



Soil Conditioner

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NFPA Ratings

Material Safety Data Sheet

Section 1. PRODUCT INFORMATION

PRODUCT NAME: **Soil Conditioner**
CHEMICAL DESCRIPTION: Alkaline Mixture
CHEMICAL NAME: Proprietary Formulation

Section 2. INFORMATION ON INGREDIENTS

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>% by Weight</u> | <u>OSHA PEL (mg/M³)</u> | <u>ACGIH TLV (mg/M³)</u> |
|---|-------------------|--------------------|--|-------------------------------------|
| Proprietary Formulation (non-hazardous, non-regulated) | N/A | 93-95 | 5 | 2 |
| Calcium carbonate (CaCO ₃) | 1317-65-3 | 1-5 | 5 (respirable dust) 15 (total dust) | 10 |
| Silica (SiO ₂) (as crystalline quartz) | 7631-86-9 | 1-2 | 10/(%SiO ₂ +2) resp. dust 30/(%SiO ₂ +2) total dust | 0.1 (respirable) |

Section 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| | | |
|---|--|---|
| T | | T |
| T | CAUTION! – Strong irritant when in contact with moist tissues. | T |
| T | | T |
| T | Eye contact could cause irritation or burning sensation, watering of eyes. | T |
| T | | T |
| T | Inhalation of product is a strong irritant to the throat or lungs. | T |
| T | | T |

PRIMARY ROUTES OF ENTRY:

Eye and skin contact. Inhalation of dust.

TARGET ORGANS: Eyes, skin, mucous membranes, lungs.

MEDICAL CONDITIONS: (AGGRAVATED BY EXPOSURE) Individuals with pre-existing conditions of emphysema or asthma may experience Respiratory irritation from breathing dust. Skin conditions or dermatitis may be aggravated by contact with this material.

Section 3. HAZARDS IDENTIFICATION (Continued)

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: Contact with eyes may cause irritation or abrasive injury and intense watering of eyes.

SKIN CONTACT: Prolonged contact may result in skin irritation or skin and skin ulcerations.

INGESTION: Ingestion of this product may cause irritation of the mucous membranes of the mouth, throat, esophagus and stomach.

INHALATION: Dust may cause respiratory irritation or fibrosing alveolitis (growth of fibrous tissue in the lung).

ACUTE, CHRONIC: Short-term exposure may cause minor irritation of the skin and mucous membranes.

CARCINOGENICITY: NTP: No IARC: No OSHA: No

Section 4. FIRST AID MEASURES

EYE CONTACT: In case of contact, flush eyes for 15 minutes. Severe eye irritant with intense watering of eyes.

SKIN CONTACT: Wash off promptly when exposure ceases. Prolonged periods as this may cause redness, skin rash/irritation, desquamation, and fissures.

INHALATION: Move victim to a clean, dust-free environment. May cause coughing sneezing and inflammation of breathing passages.

INGESTION: Do not induce vomiting. Give victim 10 oz of water followed by dilute vinegar (1 part vinegar 2 parts water) or fruit juice to neutralize alkalinity.

Section 5. FIRE FIGHTING MEASURES

FLASH POINT: None.

EXTINGUISHING MEDIA: None required; not combustible.

LOWER FLAMMABLE LIMIT: None.

FIRE-FIGHTING INSTRUCTIONS: None required.

AUTO-IGNITION TEMPERATURE: None.

FIRE & EXPLOSION HAZARDS: None.

DECOMPOSITION PRODUCTS: None

NFPA RATINGS: Health = 2 Flammability = 0 Reactivity = 1 Special Hazard = None
 Scale: 0 = Normal material 1 = Slightly hazardous 2 = Hazardous 3 = Extremely dangerous
 4 = Deadly

Section 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Contain the spill. Dispose of as conventional waste suitable for a municipal landfill.

Section 7. HANDLING AND STORAGE

HANDLING: Handle material dry whenever possible. Avoid skin contact. Minimize dust generation. Utilize dust mask and goggles if not in well ventilated area. Water should be available to flush upon eye contact.

STORAGE: Keep material dry stored and in closed containers. Avoid contact with acids.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Use safety glasses when handling sludge or safety goggles if handling dry powder.

SKIN PROTECTION: Cover exposed skin to prevent prolonged contact with material.

RESPIRATORY PROTECTION: Dust mask for handling dry powder when airborne dust exceeds 10 mg/M³.

ENGINEERING CONTROLS: Minimize dust generation.

WORK PRACTICES: Keep material wet to minimize dust generation.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (0 C): 2875.

SOLUBILITY IN WATER: Slightly soluble.

VAPOR PRESSURE: Not Applicable.

Density: 3.3

VAPOR DENSITY: Not applicable.

pH: alkaline 12

%VOLATILE BY WEIGHT: None.

FREEZING POINT: Not available.

APPEARANCE AND ODOR: White chalky powder when dry. Milky liquid as sludge. Mild (stale) odor.

Section 10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under normal temperature and pressures.

CONDITIONS TO AVOID: Incompatible materials, strong acids strongly exothermic. Contact with water appreciably exothermic.

HAZARDOUS POLYMERIZATION: Will not occur.

INCOMPATIBILITY: Acids, boron trifluoride, chlorine trifluoride, ethanol, fluorine, phosphorus pentoxide.

DECOMPOSITION PRODUCTS: Absorbs moisture.

Section 11. TOXICOLOGICAL INFORMATION

ON PRODUCT: Severe irritant to moist tissues.

ON INGREDIENTS:

| Chemical Name | Oral LD ₅₀ (rat) | Dermal LD ₅₀ (rat) | Inhalation LD ₅₀ (rat) |
|--|--------------------------------|----------------------------------|--------------------------------------|
| Proprietary Formulation | not available | not available | not available |
| Calcium carbonate (CaCO ₃) | 6450 mg/kg | not available | not available |

Section 12. ECOLOGICAL INFORMATION

Aquatic Toxicity: No data found. **Environmental Fate:** No data found. **Environmental Toxicity:** No data found.

Section 13. DISPOSAL CONSIDERATIONS

RCRA STATUS: This material is not a RCRA listed hazardous waste nor does it exhibit any hazardous waste characteristics.

DISPOSAL: Dispose of in a manner consistent with federal, state, or local laws and regulations.

Section 14. TRANSPORT INFORMATION

D.O.T. CLASSIFICATION: Not applicable; not a D.O.T. hazardous material.

Section 15. REGULATORY INFORMATION

TSCA: Calcium carbonate is listed on the TSCA inventory.

CERCLA: Not applicable - contains no hazardous substances at or above de minimis concentrations.

SARA TITLE III:

Section 302 Extremely Hazardous Substances: None at or above de minimis concentrations.

Section 311/312 Health and Physical Hazards: Delayed (chronic) health hazard from long-term inhalation of dust.

Section 313 Toxic Chemicals: None at or above de minimis concentrations.

Section 16. OTHER INFORMATION

HMIS RATINGS: Health = 2 Flammability = 0 Reactivity = 1 Personal Protection = B = Safety glasses + gloves + skin covering

1 = Slight
2 = Moderate
3 = Serious
4 = Severe

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