



## POWER SI ORIGINAL

### SAFETY DATA SHEET

Prepared in accordance with US HazCom 2012 (US GHS)

Date of Compilation : 29.03.2022

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#### SECTION 1: Identification of the substance and of the company/undertaking

##### 1.1. Product identifier

**Product Name:** POWER SI ORIGINAL

##### 1.2. Relevant identified uses of the substance and uses advised against

**Relevant identified uses:**

Used as agricultural input

**Uses advised against:**

No information available

##### 1.3. Details of the supplier of the safety data sheet

**Manufacturer:**

Canopy Crop Management

**Reg. office:** 5619 DTC Parkway, Suite 900, Greenwood Village, CO 80111

##### 1.4. Emergency telephone number:

**Poison Control Centre, United States: Emergency telephone number:**

1-800-222-1222

#### SECTION 2: Hazards identification

##### 2.1. Classification of the mixture

**Classification according to US HazCom 2012 (US OSHA GHS):**

Reproduction Toxicity, Category 1B

Eye Irritation, Category 2

Skin Irritation, Category 2A

**Additional Information:**

None

##### 2.2. Label elements

**Labeling according to US HazCom 2012 (US OSHA GHS):**

**Hazard pictogram:**



**Signal word:**

Danger!

**Hazard statements:**

May damage fertility or the unborn child.

S  
I  
v

Causes skin irritation.  
Causes serious eye irritation

**Precautionary statements:**

Do not handle until all safety precautions have been read and understood. IF exposed or concerned: Get medical advice/attention. Store locked up. Dispose of contents/container to an approved disposal plant in accordance with national/local regulations. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. IF ON SKIN: Wash with plenty water and soap. Specific treatment (see supplemental first aid instructions on this label). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

Not known

**SECTION 3: Composition/information on ingredients**

**3.1. Mixture**

CAS No.	Chemical Name	Weight (% w/w) content (Typical or range)	Classification according to US HazCom 2012 (US OSHA GHS)
1312-76-1	Potassium silicate liquid	19.0	Eye Irritation, Category 1 Skin, Irritation (Category 2)
57-13-6	Urea	3.0	Not classified
7664-38-2	Phosphoric Acid	10.0	Eye Irritation, Category 1 Skin, Irritation (Category 2)
10043-35-3	Boric acid	0.6	Reproduction Toxicity, Category 1B
7631-95-0	Sodium Molybdate	0.03	Not classified

Note: None of the other ingredients of the product are hazardous under US HazCom 2012 (US OSHA GHS) and thus not required to be reported in this section.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**following inhalation:**

Immediately remove casualty to fresh air and keep them warm. If breathing has stopped, and if safe to do so, apply artificial resuscitation using a barrier device. Seek medical attention if symptoms persist or develop

**following skin contact:**

Immediately remove any contaminated clothing, including jewellery, and rinse affected area with plenty of water, or soap and water, for at least 15 minutes. Seek medical attention if symptoms persist or develop

**following eye contact:**

Immediately rinse the affected eye with plenty of water or eye wash fluid for at least 15 minutes while separating the eyelids. Remove contact lenses if safe and easy to do so and continue rinsing. Avoid contaminated water coming into contact with the other eye or face. Seek medical attention if symptoms persist or develop.

**following ingestion:**

Do NOT induce vomiting. Rinse out mouth with water if casualty is fully conscious. Seek medical attention if symptoms persist or develop

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**notes for the doctor:**

Treat symptomatically

**4.2. Most important symptoms and effects, both acute and delayed**

May cause skin and eye irritation and eye redness

**4.3. Indication of any immediate medical attention and special treatment needed**

No information available

**SECTION 5: Fire-fighting measures**

**5.1. Extinguishing media**

Dry extinguishing media, foam, carbon dioxide, Water spray or fog

**5.2. Special hazards arising from the mixture**

Burning may produce, Carbon dioxide, Carbon monoxide, Sulphur dioxide (SO<sub>2</sub>). Sulphur trioxide, Zinc Oxide and irritating, toxic and obnoxious fumes.

**5.3. Advice for fire-fighters**

Self-contained breathing equipment. Individual protective equipment (gloves, boots (chemical resistant) and suitable clothing). Seek emplacement with your back against the wind.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with the eyes, skin and clothing. Do not act without appropriate protective equipment.

**6.2. Environmental precautions**

Recover the whole product that is possible in a clean dry plastic or metallic container. Prevent material from entering drains or water courses

**6.3. Methods and material for containment and cleaning up**

Small spillage: Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations.  
Large spillage: Large spills should be collected mechanically (remove by pumping) for disposal.

Dispose of absorbed material in accordance with regulations.

**6.4. Reference to other sections**

Please see Section 8

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Do not ingest. Avoid contact with eyes and skin. Do not breathe fumes/ vapor/spray. Wear suitable protective clothing.

Ensure thorough ventilation of stores and work areas.

Keep away from incompatibles (please refer to Section 10.5).

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep container tightly closed and sealed until ready for use.

Store in original containers. Keep containers securely sealed. Store in a cool, dry, well-ventilated area. Store away from incompatible materials. Protect containers against physical damage and check regularly for leaks.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limit values:**

No data available

**8.2. Exposure controls**

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**Appropriate engineering controls:**

Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Individual protection measures:**

**Eye/face protection:**

Use tight-fitting goggles, face shield or safety glasses (refer to U.S. OSHA 29 CFR 1910.133) with side shields if eye contact might occur.

