



## Material Safety Data Sheet (MSDS)

POWER SI ORIGINAL

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND COMPANY

**Trade Name** : Power Si  
**Chemical Name** : Mixture  
**CAS No.** : Mixture  
**Product Use** : Fertilizer  
**Manufacturing company** : HPI Distribution  
**Address** : 33175 Temecula Pkwy, Suite A #131  
Temecula, CA 92592  
949.544.0

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS No.	% w/w	EXPOSURE LIMITS IN AIR				
			OSHA		ACGIH		IDLH mg/m <sup>3</sup>
			PEL mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	TLV mg/m <sup>3</sup>	STEL mg/m <sup>3</sup>	
Urea	57-13-6	3.00	NE	NE	NE	NE	NE
Phosphoric Acid	7664-38-2	10.00	1	3	NE	NE	NE
Potassium Silicate	1312-76-1	19.00	NE	NE	NE	NE	NE
Sodium Molybdate	7631-95-0	0.03	5	NE	0.5	NE	1000
Boric Acid	10043-35-3	0.60	10	NE	10	6	NE
Water	7732-18-5	Q.S.	NE	NE	NE	NE	NE

NE = Not Established

C = Ceiling Limit

See Section 16 for Definitions of Terms Used

### SECTION 3: HAZARD IDENTIFICATION

**Potential Acute Health Effects** : Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of ingestion, of inhalation.

**Potential Chronic Health Effects :** CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

#### **SECTION 4: FIRST AID MEASURES**

**Eye Contact :** Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.

**Skin Contact :** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used.

**Serious Skin Contact :** Not available.

**Inhalation :** If inhaled, move to fresh air. If breathing is difficult, give oxygen. Get medical attention.

**Serious Inhalation :** Not available.

**Ingestion :** Rinse mouth. Do Not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

**Serious Ingestion :** Not available.

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#### **SECTION 5: FIRE FIGHTING MEASURES**

**Flammability of the Product** : May be combustible at high temperature.

**Auto-Ignition Temperature** : Not available.

**Flash Points** : Above 190°C.

**Flammable Limits** : Not available.

**Products of Combustion** : Not available.

**Fire Hazards in Presence of Various Substances** : Slightly flammable in presence of open flames.

**Explosion Hazards in Presence of Various Substances :** Risks of explosion of the product in presence of mechanical impact : Not available; Risks of explosion of the product in presence of static discharge : Not available.

**Fire Fighting Media and Instructions :** SMALL FIRE: Use DRY chemical powder; LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards** : Not available.

**Special Remarks on Explosion Hazards** : Not available.

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## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions :** Evacuate non essential personnel, eliminate ignition sources, and wear protective equipment. Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded. Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose off according to local and regional authority requirements.

**Large Spill :** Evacuate unprotected personnel from the area. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Avoid runoff to ground water, surface waters, and sewers.

## **SECTION 7: HANDLING AND STORAGE**

**Precautions :** Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents, acids, alkalis.

**Storage :** Keep container tightly closed. Keep container in a cool, well-ventilated area.

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## **SECTION 8: EXPOSURE CONTROLS & PERSONAL PROTECTION**

**Engineering Controls:** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Personal Protection:** Safety glasses. Lab coat. Vapor respirator. Be sure to use an approved /certified respirator or equivalent. Gloves.

**Personal Protection in Case of a Large Spill:** Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

**Exposure Limits:** Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state and appearance</b>	: Clear & Viscous Liquid
<b>Odor</b>	: Odourless
<b>Taste</b>	: Not available
<b>Molecular Weight</b>	: Not available
<b>Color</b>	: Colourless
<b>pH (1% soln/water)</b>	: 2.0 - 3.0
<b>Boiling Point</b>	: Not available
<b>Melting Point</b>	: Not available
<b>Critical Temperature</b>	: Not available
<b>Specific Gravity</b>	: 1.0825-1.1500 g/ml. (Water = 1)
<b>Vapor Pressure</b>	: Not available
<b>Vapor Density</b>	: Not available
<b>Volatility</b>	: Not available
<b>Odor Threshold</b>	: Not available
<b>Water/Oil Dist. Coeff.</b>	: Not available
<b>Ionicity (in Water)</b>	: Not available
<b>Dispersion Properties</b>	: See solubility in water
<b>Solubility</b>	: Soluble in water.

