Safety Data Sheet
Calcium Hydroxide/Lime SDS

Section 1. PRODUCT AND COMPANY IDENTIFICATION
Product Name: Calcium Hydroxide; Lime
CAS#: 1305-62-0
Synonyms: Hydrated lime; Slaked Lime; Calcium Oxide, hydrated
Chemical Name: Calcium Hydroxide
Chemical Formula: Ca(OH)2

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Section 2. HAZARDS IDENTIFICATION
Emergency Overview
OSHA Hazards: Irritant
GHS Classification: Skin irritation (Category 2); Serious eye damage (Category 1); Specific target organ toxicity - single exposure (Category 3); Acute aquatic toxicity (Category 3).
GHS Label elements, including precautionary statements

Signal word: Danger!

Hazard statement(s)
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H402 Harmful to aquatic life.

Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for at least twenty (20) minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification: Health hazard: 3 Flammability: 0 Physical hazards: 0
NFPA Rating: Health hazard: 3 Fire: 0 Reactivity Hazard: 0
### Potential Health Effects

**Inhalation**: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. May be harmful if absorbed through skin. Causes skin burns. Causes eye burns. May be harmful if swallowed.

### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
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<tr>
<th>CAS Number: 1305-62-0</th>
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<td>Percent by Weight: 100</td>
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### Section 4. FIRST AID MEASURES

**If In Eyes**: Rinse thoroughly with plenty of water for at least twenty (20) minutes and consult a physician. Continue rinsing eyes during transport to hospital if applicable.

**If On Skin**: Wash off with soap and plenty of water.

**If Inhaled**: Move person to fresh air. If not breathing, give artificial respiration.

**If Swallowed**: Never give anything by mouth to an unconscious person. Rinse mouth with water. If irritation persists in any of the above, seek medical attention.

### Section 5. FIREFIGHTING MEASURES

**Conditions of flammability**: Not flammable or combustible.

**Suitable extinguishing media**: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for firefighters**: Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**: Hazardous decomposition products formed under fire conditions. - Calcium oxide.

### Section 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

**Environmental precautions**: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up**: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Section 7. HANDLING AND STORAGE

**Precautions for safe handling**: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

**Conditions for safe storage**: Keep container tightly closed in a dry and well-ventilated place. Air and moisture sensitive. Keep in a dry place.

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protective equipment**:

- **Respiratory protection**: Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls.
- **Hand protection**: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.
- **Eye protection**: Wear face shield and/or safety glasses.
- **Hygiene measures**: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Section 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**: Form powder, Color: beige

**Safety data**

- **pH**: 12.4 - 12.6 at 20 °C (68 °F)
- **Melting point/freezing point**: >= 450 °C (>= 842 °F)
- **Boiling point no data available**
- **Flash point not applicable**
- **Ignition temperature no data available**
- **Auto-ignition temperature no data available**
- **Lower explosion limit no data available**
- **Upper explosion limit no data available**
Vapour pressure: no data available
Density: 2.24 g/cm³ at 25 °C (77 °F)
Partition coefficient: n-octanol/water: no data available
Relative vapor density: no data available
Odor: no data available
Odor Threshold: no data available
Evaporation rate: no data available

Section 10. STABILITY AND REACTIVITY
Chemical stability: Stable under recommended storage conditions.
Possibility of hazardous reactions: No data available
Conditions to avoid: No data available
Materials to avoid: Strong acids
Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. - Calcium oxide. Other decomposition products - no data available.

Section 11. TOXICOLOGICAL INFORMATION
Acute toxicity
Oral LD₅₀ - LD50 Oral - rat - 7,340 mg/kg
Inhalation LC₅₀ - no data available
Dermal LD₅₀ - no data available
Other information on acute toxicity - no data available
Skin corrosion/irritation - Skin - rabbit - Irritating to skin.
Serious eye damage/eye irritation - Eyes - rabbit - Severe eye irritation
Respiratory or skin sensitization - no data available
Germ cell mutagenicity - Genotoxicity in vitro - rat - Ascites tumor Cytogenetic analysis
Carcinogenicity
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
Reproductive toxicity - no data available
Potential health effects: Eyes: Causes eye burns. Skin: May be harmful if absorbed through skin. Causes skin burns. Inhalation: May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed.

Section 12. ECOLOGICAL INFORMATION
Toxicity - Toxicity to fish LC₅₀ - Clarias gariepinus - 33.884 mg/l - 96 h
Persistence and degradability - no data available
Bioaccumulative potential - no data available
Mobility in soil - no data available
PBT and vPvB assessment - no data available
Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

Section 13. DISPOSAL CONSIDERATIONS
Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14. TRANSPORT INFORMATION
DOT (US): Not dangerous goods; IMDG: Not dangerous goods; IATA: Not dangerous goods.

Section 15. REGULATORY INFORMATION
OSHA Hazards: Irritant.

Section 16. OTHER INFORMATION
References: 2014 - The Sigma-Aldrich Library of Chemical Safety Data
Last Updated: 04/2017
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