

**1. Identification of the Substance/Preparation:**

**Use:** Liquid plant fertilizer

**Product name:** FLORAMAX SILICA

**Company:** Floragarden Wholesale

**Address:** PO Box 173, Applecross WA, 6953, AUSTRALIA.

**Telephone Numbers:** (+61) 0411-297-030

**Emergency Telephone Numbers:** (+61) 0411-297-030

**2. Hazards identification**

**Non hazardous according to criteria of OSHA or NHOSC Australia, Non DG.**

**Toxicity Data:** Not available

**Swallowed:** Data suggests that the product should be considered harmful by ingestion. May cause problems if treatment is not sought. Symptoms include nausea, vomiting, abdominal pain and diarrhea. May cause severe irritation of the throat, mouth and stomach.

**Eye:** This product is severely irritating to the eyes. It will cause intense discomfort such as severe pain, copious watering and redness of the eyes. Effects will last long after exposure has ceased. Following severe exposure, permanent effects such as corneal damage or blindness can occur.

**Skin:** Data suggests that the product should be classified as very irritating in contact with the skin. May cause symptoms ranging from itching to redness and blisters if not treated promptly.

**Inhaled:** Data suggests that the product should be classified to be irritating by inhalation. Inhalation may cause coughing and chest discomfort.

Primary route of exposure is inhalation and skin and eye contact.

**3. Composition/information on ingredients**

Aqueous alkaline solution of potassium silicate for use as a plant fertilizer:

Common Name	CAS	Conc
Silica (SiO <sub>2</sub> ) as Potassium silicate	-	12% W/V
Water		to 100% W/V

**4. First-aid measures**

**Swallowed:** If poisoning occurs contact a doctor or poisons information centre. If swallowed, do not induce vomiting. Give a glass of water.

**Eye:** If this product comes in contact with eyes, hold open and wash with running water for at least 15 minutes. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. Seek medical attention.

**Skin:** If this product comes in contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

**Inhaled:** If mists are inhaled, remove to fresh air. Lay victim down and keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to doctor or hospital immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

**Advice to doctor:** Treat symptomatically. Note the nature of this product.

**5. Fire fighting measures**

**Fire / Explosion:** There is no explosion hazard from this material under normal circumstances.

**Flammability:** Not flammable.

**Extinguishing Media:** Use media suited to the burning material.

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### 6. Accidental release measures

**Spills:** Prevent product from entering rivers, canals and other waterways. Wear full protective clothing including face mask, face shield and gauntlets. Stop leak if safe to do so and contain spill. Absorb into vermiculite or other absorbent material. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, prevent runoff from entering drains. If material enters drains, advise emergency services. Dispose only in compliance with local regulations. Slippery on floors, especially when wet. Launder all contaminated clothing before reuse. Neutralize contaminated area with weak or dilute acid solution.

**Materials to Avoid:** Forms gels with acids. Corrodes metals such as aluminium, tin, lead and zinc and their alloys.

**Disposal (After treatment above):** Refer to waste management authority.

### 7. Handling and storage

Containers should be kept closed to minimize contamination. Keep from extreme heat, open flames and make sure the material does not come into contact with water or acids.

Do not store in aluminium or galvanised containers.

### 8. Exposure controls/personal protection

Generally not a hazard when handled carefully and as instructed. However, as a precaution, especially if splashing of liquid is possible, suitable personal protective equipment appropriate to the task should be worn.

**Hand:** Use rubber or plastic gloves.

**Eyes:** Approved chemical safety goggles or face protection.

**Skin:** Wear protective overalls buttoned at the wrist and neck (or bib resistant to alkalis) and impervious footwear. Sleeves of jackets or shirts should be buttoned over the glove wrists; trousers should be worn with the bottoms of legs outside the boots - not tucked in.

**Respiration:** Personal protection is not normally required unless a risk assessment indicates the need for it.

Eye wash fountains and safety showers should be located near any area where this product is handled. Remove contaminated clothing promptly. Keep contaminated clothing in closed containers. Discard or launder before rewearing. Inform laundry personnel of contaminants hazards. Do not smoke, eat or drink in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping.

### 9. Physical and chemical properties

Appearance: Clear, pale red water based liquid

Melting Point: No data. About 50C

Boiling Point: About 1050C

Vapour Pressure: 17 mm of Hg @ 200C

Specific Gravity: 1.15

Flashpoint: Not flammable

Flammability Limits: Not flammable

Solubility in Water: Soluble in all proportions

pH: 12 (Alkaline )

Corrosiveness: Corrodes aluminium, zinc, tin. Exothermic reaction with acids.

### 10. Stability and reactivity

Stable under normal conditions. Keep containers tightly capped at all times and store only in opaque containers. Do not store in aluminium or galvanised containers.

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## 11. Toxicological information

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Primary route of exposure is inhalation and skin and eye contact.

## 12. Ecological information

Prevent product from entering rivers, canals and other waterways.

## 13. Disposal considerations

Observe local legislation.

## 14. Transport information

Not subject to ADR/DOT/IATA/IMDG codes.

## 15. Regulatory information

**Risk phrases:**

R22: Harmful if swallowed.

**Safety phrases:**

S2: Keep out of reach of children.

S24/25: Avoid contact with skin and eyes.

**TSCA (U.S. Federal):** Not subject.

**CPSC (U.S. Federal):** Compliant.

## 16. Other information

**Contact Points:** Andrew Taylor

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### **DISCLAIMER**

*This SDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification of further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. All information is as accurate and up to date as possible.*