

MATERIAL SAFETY DATA SHEET

Green Stone Products: Power Silicate 7/09/2011

SECTION 1. MATERIAL IDENTIFICATION

Product Name: Power Silicate

Chemical Family: Alkali.

Product Use: To raise the pH of hydroponic nutrient solutions and plant fertilizers.

Manufactured by: Green Stone Products 130 Doolittle Drive Suite 3 & 14 San Leandro CA 94577

For Chemical Emergency, Spill, Leak, Fire Exposure or Accident:

Call CHEMTREC Day or Night

DOMESTIC NORTH AMERICA 800-424-9300

INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

The percentage of mixture information for Power Silicate is withheld as a trade secret. The basic ingredients of Power Silicate are potassium silicate.

SECTION 3. HAZARDS IDENTIFICATION

*** Emergency Overview ***

WARNING! CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY

TRACT; MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects:

Primary Entry Routes: Ingestion, inhalation, skin, eyes.

Target Organs: Mucous membrane of the respiratory system, eyes, and skin.

Acute Effects:

- **Ingestion:** Irritation and possible burns to gastrointestinal system.
- **Inhalation:** Irritation and possible burn of mucous membranes.
- **Eye:** Severe burns.

- **Skin:** Severe irritation and burns

Carcinogenicity: IARC, NTP, and OSHA do not list any of the ingredients as carcinogenic.

Medical Conditions Aggravated by Long-Term Exposure: Pre-existing skin disorders.

Chronic Effects: Same as acute.

Other: None

Section 4. FIRST AID MEASURES

Ingestion: Never give anything by mouth to an unconscious or convulsing person. Dilute the alkali by feeding water or milk, and seek immediate medical help.

Eye Contact: Do not allow victim to rub or keep eyes tightly shut. Gently lift eyelids and flush immediately and continuously with flooding amounts of water for at least 15 minutes. Consult a physician or ophthalmologist if pain or irritation develops.

Skin Contact: Wash exposed area with soap and water. For reddened or blistered skin, consult a physician.

Inhalation: Remove exposed person to fresh air and support breathing, if necessary. Consult a physician as soon as possible.

After first aid: Get appropriate community medical support.

SECTION 5. FIRE AND EXPLOSION DATA

Flash Point: Not flammable.

Auto-ignition Temperature: Not flammable.

LEL: Unknown.

Flammability Classification: Not flammable.

Burning Rate: Not flammable.

Extinguishing Media: Use dry chemical, carbon dioxide, water spray, fog, or foam.

Unusual Fire or Explosion Hazards: Container may explode in heat of fire.

Hazardous Combustion Products: Unknown.

Fire Fighting Instructions: Do not release run-off from fire control methods to sewers or waterways.

Fire Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full-face piece.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill /Leak Procedures: Use personal protective equipment, neutralize with weak acid (acetic), and place in closed container for disposal. Flush spill area with water. In case of large spill, clear the area and notify appropriate emergency response activity.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION 7. HANDLING AND STORAGE

Handling Precautions: Avoid contact with skin and eyes, inhalation of aerosols and ingestion. Wear an appropriate NIOSH-approved respirator for protection where airborne concentrations are excessive.

Respirator usage must be in accordance with OSHA requirements (29 CFR 1910.134).

Storage Requirements: Store as a corrosive in tightly closed containers away from acids.

Regulatory Requirements: Follow applicable OSHA regulations.

SECTION 8. EXPOSURE CONTROLS/personal protection

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations as low as possible.

Administrative Controls: Avoid inhalation, ingestion, skin and eye contact.

Respiratory Protection: If this product is used as directed, respiratory protection is not required. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/ NIOSH-approved respirator. If respirators are used, OSHA requires a written respiratory protection program that includes, at least: medical certification, training, fit testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/ Equipment: Use gloves and aprons while using.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor and Physical State: Clear liquid

Odor Threshold Range: Odorless.

Vapor Pressure: Unknown.

pH: 12.

Specific Gravity: 1.09.

Water Solubility: Completely soluble.

Other Solubility's: Unknown.

Boiling Point: 212 F.

Freezing Point: 32 F **Viscosity:** Unknown.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable at room temperature in closed containers, under normal storage and handling conditions.

Polymerization: Hazardous polymerization cannot occur.

Chemical Incompatibilities: Acids, metals (aluminum, zinc, tin), organics, nitrocarbons, halocarbons,

Conditions to Avoid: High temperatures and flames.

Hazardous Decomposition Products: Carbon dioxide and possibly carbon monoxide.

SECTION 11. TOXICOLOGICAL INFORMATION

The toxicity of the combination of the chemicals in the concentrations used in Green Stone Products Power Silicate is unknown.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Unknown

Environmental Fate: Not expected to be significant. Physical removal from air can occur via rainfall.

Environmental Degradation: Unknown.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal: Follow Federal, State, and local regulations.

SECTION 14. TRANSPORTATION INFORMATION

Do not transport with food and feedstuff

Proper Shipping Name: Corrosive mixture, liquid, basic, inorganic, n.o.s.

Hazard Class: 8

UN/NA: 3266

Packing Group: III

SECTION 15. REGULATORY INFORMATION

EPA Regulations: Not listed

SECTION 16. OTHER INFORMATION

Green Stone Products Power Silicate is a plant nutrition aid. Information assembled for this Material Safety Data Sheet is for the use of this product as intended by the manufacturer. Users should take all precautions recommended herein while working with this product.

Green Stone Products provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in using this product.