARA EHS<br>(302) | SARA EHS<br>TPQ (lbs) | CERCLA<br>RQ (lbs) | OSHA<br>Floor list | SARA 313 | Deminimis for<br>SARA 313 |
|---------------------|-------------------|-----------------------|--------------------|--------------------|----------|---------------------------|
| Calcium Hydroxide   |                   |                       |                    | yes                |          |                           |
| Potassium Hydroxide |                   |                       | 1000               | yes                |          |                           |
| Sodium Hydroxide    |                   |                       | 1000               | yes                |          |                           |

## 15. OTHER INFORMATION

**COMMENTS:** None

**NFPA HAZARD RATINGS:**

|                     |             |
|---------------------|-------------|
| <b>HEALTH</b>       | <b>3</b>    |
| <b>FLAMMABILITY</b> | <b>0</b>    |
| <b>REACTIVITY</b>   | <b>1</b>    |
| <b>SPECIAL</b>      | <b>None</b> |

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