HYDRATED LIME

SAFETY DATA SHEET

REV. DATE: 06-24-2014 REV 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Company Identification:
Agri Empresa LLC
6001 W. Industrial Ave
Midland, TX 79706
432-694-1994

24 Hour Emergency Telephone: Call Chemtrec 1-703-527-3887

Product Synonyms: Lime, Calcium hydroxide

Product Use: pH Modifier.

2. HAZARD IDENTIFICATION

Precautionary Statements: If in contact with skin flush with a mild soap and water. Consult with a physician if irritation persists. If contact with eye flush with water lifting upper and lower lids for at least 15 minutes. Contact a physician immediately. In inhaled move person to fresh air and contact a physician immediately. Repeated inhalation exposure may lead to respiratory cancer. This material reacts violently with water, producing heat which may ignite combustibles.

<table>
<thead>
<tr>
<th>SIGNAL WORD</th>
<th>HAZARD</th>
<th>HAZARD CODE</th>
<th>CATEGORY</th>
<th>HEALTH HAZARD STATEMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>DANGER</td>
<td>Eye</td>
<td>H320, H318</td>
<td>2B, 1</td>
<td>Causes eye irritation, or serious eye damage with burns</td>
</tr>
<tr>
<td></td>
<td>Skin</td>
<td>H315</td>
<td>2</td>
<td>May cause skin irritation</td>
</tr>
<tr>
<td></td>
<td>Inhalation</td>
<td>H335</td>
<td>3</td>
<td>Causes respiratory irritation</td>
</tr>
<tr>
<td></td>
<td>Ingestion</td>
<td></td>
<td></td>
<td>No potential risk</td>
</tr>
<tr>
<td></td>
<td>Target Organ</td>
<td>H350</td>
<td>1A, 1B</td>
<td>May cause respiratory cancer through inhalation</td>
</tr>
<tr>
<td></td>
<td>Fire</td>
<td>H270</td>
<td>Div. 1.4</td>
<td>Violently reacts with water producing heat which can ignite combustibles.</td>
</tr>
</tbody>
</table>

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS No.:</th>
<th>EINECS Nr:</th>
<th>Classification:</th>
<th>Content:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Hydroxide</td>
<td>1305-62-0</td>
<td>215-137-3</td>
<td>Xi R-36/38</td>
<td>100%</td>
</tr>
</tbody>
</table>

The full Text for all R-phrases are displayed in Section 15.
4. FIRST AID MEASURES

First Aid-Eyes: Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

First Aid-Skin: Promptly wash contaminated skin and soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention if irritation persists after washing.

First Aid-Ingestion: DO NOT INDUCE VOMITING! Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Provide rest, warmth, and fresh air. Get medical attention immediately!

First Aid-Inhalation: Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. For breathing difficulties oxygen may be necessary. Get medical attention immediately.

5. FIRE FIGHTING MEASURES

Fire Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedure: Keep run-off water out of sewers and water sources. Dike for water control.

Hazardous Combustion Products: Not known.

6. ACCIDENTAL RELEASE MEASURES

Spill Clean-up Methods: Stop leak if possible without risk. Ventilate well. Collect and reclaim or dispose in sealed containers in licensed waste. Avoid generation and spreading or dust. Flush with plenty of water to clean spillage area. Do not let washing down water contaminate ponds or waterways. In handling of spillage, please also consult the section detailing protective measures.

7. HANDLING AND STORAGE

Usage Precautions: Avoid spilling, skin, and eye contact. Avoid handling which leads to dust formation.

Storage Precautions: Keep in cool, dry, ventilated storage and closed containers. Keep in original container. Store isolated from oxidizing materials.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient Name: Calcium Hydroxide  
CAS No: 1305-62-0  
STD: OES  
LT EXP 8 Hrs: 5 mg/m3  
ST EXP 15 Min:  

Ventilation: Provide sufficient ventilation for operations causing dust formation.

Respirators: D, Dust mask/respirator. Dust filter P2 (for fine dust).

Protective Gloves: Use suitable protective gloves if risk of skin contact. Use protective gloves made of: Impermeable material. Rubber, neoprene, or PVC.

Eye Protection: Wear dust resistant safety goggles where there is danger of eye contact. Use face shield in case of splash risk.

Other Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact. Provide eyewash station. Wear rubber apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Solid (Powder.)</td>
</tr>
<tr>
<td>Color:</td>
<td>White to Off-White.</td>
</tr>
<tr>
<td>Odor:</td>
<td>Odorless.</td>
</tr>
<tr>
<td>pH:</td>
<td>12.4</td>
</tr>
<tr>
<td>Specific Gravity:</td>
<td>2.34</td>
</tr>
<tr>
<td>Bulk Density:</td>
<td>2.24 g/cm3</td>
</tr>
<tr>
<td>Freezing Point (F):</td>
<td>1076</td>
</tr>
<tr>
<td>Freezing Point(C):</td>
<td>580</td>
</tr>
<tr>
<td>Vapor Density (Air-1):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Percent Volatiles:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate=1):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Solubility in Water (g/100ml):</td>
<td>Slightly soluble in water.</td>
</tr>
<tr>
<td>Solubility in Solvents:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>VOCs (lbs/gallon):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity, Dynamic (centipoise):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity, Kinematic (centistokes):</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Partition Coefficient/n-Octanol/Water:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Molecular Weight (g/mole):</td>
<td>74</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY


Conditions to Avoid: Avoid contact with acids. Creation of dust clouds.

11. TOXICOLOGICAL INFORMATION

**Toxic Dose – LD50:** 7340 mg/kg (oral rat)

**Inhalation:** May cause irritation to the respiratory system. Symptoms may include sore throat, coughing, shortness of breath and difficulty breathing.

**Ingestion:** May cause burns in mucous membranes, throat, esophagus and stomach.

**Skin:** Irritating to skin. Prolonged or repeated exposure may cause chronic eye irritation. Extreme irritation of eyes and mucous membranes, including burning and tearing.

**Eyes:** Irritating to eyes. Repeated exposure may cause chronic eye irritation. Extreme irritation of eyes and mucous membranes, including burning and tearing.

12. ECOLOGICAL INFORMATION

**Ecological Information:** Contact M-I’s Environmental Affairs Department for ecological information. OSPAR have defined this chemical as PLONOR.

13. DISPOSAL CONSIDERATIONS

**Disposal Method:** Recover and reclaim or recycle, if practical. Dispose of in accordance with Local Authority requirements. This material and its container must be disposed of as hazardous waste.

14. TRANSPORT INFORMATION

**Road Transportation:** Not Regulated

**Rail Transportation:** Not Regulated

**Sea Transportation:** Not Regulated

**Air Transportation:** Not Regulated
15. REGULATORY INFORMATION

Risk Phrases: R-36/38 Irritating to eyes and skin.

Safety Phrases:
S-22 Do not breathe dust.
S-24/25 Avoid contact with skin and eyes.
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S-36/27/29 Wear suitable protective clothing, gloves and eye/face protection.
S-60 This material and its container must be disposed of as hazardous waste.

Statutory Instruments: Control of Substances Hazardous to Health.

Guidance Notes: Isocyanates toxic hazards and precautions EH16.

16. OTHER INFORMATION

User Notes: HMIS
Health: 2
Flammability: 0
Physical Hazard: 0


R-Phrases: R-36/38 Irritating to eyes and skin.

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**END**