

Material Safety Data Sheet (MSDS)
(OSHA 29 CFR 1910.1200)

Section 1 - Name and Product

Date Prepared: 01/11/10

Product: **QUICKLIME PLUS**

Description: Quicklime with Portland Cement

Manufacturer: GRIFFIN MATERIALS
7020 KOLL CENTER PARKWAY, suite 142
PLEASANTON, CA 94566

Emergency Telephone Number: 925-862-2240
Telephone for information: 925-862-2260

Section 2 - Chemical Composition

<u>Quicklime Plus</u>		<u>CAS No.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Calcium Oxide	CaO	1305-78-8	5 mg / m ³	2 mg / m ³
Silicon Dioxide	SiO ₂	14808-60-7	0.1 mg / m ³	0.1 mg / m ³
Aluminum Oxide	Al ₂ O ₃	1344-28-1	10 mg/ m ³	-----

Quicklime Plus may also contain minor amounts of K₂SO₄, CaCO₃. Trace amounts of heavy metals and other Portland Cement minerals may also be present.

Section 3 - Physical and Chemical Characteristics

Boiling point: 2850 c Melting point: 2570 c
Specific gravity: 1.5 - 3.0 pH = 12
Solubility in water: Reactive with water to form Ca (OH) ₂ with large amounts of heat.
Appearance: Tan to gray with white particles with no odor.

Section 4 - Fire and Explosion hazard Data

Quicklime Plus is not combustible and not explosive.
Will react with water to produce heat and possibly steam.
Flood with excess amounts of water to remove heat.

Section 5 - Reactivity Data

Stability: Chemically stable under normal conditions of use and storage: will not decompose into hazardous by-products and will not polymerize.
Conditions to avoid: As a strong alkali, Quicklime Plus will react strongly with acids to give off heat and potentially harmful vapors. Forms calcium hydroxide when dissolved in water which reacts violently with maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus.

Section 6 - Health Hazard Data

The dust in this product is classified as nuisance dusts by OSHA, MSHA and ACGIH. This product may contain trace amount of crystalline silica, a chemical known to the State of California to cause cancer. Exposure to Quicklime Plus can cause alkaline irritation to the skin, eyes and mucous membranes.

California Proposition 65: Silica is on the Governor's list. Components used in this product may contain trace amounts of inherent naturally occurring elements (such as, but not limited to arsenic, cadmium)

Ingestion: Do not take internally. Ingestion may result in nausea. If ingested, dilute by drinking large amounts of water. Do not induce vomiting. Get prompt medical attention.

Skin Exposure: Wet or dry Quicklime Plus may result in irritation or burns. Wash affected areas with large amounts of water. Launder contaminated clothing before reuse.

Eye Exposure: Eye exposure may result in irritation. Immediately rinse, including under eyelids, with running water for 15 minutes. Get prompt medical attention.

Inhalation: Inhalation of may result in irritation. Get prompt medical attention.

Section 7 - Precautions for safe handling and use

Keep Quicklime Plus away from acids. Store in a dry place.

In case of spill: Clean up using dry methods that do not disperse dust into the air.

Emergency procedures are not required.

Waste management and disposal: Reuse if possible. Treat as common waste for disposal or return to container for later use if products are not contaminated or wet. Carefully add 20 parts of water to 1 part Quicklime Plus to neutralize and flush to sewer.

Section 8 - Personal Protection Information

Respiratory protection and ventilation: Avoid breathing dust. In dusty (confined) environments use OSHA, MSHA or NIOSH approved respirator and tight fitting goggles. Dust masks meeting the NIOSH N95 rating are sufficient, but not required, for casual exposure. (42 CFR 84)

Skin Protection: Avoid contact with skin. Use gloves, boots and clothing to protect the skin from contact. Wash with soap and water following exposure.

Eye Protection: Use safety glasses or face shields when working with Quicklime Plus.

Section 9 - Special Precautions

Quicklime Plus powder on the skin can be activated with excessive sweat. Flush with large amounts of water.

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