

Material Safety Data Sheet
 Used for compliance with OSHA HazComm Standard, 29 CFR 1910.1200 and comparable MSHA regulations. Page 1 of 2 pages

MATERIAL IDENTITY: Snowbright Hydrate/ Hydrated Lime/ Slaked Lime/ Calcium Hydroxide Ca(OH)₂

SECTION I CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer: PETE LIEN & SONS, INC. PO Box 440, Rapid City, SD 57709-0440 Date Reviewed: 1 May 1999 Material Identity: Calcium Hydroxide	Emergency Phone: 800-874-9632	Information Phone: 605-342-7224
	Prepared by: Safety & Environmental Office CAS Number: 001305-62-0	

SECTION II Composition and Information on Ingredients/Identity Information

Hazardous components Ca(OH)₂ (90-100%) Time Weighted Average (TWA) (mg/m ³) Primary Hazard: Toxicity, Skin irritation Direct contact with dust, pebbles or slurry (milk of lime) can cause drying, irritation and burns of skin and mucus membranes of eyes, nose, mouth, and open cuts	OSHA PEL N/A CEILING N/A Total 5 (ACGIH)(no asbestos, <1% cryst. silica)
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SECTION III Hazards Identification

Routes of entry (exposure) Health Hazards: Acute Toxicity LD50: 7340 mg/kg Health Hazards: Chronic Carcinogenicity? NTP? IARC Monographs? OSHA Regulated? Signs and symptoms of exposure Medical conditions generally aggravated by exposure Precautionary label statements	<input checked="" type="checkbox"/> Inhalation <input checked="" type="checkbox"/> Skin <input checked="" type="checkbox"/> Ingestion Burns, irritation, breathing difficulty Drying of skin, membranes None NO Difficulty breathing, burning, skin rash Asthma, sensitive skin, open wounds Warning: Harmful if swallowed, causes irritation, avoid contact with eyes, skin, clothing. Keep in tightly closed container. Wash thoroughly after handling.
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SECTION IV First Aid Measures

Emergency and first aid procedures	Wash thoroughly with water or vinegar. Alternate: flush skin with water; eyes for at least 15 minutes.
Other actions to be taken	Clean hands and face, especially around mouth and nose, apply skin cream or burn ointment to affected areas

SECTION V Fire and Explosion Fighting Measures

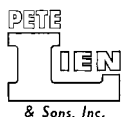
Flash point None Boiling point: NA Melting point: 1076F Extinguishing media As appropriate for surrounding fire Special firefighting procedures: Slaked is incombustible but decomposes at high temperatures producing steam which may cause particles of hydrate or unslaked (quick) lime to be thrown off, causing an explosion hazard and possibly igniting combustible materials with relatively low flashpoints, such as paper, rags, or wood.	NFPA 704M Rating: 1-0-1 Flammable limits Not applicable LEL/UEL Not applicable Unusual fire/explosion hazards:
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SECTION VI Accidental Release

Actions in case of spill or release	Normal cleanup procedures for dry materials. Avoid contact with strong acids. In case contact is unavoidable, wear full protective clothing. Self-contained breathing apparatus recommended for powder or when strong acids are present. After removal, flush spill area with water. If large amounts of dust remain, neutralize with weak acid solution. (Citric acid suggested.)
Waste disposal method	See Section XIII.

SECTION VII Precautions for Safe Handling, Storage and Use

Precautions to take in handling and storing	Processing and/or moving of lime can generate dust. Dust may restrict visibility and create safety/health hazards. Workers should wear dust mask or respirator and goggles. Avoid moisture and heat.
Other precautions	Hydrate can vary in density. Take care in handling.



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SECTION VIII Exposure Control and Personal Protection Measures

Respiratory Protection **NIOSH/MSHA approved dust respirators for in all conditions. Use self-contained breathing apparatus above 2 ppm.**

Ventilation Local exhaust **Encouraged**
Mechanical **As required to meet TLV requirements.**
Special **Not required**
Other **Recommend venting to dust collector (baghouse, cyclone, etc.)**

Protective gloves **Rubber** Eye Protection **Dust goggles under all conditions**

Baker Saf-T-Data™ System **Health 1, Flammability 0, Reactivity 1, Contact 2 ORANGE**

Other protective clothing or equipment **None required: recommend hard-hat, non-absorbing garment (labcoat, coveralls, etc.)**

Work/Hygenic practices **General cleanliness, good housekeeping**

SECTION IX Physical/Chemical Characteristics

Boiling Point **Not applicable** Specific Gravity: **2.24 (water=1) MW 74.09**

Vapor Pressure **Not applicable** Melting point: **1076F (580C)**

Vapor Density (Air=1) **2.5** Evaporation rate **Not applicable**

Solubility in water **Negligible in pure water** Other characteristics: **N/A**

Appearance Odor **No noticeable odor**

White, soft solid or crystals Miscellaneous: **Friable material**

SECTION X Stability and Reactivity

Stability Unstable **Under some conditions** Conditions to avoid **Contact with strong acids, high temperatures**

Incompatibility (materials to avoid) **Contact with strong acids**

Hazardous decomposition or byproducts **Calcium oxide and steam (water vapor)**

Hazardous polymerization **Will not occur**

SECTION XI Toxicological Information

Testing conducted by **NIOSH, ACGIH**

SECTION XII Ecological Information

Material stored in open can contribute to airborne dust and to suspended solids in surface water, impacting on environmental quality of air and water in vicinity until trapped. Material can alter acidity/alkalinity of water and soil.

SECTION XIII Disposal considerations

Waste disposal method **As nonputrescable, inorganic material: not required to treat as municipal solid waste or hazardous waste but should be neutralized if disposed of in high-alkali or strong acid environment. Comply with all applicable local, state and federal regulations.**

SECTION XIV Transport Information

This material is not a regulated material, DOT/IMO name/description: **Chemicals, NOS**, no hazard class
Use only tightly-closed container in transport (at minimum. Do not ship in open containers or vehicles.

SECTION XV Regulatory Information NIOSH/RTECS No. EW2800000

Regulatory status of material **This material is not a regulated material. SARA Title III reporting (Tier II/Form R) not required**

SECTION XVI Other Information PRODUCT CODES: 1372, 5143, 5033, 1374

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