

Trade Name/Synonym : **Pro-TeKt – The Silicon Solution**
 Date Prepared : June 1, 2009
 Chemical Name : Silicic acid, Potassium salt
 Formula : Mixture Potassium Silicate solution

Section 1: Manufacturer or Supplier

Dyna-Gro Nutrition Solutions™, 2775 Giant Road, Richmond, CA 94806, (800) 396-2476, Emergency (510) 233-0254

Section 2: Hazardous Ingredients

Contains no hazardous mixtures.

Section 3: Physical Data & Ingredients

Physical State at STP : Liquid	pH : 10.5
Specific Gravity : 1.2	Solubility in Water : Miscible
Melting Point : 32° F	Evaporation Rate : N/A
Appearance & Odor : Clear Odorless Liquid	

Chemical or Common Name	CAS#	%	OHSAA PEL	ACGIH TLV
Water	7732-18-5	75.1%	Not Established	Not Established
Silicic acid, potassium salt; Potassium silicate	1312-76-1	24.9%	Not Established	Not Established

Section 4: Fire & Explosion Hazard Data

Flash Point : Non Flammable
 Auto-Ignition Temp. (Lower) : N/A
 Auto-Ignition Temp. (Upper) : N/A
 Flammable Limits in Air : N/A
 Extinguishing Media to Use : Dry Chemicals, CO₂, Water or Water Base Foam
 Special Fire Fighting Equipment . . . : Wear protective clothing & breathing unit
 Unusual Fire & Explosion Risk . . . : None

Section 5: Reactivity Hazard Data

Stability : Stable
 Incompatibility : Gels when mixed with acid. Spills on glass or tile can turn surface permanently white.
 Hazardous Decomposition : Hydrogen Gas
 Conditions to Avoid : May produce flammable Hydrogen gas on prolonged contact with certain metals (aluminum, tin, lead, and zinc).

Section 6: Health Hazard Data

Effects of Over-Exposure: Prolonged contact with skin may cause itching or burning. Contact with eyes may cause pain, redness and tearing. Inhalation may cause a burning pain in nose and throat. If swallowed, may cause irritation to the esophagus and stomach.

Section 6: Health Hazard Data – continued

Health Hazards: Acute: Irritation to skin mucus membranes
Chronic: No known chronic hazards. Not listed by OSHA as a carcinogen.

Carcinogenicity: Not a carcinogen.

Medical Conditions Aggravated by Exposure: Asthma and lung diseases, skin diseases.

Emergency First Aid:

If Swallowed. : Drink large amounts of water. Call a physician.

Skin Exposure. : Flush with plenty of water.

Eye Exposure : Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

If Inhaled : Remove to fresh air. Call a physician.

Section 7: Spill or Leak Procedures

Environmental Hazard : High pH (alkalinity) of undiluted or non-neutralized material is harmful to aquatic life.
Not a listed toxic chemical under SARA Title III, Sections 302, 304 or 313.

Steps to take if Spill Occurs : Sinks and mixes with water. Not a RCRA Hazardous waste. Neutralize with dilute acid

and landfill solids according to local, state and federal regulations. Flush neutral liquid to sewer with plenty of water.

Waste Disposal Method : Neutralize with dilute acid and landfill solids according to local, state and federal regulations. Flush neutral liquid to sewer with plenty of water.

Section 8: Special Protection Information

Respiratory Protection : Self-contained breathing apparatus where concentrate spray occurs.

Ventilation : Use with adequate ventilation

Eye Protection : Safety goggles

Protective Gloves : Rubber

Other Protective Equipment : Non-absorbent clothing and rubber boots.

Section 9: Handling & Storage Conditions

Storage Temperature (Min./Max.): 35° F / 200° F

Shelf Life. : Indefinite

Handling Precautions : Do not drink, get in eyes, on skin or on clothing. Avoid breathing vapor. Wash thoroughly with soap and water after handling. Promptly clean up spills.

Storage Precautions : Keep in tightly closed container. Store in clean steel or plastic containers. Separate from acids, reactive metals and ammonium salts. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

The information contained herein is provided in good faith and is believed to be correct and equivalent to OSHA Form 174, as of the date hereof, but is issued without guarantee. Since conditions of use are beyond our control, user assumes all responsibility and risk.