

# Material Safety Data Sheet

| I. GENERAL INFORMATION                           |  |
|--|--|
| <u>TRADE NAME</u><br>Kem LAC <sup>®</sup> HD Dry | <u>CHEMICAL FAMILY</u><br>Silage Inoculant         |
| <u>PROPER DOT SHIPPING NAME</u><br>NONE          | <u>DOT HAZARD CLASSIFICATION</u><br>NONE           |
| <u>MANUFACTURER</u><br>Kemin Industries, Inc.    | <u>MANUFACTURER PHONE NUMBER</u><br>(515) 559-5100 |
| <u>ADDRESS</u><br>2100 Maury Street              | <u>CITY/STATE/ZIP</u><br>Des Moines, Iowa 50317    |

| II. INGREDIENTS           |         |                       |
|---------------------------|---------|-----------------------|
| PRINCIPAL COMPONENTS      | PERCENT | THRESHOLD LIMIT VALUE |
| Maltodextrin              | N/A     | N/A                   |
| Lactobacillus Plantarum   | N/A     | N/A                   |
| Lactobacillus Acidophilus | N/A     | N/A                   |
| Lactobacillus Bulgaricus  | N/A     | N/A                   |
| Sodium Silico Aluminate   | N/A     | N/A                   |
| Sodium Thiosulfate        | N/A     | N/A                   |
| FD&C Blue No. 1           | N/A     | N/A                   |

| III. PHYSICAL DATA   |  |
|--|--|
| <u>APPEARANCE &amp; ODOR:</u> Off-white to light orange with a bland odor. |  |
| <u>BOILING POINT:</u> N/A  | <u>SOLUBILITY IN WATER:</u> N/A                    |
| <u>VAPOR PRESSURE:</u> N/A   | <u>BULK DENSITY:</u> 0.55 – 0.65 g/cm <sup>3</sup> |
| <u>VAPOR DENSITY (Air = 1):</u> N/A  | <u>RESIDUE:</u> Less than 5% (20 mesh screen)      |
| <u>EVAPORATION RATE ( =1):</u> N/A   | <u>pH:</u> N/A                                     |

| IV. FIRE & EXPLOSION HAZARD DATA                                    |             |             |
|---|-------------|-------------|
| <u>FLASH POINT (TEST METHOD):</u> ( ° F) Tag Closed Cup ASTM D56-79 |             |             |
| <u>FLAMMABLE LIMITS:</u>  | <u>LEL:</u> | <u>UEL:</u> |
| <u>EXTINGUISHING MEDIA:</u>   |             |             |
| <u>SPECIAL FIRE FIGHTING PROCEDURES:</u> None                       |             |             |
| <u>UNUSUAL FIRE &amp; EXPLOSION HAZARDS:</u> None                   |             |             |

| V. HEALTH HAZARD DATA       |   |
|-----------------------------|---|
| <u>EYE CONTACT:</u>         | Flush eyes with water at least 15 minutes. Consult a physician.   |
| <u>SKIN CONTACT:</u>        | Wash with water.  |
| <u>INHALATION:</u>          | Handle in well ventilated area. Remove to fresh air.  |
| <u>INGESTION:</u>           | Consult a physician.  |
| <u>EMERGENCY FIRST AID:</u> | Whenever first aid is required, it should be given immediately. Prompt treatment may greatly decrease the severity of the effect. |

| VI. REACTIVITY DATA                      |   |                             |
|--|---|-----------------------------|
| <u>STABILITY:</u>                        | Unstable..... <input type="checkbox"/><br>Stable..... <input checked="" type="checkbox"/>     | <u>CONDITIONS TO AVOID:</u> |
| <u>INCOMPATIBILITY:</u>                  |   | <u>MATERIALS TO AVOID:</u>  |
| <u>HAZARDOUS POLYMERIZATION:</u>         | May Occur .... <input type="checkbox"/><br>Not Occur..... <input checked="" type="checkbox"/> | <u>CONDITIONS TO AVOID:</u> |
| <u>HAZARDOUS DECOMPOSITION PRODUCTS:</u> |   |                             |

**VII: ENVIRONMENTAL PROTECTION PROCEDURES**

**SPILL RESPONSE:** Adjust the pH prior to appropriate disposal.

**WASTE DISPOSAL:** Dispose in accordance with federal, state, and local regulations.

**VIII: SPECIAL PROTECTION INFORMATION**

EYE PROTECTION:

Goggles recommended.

SKIN PROTECTION:

Avoid prolonged exposure. Rubber gloves recommended.

RESPIRATORY INFORMATION:

Use of a NIOSH approved respirator is recommended if exposure may, or does exceed occupational exposure limits.

VENTILATION RECOMMENDED

Local exhaust recommended.

OTHER PROTECTION:

**IX. SPECIAL PRECAUTIONS**

**OTHER PRECAUTIONS:** For best results, use this product by the "Best Used By" date found on the lid. Store in a cool, dry place for maximum stability. Keep container closed when not in use. Contaminated mixing or applicator containers may kill the Lactobacillus organisms.

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SUPERSEDES:

05/05/04