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## SECTION 10: STABILITY AND REACTIVITY

**Stability** : Stable under conditions of standard temperature and pressure.

<b>Instability Temperature</b>	: Not available.
<b>Conditions of Instability</b>	: Incompatible materials, excess heat.
<b>Incompatibility with various substances</b>	: Not available.
<b>Corrosivity</b>	: Not available.
<b>Polymerization</b>	: Not available.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

<b>Routes of Entry</b>	: Absorbed through skin. Eye contact. Inhalation. Ingestion.
<b>Toxicity to Animals</b>	: Not determined.
<b>Chronic Effects on Humans</b>	: Not available.
<b>Other Toxic Effects on Humans</b>	: Slightly hazardous in case of skin contact (irritant, permeator), of ingestion, of inhalation.
<b>Special Remarks on other Toxic Effects on Humans</b>	: Not available.

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## **SECTION 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	: Not available.
<b>BOD and COD</b>	: Not available.
<b>Products of Biodegradation</b>	: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation</b>	: The products of degradation are less toxic than the product itself.
<b>Special Remarks on the Products of Biodegradation</b>	: Not available.

## **SECTION 13: DISPOSAL CONSIDERATION**

**Waste Disposal :** Waste must be disposed of in accordance with federal, state and local environmental control regulations. If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods.

**Disposal Regulatory Requirements :** Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations.

#### **SECTION 14: TRANSPORT INFORMATION**

**DOT Classification** : Not a DOT controlled material (United States).

**Identification** : Not applicable.

**Special Provisions for Transport** : Not applicable.

#### **SECTION 15: REGULATORY INFORMATION**

**OSHA** : Not Determined

**TSCA (Toxic Substance Control Act)** : Not Determined

##### **Other Classifications:**

**WHMIS (Canada)** : Not Determined

**DSCL (EEC)** : Not Determined

**Protective Equipment** : Gloves. Lab coat. Be sure to use an approved / certified respirator or equivalent. Safety glasses.

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#### **SECTION 16: OTHER INFORMATION**

**Further Information** : Keep out of reach of children and Pets.

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A large number of abbreviations and acronyms appear on a MSDS. Some of these which are commonly used include the following:

**EXPOSURE LIMITS IN AIR:**

**ACGIH** - American Conference of Governmental Industrial Hygienists, a professional association which establishes exposure limits. **TLV** - Threshold Limit Value - an airborne concentration of a substance which represents conditions under which it is generally believed that nearly all workers may be repeatedly exposed without adverse effect. The duration must be considered, including the 8-hour Time Weighted Average (**TWA**), the 15-minute Short Term Exposure Limit, and the instantaneous Ceiling Level (**C**). Skin absorption effects must also be considered.

**OSHA** - U.S. Occupational Safety and Health Administration.

**PEL** - Permissible Exposure Limit - This exposure value means exactly the same as a TLV, except that it is enforceable by OSHA. The OSHA Permissible Exposure Limits are based in the 1989 PELs and the June, 1993 Air Contaminants Rule (Federal Register: 58: 35338-35351 and 58: 40191). Both the current PELs and the vacated PELs are indicated. The phrase, "Vacated 1989 PEL," is placed next to the PEL which was vacated by Court Order. **IDLH** - Immediately Dangerous to Life and Health - This level represents a concentration from which one can escape within 30- minutes without suffering escape-preventing or permanent injury.

**The DFG - MAK** is the Republic of Germany's Maximum Exposure Level, similar to the U.S. PEL. **NIOSH** is the National Institute of Occupational Safety and Health, which is the research arm of the U.S. Occupational Safety and Health Administration (**OSHA**). NIOSH issues exposure guidelines called Recommended Exposure Levels (**RELs**). When no exposure guidelines are established, an entry of **NE** is made for reference.

**REGULATORY INFORMATION:** This section explains the impact of various laws and regulations on the material. **U.S.:** **EPA** is the U.S. Environmental Protection Agency. **DOT** is the U.S. Department of Transportation.