



*Specialty Agro-Input Products*

# CropSIL

## MATERIAL SAFETY DATA SHEET

Date Issued: 01.04.12.

1. IDENTIFICATION OF THE PREPARATION	
Product Name	CROPSIL
Application	Used as Plant Immunity & Yield Booster for enhancing productivity & quality of crops
Company Identification	NuVia Technologies Inc. 85 Chambers Drive. Unit #5, Ajax, ON. L1Z 1E2 Canada
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2. COMPOSITION OF INGREDIENTS	
Contents	O-Silicic Acid
CAS-Nr. Designation	1343-98-2
Description	Mixture of monomeric silica additives & stabilizers
Chemical Formula	H <sub>2</sub> SiO <sub>3</sub>
Molecular Weight (MW)	78
HS Code	2839110000

3. HAZARD IDENTIFICATION
<p><b>Contact with Eyes:</b> May cause irritation.</p> <p><b>Contact with Skin:</b> None.</p> <p><b>Ecological Hazards:</b> Bacteriostatic in nature. Inhibits both gram+ve and gram -ve bacteria</p>

4. FIRST AID MEASURES
<p><b>General information:</b> Bring affected persons out of danger area. Observe self-protection (body protection, eye protection, respiratory protection).</p> <p><b>After skin contact:</b> On skin contact, rinse thoroughly with water. Remove contaminated or saturated clothing</p>

immediately. If irritation persists, supply with medical care immediately. Keep warm in a comfortable position and cover with blanket.

**After eye contact:** With eye held open, thoroughly rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if easily possible. Seek medical attention if needed.

**After swallowing:** Have patient rinse out mouth with water. Drink plenty of salt water. Induce vomiting. Consult doctor immediately.

## 5. FIRE FIGHTING MEASURES

- Does not contain any flammable substance, therefore, no special fire fighting measures need to be followed.
- Wear full protective clothing including chemical protection suit.
- Prevent run-off water from entering drains.
- If polluted water reaches drainage systems or water courses, immediately inform appropriate authorities.

## 6. ACCIDENTAL RELEASE MEASURES

### Experience on Humans

**Effect on Skin:** None

**Effect on eyes:** May cause irritation. Wash with plenty of water.

**Effect on ingestion:** Give stomach wash, if ingested

## 7. HANDLING AND STORAGE

**HANDLING:** Information for safe handling

Special care is required for handling of the product to prevent contamination. Protect from impurities. Never return spilt product to original container.

**STORAGE CONDITION:** Requirement to be met by storerooms and containers: Only use polyethylene material (HDPE) bottles/containers thoroughly covered with lid. Always close container tightly after removal of product.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### **General Protective and hygienic measures**

**Protection of hands:** Wear protective gloves made of PVC, neoprene or natural rubber.

**Eye protection:** Wear safety goggles.

**Body protection:** Change work clothes immediately if spilled with the product.

## 9. PHYSICAL & CHEMICAL PROPERTIES

Physical Properties	
Form	Liquid
Colour	Light Yellow – Light Brown
Gardener Scale Value	7 – 9
Odor	Ammonical
Chemical Properties	

<b>Base</b>	Mixture of monomeric silica additives & stabilizers
<b>Specific Gravity</b>	1.10 – 1.20 kg/l
<b>pH</b>	13 – 14
<b>Viscosity (Ford Cup No.4)</b>	15 sec ± 5 sec
<b>Flash Point</b>	Not applicable as it is a water-based product
<b>Solubility</b>	Completely miscible in water in all proportions
<b>Stability</b>	Stability at ambient temperature under normal conditions of use

## 10. STABILITY AND REACTIVITY

- Stable at Room Temperature
- It is not affected by atmospheric oxygen
- **Conditions to be avoided:** None
- **Substances to be avoided:** None
- **Reactivity:** The product is inert to most acids.
- **Solubility:** It is soluble in water in all proportions

## 11. TOXICOLOGICAL INFORMATION

Chronic Toxicity has not been demonstrated by **SILICIC ACID**

**Silicic Acid is not listed as a carcinogen by MAK, IARC, NTP, OSHA, and ACGIH.**

**Carcinogenicity:** No evidence of carcinogenic effects

**Teratogenicity:** No evidence of teratogenic effects

**Mutagenicity:** No evidence of mutagenic effects

**The LD50 value (Oral: Rat & Mice) is 2000 mg/kg body weight.**

## 12. ECOLOGICAL INFORMATION

**Eco-toxicity:** None

**Mobility:** Soluble in water in all proportions

**Persistence and Biodegradability:** None

**Risk of bioaccumulation:** None

**Other adverse effects:** None

## 13. DISPOSAL CONSIDERATIONS

### **Recommendation: Product**

Cannot be disposed off in the environment. Local legal regulations and permission by the responsible local legal authority are required for safe disposal of the product. Please comply with them.

### **Unclean packaging:**

Rinse empty containers with water prior to disposal. Take decontaminated packaging to local recycling centre

#### 14. TRANSPORT INFORMATION

Product is safe for transport by Roadways, Airways or Waterways. No special precautions need to be taken for the product with adequate packing in plastic bottles/containers – as mentioned in Section 7.

#### 15. REGULATORY INFORMATION

**Labeling of substances in line with EC Directive 67/546/EEC and amendment.**

**Risk phrases:** None

**Safety phrases:**

S2 - Keep out of reach of children

S7 - Keep container tightly closed

S25 - Avoid contact with eyes

S28 - After contact with skin, wash immediately with plenty of water

S36/37/39 - Wear suitable protective clothing, gloves, eye/face protection

S45/46 - If swallowed or in case of accident or if you feel unwell, seek medical advice immediately (show the label if possible)

#### 16. OTHER INFORMATION

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