



MSDS – Material Safety Data sheet

Lime Clean- Wood and Deck Cleaner

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I. Product and Company Information

Supplier	Earthpaint Inc PO BOX 19129 Asheville, NC 28805	Information:	828-258-2580
	Chemical Family Alkaline earth hydroxide mixture	Reviewed on 10-13-2011	
	Material Use Wood Cleaner for Decks, Logs and Wood Siding.		

II. Composition and Information on Ingredients

Component	CAS#	Exposure Limits	% by weight
Calcium Hydroxide	1305-62-0	OSHA PEL: 5mg/m3 ACGH TLV: 5mg/m3	>20.00%
Magnesium Oxide	1309-48-4	OSHA PEL: 10 mg/m3 ACGIH TLV: 10 mg/m3	< 00.8 %
Calcium Oxide	1305-78-8	OSHA PEL: 5 mg/m3 ACGH TLV: 2mg/m3	<00.4%
Crystalline Silica (naturally occurring sand)	14808-60-7	OSHA PEL: 10 mg/m3 (% SiO2 resp +2) ACGIH TLV: 0.025 mg/m3	N/A Trace amounts sometimes found in Earthen materials.

III. Hazards Identification

Emergency Overview: Lime Clean is an odorless white or greyish-white granular paste. Contact can cause irritation to eyes, skin, respiratory system, and gastrointestinal tract. The product is liquid not dry, thus silica exposure is only an issue if spraying product. Wear skin and eye protection outlined in Sect. VIII.	
Eyes: Danger:	Corrosive. Causes irreversible eye damage with prolonged contact. (rabbits 24 hr exposure -severe irritation)
Skin: Warning:	Causes severe irritation of mucous and skin, removes oils. Skin contact of 5-10 minutes does not typically cause severe irritation but open cuts can be severely irritated.
Ingestion:	This product can cause severe irritation or burning of gastro-intestinal tract if swallowed
Inhalation: (Not expected unless spraying)	This product can cause severe irritation of the respiratory system. Long-term exposure may cause permanent damage. Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or crystobalite. Inhalation of silica can cause a chronic lung disorder, silicosis.
Medical Conditions Aggravated by Exposure: Contact may aggravate disorders of eyes, skin, gastrointestinal tract, and respiratory system.	
Potential Environmental Effects: Material is alkaline. Releasing undiluted into water or soil will cause an increase in its pH. Dilute in soil with plenty of water. Product will nuetralize naturally and turn into calcium carbonate (marble dust) as it dries. Use white distilled vinegar as a nuetralizer if needed.	

IV. First Aid Measures

Eyes:	Immediately flush eyes with large amounts of water for at least 15 minutes. Pull back the eyelid to make sure all the lime has been washed out.
Skin:	Flush exposed area with large amounts of water. Seek medical attention immediately.
Inhalation:	Remove to fresh air. Seek medical attention if necessary. If breathing has stopped, give artificial respiration.
Ingestion:	Give large quantities of water or fruit juice. Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth if victim is rapidly losing consciousness or is unconscious or convulsing.
Note to Physicians: Provide general supportive measures and treat symptomatically.	



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V. Fire Fighting Measures	
Fire Hazards:	Lime Clean is not combustible or flammable. Is not an explosion hazard
Hazardous Combustion Products:	None Identified.
Extinguishing Media:	Use dry chemical fire extinguisher or water
Fire Fighting Instructions:	Keep personnel removed from and upwind of fire. Wear full fire-fighting turn-out gear(full Bunker gear), and respiratory protection (SCBA)

VI. Accidental Release Measures	
Spill/Leak Procedures:	Use proper protective equipment. Lime Clean is a white paste.
Small Spills:	Wash area with water. Neutralize with dilute vinegar solution.
Large Spills:	Use wet methods to collect spilled materials. Evacuate area down wind of clean-up operations to avoid dust exposure if dried. Store spilled materials in dry, sealed plastic or metal containers.
Containment:	For large spills, as much as possible avoid the generation of dusts. Do not release into sewers or waterways.
Cleanup:	Residual amounts can be flushed with large amounts of water. Equipment can be decontaminated by washing with either a mild vinegar and water solution, or detergent and water solution.

VII. Handling and Storage	
Handling:	Keep in tightly closed containers. Protect from physical damage. Avoid direct contact with material.
Storage:	Store in a cool, dry and well ventilated location. Do not store near incompatible materials. Keep away from moisture. Do not store or ship in aluminum containers.

VIII. Exposure controls/Personal Protection Equipment	
Personal Protective Equipment (PPE)	Wear clean, rubber gloves, full length pants over boots, long sleeved shirt buttoned at the neck, head protection and approved eye protection selected for the working conditions.
Gloves	Gauntlets cuff style rubber gloves
Respiratory	NIOSH approved when spraying or near mist.
Eyes	Tight fitting goggles/glasses with side shield.
Footwear	Resistant to caustics
Clothing	Fully covering skin

IX. Physical and chemical properties			
Physical State:	Appearance:	Odor:	Specific Gravity:
Liquid	White liquid paste substance	No odor or slightly amine	1.4795
Boiling Point:	Vapor Pressure:	pH (25° C):	Density (kg/m3):
N/A	N/A	12.45	400 - 700
Melting Point:	Vapor Density:	Solubility in Water:	Freezing Point:
N/A	N/A	Soluble in Water	32F



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X. Stability and Reactivity	
Stability:	Chemically stable, but reacts slowly with carbon dioxide to form calcium carbonate.
Incompatibility/Conditions to avoid:	Lime Clean should not be mixed or stored with the following materials, due to the potential for violent reaction and release of heat. Acids, Reactive Fluorinated Compounds, Reactive Brominated Compounds, Reactive Powdered Metals, Organic Acid Anhydrides, Nitro-Organic Compounds, Reactive Phosphorous Compounds.
Hazardous Decomposition Products:	Hydrated lime will decompose at 540 C to form calcium Oxide and water
Hazardous Polymerization:	None

XI. Toxicological Information	
No LD50/LC50 have been identified for this products components. Hydrated Lime is not listed by MSHA, OSHA, or IARC as a carcinogen, but this product may contain crystalline silica, which has been classified by IARC as (Group I) carcinogenic to humans when inhaled in the form of quartz or cristobalite. This type of exposure is not expected for liquid useage and is limited to trace amounts of naturally occuring sand that is typically associated with earthen materials such as lime.	

XII. Ecological Information	
Ecotoxicity:	Material is not harmful to soil when rinsed with water into the ground. Undiluted product is harmful to aquatic organisms and systems. Product is a stay in place paste. Nuetralize with vinegar when used near waterways / aquatic life and catch material with tarps when rinsed.
Environmental Fate:	This material shows no bioaccumulation or food chain toxicity potential.

XIII. Disposal Considerations:	
Dispose of in accordance with all applicable federal, state, and local environmental regulations. If this product as supplied becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation Act	

XIV. Transportation Information	
Lime Clean is not classified as a hazardous material by DOT when transported	