**Skin/Hand protection:**

Avoid skin contact. Use chemically resistant gloves (refer to U.S. OSHA 29 CFR 1910.138), boots, and apron if risk of skin contact.

Gloves suitable for permanent contact Material: natural rubber/natural latex, polychloroprene, butyl-rubber, Polyvinylchloride, nitrile rubber/nitrile latex, fluoro carbon rubber.

Minimum Thickness of Gloves material preferred: 0.3 mm

When prolonged or frequently repeated contact may occur, a glove with breakthrough time greater than 240 minutes is recommended.

When only brief contact is expected, a glove with breakthrough time greater than 60 minutes is recommended

**Respiratory protection:**

No personal respiratory protective equipment normally required. If engineering controls do not maintain airborne concentrations below recommended exposure, an approved, properly fitted respirator (refer to U.S. OSHA 29 CFR 1910.134) should be used

**Thermal Hazards:**

No information available

**Environmental exposure controls:**

Do not allow run-off from fire fighting to enter drains or water courses

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	Clear & Viscous Liquid
<b>Odour</b>	No data available
<b>Odour threshold</b>	No data available
<b>pH (1% dilution)</b>	2.0 - 3.0 (@ 77°F)
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	No data available
<b>Flash point</b>	> 190 °C (Closed cup)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Relative Density (Water = 1)</b>	1.0825 - 1.1500

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<b>Solubility in water</b>	No data available
<b>Partition coefficient: n-octanol/water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Explosive properties</b>	Non-explosive
<b>Oxidising properties</b>	Non-oxidising

## 9.2. Other information

Not available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal temperatures and pressures. The product is reactive with the incompatible materials (please refer section 10.5).

### 10.2. Chemical stability

Stable under normal temperatures and pressures

### 10.3. Possibility of hazardous reactions

Hazardous polymerization cannot occur.

### 10.4. Conditions to avoid

No information available

### 10.5. Incompatible materials

Strong acids and alkalis, phosphorus, finely divided aluminium, magnesium, strong oxidizing agents

### 10.6. Hazardous decomposition products

Burning may produce, Carbon dioxide, Carbon monoxide, Sulphur dioxide (SO<sub>2</sub>). Sulphur trioxide, Zinc Oxide and irritating, toxic and obnoxious fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity:

Rat Oral LD<sub>50</sub> (estimated): > 2000 mg/kg bw

Rabbit Dermal LD<sub>50</sub> Rabbit (estimated): > 2000 mg/kg bw

#### Skin corrosion/irritation:

No data available for the product as such.

Based on the available data / information on ingredients, the product is expected to be skin irritant

#### Serious eye damage/irritation:

No data available for the product as such.

Based on the available data / information on ingredients, the product is expected to be eye irritant

#### Respiratory or skin sensitization:

No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be Respiratory or skin sensitizer

#### Germ cell mutagenicity:

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No data available for the product as such.  
Based on the available data / information on ingredients, the product is not expected to be mutagen

**Carcinogenicity:**

No data available for the product as such.  
Based on the available data / information on ingredients, the product is not expected to be carcinogen  
No ingredient is listed by NTP, IARC or OSHA as a carcinogen

**Reproductive toxicity:**

No data available for the product as such.  
Based on the below Boric acid data and its GHS classification when compared with US OSHA GHS classification criteria, the product has been classified as Reproductive Toxicity Category 1B

Available data / information on Boric acid:

A multigeneration study in the rat (Weir, 1966) gave a NOAEL for fertility in males of 17.5 mg B/kg/day.

**STOT-single exposure:** No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be Specific Target Organ Toxic based on single exposure

**STOT-repeated exposure:** No data available for the product as such

Based on the available data / information on ingredients, the product is not expected to be Specific Target Organ Toxic based on repeated exposure

**Aspiration hazard:** No data available for the product as such.

Based on the available data / information on ingredients, the product is not expected to be aspiration hazard

**SECTION 12: Ecological information**

**12.1. Toxicity**

No data available

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

No data available

**12.4. Mobility in soil**

No data available

**12.5. Other adverse effects**

No information available

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

Dispose of contents/container in accordance with local/regional/national/international regulation.

**SECTION 14: Transport information**

The material is not regulated by ADR/RID/IATA/IMDG/US DOT

Regulation	ADR/RID/ADN/ ICAO-TI/IATA- DGR	IMDG Code	US DOT
<b>14.1. UN Number</b>	N/A	N/A	N/A
<b>14.2. UN proper shipping name</b>	N/A	N/A	N/A
<b>14.3. Transport hazard class(es)</b>	N/A	N/A	N/A

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<b>14.4. Packing group</b>	N/A	N/A	N/A
<b>14.5. Environmental hazards</b>	N/A	N/A	N/A
<b>14.6. Special precaution for users</b>	N/A	N/A	N/A
<b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code</b>	N/A	N/A	N/A

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**SECTION 15: Regulatory information**

**15.1. Safety, health and environmental regulations/legislation specific for the mixture**

All the chemical ingredients are listed in TSCA inventory and designated as Active.

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**SECTION 16: Other information**

**Key literature references and sources for data:**

TOXNET; eChemPortal

**Disclaimer:**

All information, recommendations and suggestions appearing herein are based upon sources believed to be reliable. However, it is the user's responsibility to determine the safety, toxicity and suitability for its own use of this product. Canopy Crop Management does not assume any liability arising out of the use by others of this product.