

Material Safety Data Sheet

Occupational Safety and Health Administration

SECTION I – Identification of substance

- **Trade Name:** Hydrated Lime
- **Manufacturer:**
Mercer Lime and Stone Company
560 Branchton Road
Slippery Rock, PA 16057
Emergency Telephone Number: 724-794-5300
Telephone Number for Information: 724-794-5300
Date Prepared: 04/01/2004
Date Revised: 01/04/2010

Distributed By:
SAL Chemical
3036 Birch Drive
Weirton, WV 26062
304-748-8200

SECTION II – Hazardous Ingredients/Identity Information

- **Chemical Identity; Common Names:** Calcium hydroxide; Ca(OH)₂; hydrated lime; hydrate
- **Identification Number(s):** CAS #1305-62-0
 - EINECS #215-137-3
- **OSHA PEL:** 5 mg/m³
- **ACGIH TLV:** 5 mg/m³
- **Information pertaining to particular dangers for man and environment:** R 34 Causes burns.

SECTION III – Physical/Chemical Properties

- **Form:** Powder
- **Color:** White
- **Odor:** Odorless
- **Change in condition**
- **Melting point:** 580°C (-H₂O)
 - **Boiling point:** Not determined
 - **Specific gravity:** at 20°C 2.24 g/cm³
 - **Vapor pressure:** Not determined
 - **Ignition temperature:** Not determined
 - **Decomposition temperature:** Not determined
 - **Solubility in / Miscibility with water:** at 100°C 0.77g/l

SECTION IV – Fire and Explosion Hazard Data

- **Flash Point (Method used):** Not applicable
- **Flammable limits:** Product is not flammable
- **Danger of Explosion:** Product does not present an explosion hazard
- **LEL:** Not determined
- **UEL:** Not determined
- **Extinguishing media:** Product is not flammable. Use fire fighting measures that suit the surrounding fire.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
 - **In case of fire the following can be released:** Metal Oxide
- **Unusual fire and explosion hazards:** Exothermic reaction with water

SECTION V – Reactivity Data

- **Stability:** Unstable
 - **Conditions to avoid:** No dangerous reactions known. Decomposition will not occur if used and stored according to specifications.
- **Incompatibility (Materials to avoid):** Acids
- **Hazardous decomposition or byproducts:** Metal Oxide
- **Hazardous polymerization:** Will not occur
 - **Conditions to avoid:** Not applicable

SECTION VI – Health Hazard Data

- **Routes of Entry: Inhalation?** Yes **Skin?** Yes **Ingestion?** Yes
- **Health Hazards:**
 - **Acute:** Primary irritant effect
 - **Toxicity:**
 - **LD/Lc50 values that are relevant for classification:**
 - Oral: LD50: 7033 mg/kg (mus)
 - LD50: 7340 mg/kg (rat)
 - Irritation of skin: severe: 10 mg (rbt)
 - **Skin:** Irritant to skin and mucous membranes.
 - **Eyes:** Strong irritating effect.
 - **Subacute to chronic:** Other than potential irritation (see above), no information on illness or injury from acute or chronic exposure to this product is available.
 - **Sensitization:** No sensitizing effects known.
 - **Additional toxicological information:** Swallowing will lead to a strong burning effect on mouth and throat and to the danger of perforation of esophagus and stomach. To the best of our knowledge, the acute and chronic toxicity of this substance is not fully known. No classification data on carcinogenic properties if this material is available from EPA, IARC, NTP, OSHA, or ACGH.
- **Signs and symptoms of exposure:** Irritation, burning or reddening of skin; irritation of eyes or mucous membranes with contact.
- **Medical conditions generally aggravated by exposure:** Respiratory conditions if inhaled; possible aggravation of skin conditions.
- **Emergency first aid:**
 - **General information:** Immediately remove any clothing soiled by the product
 - **After inhalation:** Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice.
 - **After skin contact:** Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice.
 - **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
 - **After swallowing:** Seek immediate medical advice.

SECTION VII – Precautions for Safe Handling and Use

- **Accidental Release Measures**
 - **Person-related safety measures:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.
 - **Measures for environmental protection:** Do not allow material to be released to the environment without proper governmental permits.
 - **Measures for cleaning/collecting:** Use neutralizing agent. Consult state, local, or national regulations for proper disposal. Ensure adequate ventilation.
- **Precautions to be taken in handling**
 - Keep container tightly sealed
 - Store in cool dry place in tightly closed containers
 - Ensure good ventilation in the workplace
- **Precautions to be taken in storage**
 - No special storeroom or receptacle requirements
 - Storage in one common storage facility: Do not store together with acids.
 - Other storage information: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Restrict access to technical experts or their assistants.

SECTION VIII – Control Measures

- **Respiratory protection:** Use NIOSH/MSHA approved dust respirator when high concentrations are present.
- **Ventilation:**
 - **Local:** Use when high concentrations are present or if TLV is exceeded
 - **General:** Use when high concentrations are present or if TLV is exceeded
- **Special:** The usual precautionary measures for handling chemicals should be followed.
- **Protective gloves:** Impervious gloves
- **Eye protection:** Safety glasses. Tightly sealed goggles. Full face protection
- **Other protective clothing or equipment:** Protective work clothing
- **Work/hygienic practices:**
 - Keep away from foodstuffs, beverages, and feed
 - Remove all soiled and contaminated clothing immediately
 - Wash hands before breaks and at the end of work
 - Avoid contact with the eyes and skin.

SECTION IX – Transport Information

- **TDG:** Not listed for ground transportation
- **HMR:** Not listed for ground transportation

TDG: Transportation of Dangerous Goods Regulation (CAN)

HMR: Hazardous Materials Regulation (USA)

SECTION X – Regulations

- **Product related hazard information:**
 - **Risk phrases:** 34 Causes burns
 - **Safety phrases:** 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
36, 37, 39 Wear suitable protective clothing, gloves and eye/face protection
45 In case of accident or if you feel unwell, seek medical advice immediately
- **National Regulations:** All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.
- **Information about limitation of use:** For use only by technically qualified individuals.
- **Symbol:**
 - WHMIS Rating: D2A, E
 - NEPA Rating: Health – 2 Specific Hazard – ALK Flash Points – 0 Reactivity – 1
 - HMIS Rating: Health – 2 Specific Hazard – ALK Flash Points – 0 Reactivity – 1

SECTION XI – Other information

Customers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any sue of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.