



610, rue Adanac, Quebec (Quebec) G1C 7B7

## SAFETY DATA SHEET

Poison control center (Quebec)  
(800) 463-5060

Tel. (Qc): (418) 660-8666  
Tel. (Mtl): (450) 443-1046  
Fax. (Qc): (418) 660-8998

### SECTION 1 Identification

**Product Name:** SILICIUM REFERENCE SOLUTION 1000 PPM

**Matrix:** Water

containing the following elements:

1000 µg/ml: Silicon (Si)

Product Number : AA-5500

Supplier : Laboratoire MAT Inc.  
610 Adanac street  
Quebec QC G1C 7B7  
CANADA  
www.labmat.com

Telephone : 418-660-8666

Fax : 418-660-8998

Emergency : 613-996-6666

E-mail : labmat@labmat.com

### SECTION 2 Hazards Identification

#### Emergency Overview

#### GHS

Harmonized Classification – Annex VI of Regulation (EC) No 1272/2008 (CLP Regulation)

**Classification:** Harmful

**Pictograms:**



**Signal Word:** Warning

#### Hazard Statements

H302: Harmful if swallowed.

#### Precautionary Statements

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330: Rinse mouth.

P501: Dispose of contents/container to an approved waste disposal site and according to federal, regional and local government requirements.

**Other Hazards:** No information available

### SECTION 3 Composition and Information on Ingredients

CAS No.	Chemical Name	Percent	Classification ((EC) No 1272/2008)
16919-19-0	Ammonium Hexafluorosilicate	0.6%	H301 - Acute Tox. 3 * H311 - Acute Tox. 3 * H331 - Acute Tox. 3 *
7732-18-5	Water	99-100%	Not Classified

The preparation also contains water and trace amounts (< 0.001%) of various metals and metallic salts.

### SECTION 4 First Aid Measures

#### In case of contact:

**Eye:** Flush eyes with plenty of water for at least 15 minutes, holding the eyelids open. Neutral saline may be used as soon as it is available. Do NOT interrupt flushing. If irritation persists, repeat flushing. Get medical aid if necessary.

**Skin:** Flush skin with plenty of water for at least 30 minutes while removing contaminated clothing and shoes. Do NOT interrupt flushing. Get medical aid if necessary.

**Ingestion:** For a precaution: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If symptoms develop get medical aid.

**Inhalation:** Take proper precautions to ensure your own safety before attempting rescue (e.g., wear appropriate protective equipment). If breathing, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Most important Symptoms:** No information available.

**Notes to Physician/Doctor:** Treat symptomatically and supportively.

### SECTION 5 Fire-fighting Measures

#### Fire Hazard Summary:

**Extinguishing Media:** Whichever is most appropriate for the surrounding fire. Use flooding quantities of water spray or fog.

**Extinguishing Media to be Avoided:** No data available.

**Combustion and Thermal Decomposition Products:** No data available.

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained respirator and full protective gear.

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION

Health: 1 - Exposure would cause irritation with only minor residual injury  
Flammability: 0  
Reactivity: 0

Special Hazard:

## SECTION 6 Accidental Release Measures

### Spill Precautions:

Personal precautions: Use personal protective equipment.

Protective equipment and emergency procedures: Ensure adequate ventilation. Evacuate personnel to safe areas.

### Clean-up:

SMALL SPILLS: Soak up spill with absorbent material which does not react with spilled chemical. Put material in suitable, covered, labeled containers. Flush area with large quantities of water. Contaminated absorbent material will pose the same hazards as the spilled product.

LARGE SPILLS: Evacuate area. Contact fire and emergency services and supplier for advice.

## SECTION 7 Handling and Storage

### Handling:

Use only with adequate ventilation and/or personal protective equipment. Wash thoroughly after using. Avoid contact with skin and eyes. Avoid generating vapors or mists. Avoid contact with all incompatible materials.

### Storage:

Store in a tightly closed container in a cool, well ventilated and dry area.

Store at room temperature, unless stated otherwise.

Store away from incompatible materials, heated areas, sparks, and flames.

### Additional Information:

The mixture is intended for use in a laboratory. The mixture as supplied is stable under normal laboratory conditions.

## SECTION 8 Exposure Controls and Personal Protection

### EXPOSURE GUIDELINES

NIOSH: ---

ACGIH: ---

OSHA Final PEL: ---

### Preventive Measures:

**Eye / Face protection:** Eye-wash station in proximity. Avoid contact with skin and eyes.

**Skin protection:** Wear suitable clothing and gloves. Refer to OSHA's protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Inhalation / Ventilation:** Use in a chemical fume hood.

**Personal Hygiene:** Do not eat or drink in work areas. Wash hands thoroughly after handling this material. Maintain good housekeeping. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Appropriate Engineering Controls:** Use laboratory fumehoods in case of insufficient ventilation.

## SECTION 9 Physical and Chemical Properties

### Information on basic physical and chemical properties

**Physical State** Liquid

<b>Appearance</b>	Clear / Colorless
<b>Odor</b>	Odorless
<b>Property Values</b>	
<b>pH VALUE</b>	No data available
<b>Melting Point/Range</b>	No data available
<b>Boiling Point/Range</b>	c. 100 °C
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Vapor Pressure</b>	No data available
<b>Vapor Density</b>	No data available
<b>Relative Density</b>	c. 1.001
<b>Specific Gravity</b>	No data available
<b>Water Solubility</b>	Soluble
<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

## **SECTION 10      Stability and Reactivity**

<b>Reactivity:</b>	No data available.
<b>Chemical stability:</b>	Stable at room temperature and conditions of use.
<b>Incompatible Materials:</b>	No data available
<b>Conditions to avoid:</b>	No data available
<b>Hazardous Decomposition Products:</b>	No data available
<b>Hazardous Polymerization:</b>	Do not occur

## **SECTION 11      Toxicological Information**

### **Potential Health Effects**

<b>Eye:</b>	May cause irritation of the eyes.
<b>Skin:</b>	May cause irritation of the skin.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Inhalation:</b>	None reported.

### **Effects of Short-Term (Acute) Exposure**

**LD50/LC50:**      ---

### **Effects of Long-Term (Chronic) Exposure**

<b>Respiratory or skin sensitization:</b>	No information found.
<b>Germ Cell Mutagenicity:</b>	No component of this product at levels greater than 0.1% is classified as a mutagen.
<b>Reproductive Toxicity:</b>	No component of this product at levels greater than 0.1% is classified for reproductive toxicity.

<b>STOT- Single exposure</b>	No definitive information available on target organs toxicity, single exposure.
<b>STOT- Repeated exposure</b>	No definitive information available on target organs toxicity, repeated exposure.
<b>Aspiration Hazard:</b>	No information found.
<b>Carcinogenicity:</b>	Not listed as a carcinogen by NTP, or CA Prop 65.
	Component of this preparation listed in the National Toxicology Program ARC (12th Report on carcinogens): None.
	Component of this preparation appearing in the list (June 22, 2012) of chemicals known to the state of California to cause cancer or reproductive toxicity (California Proposition 65): None.
	No evidence of cancer has been demonstrated for this product.
	<b>Signs and symptoms of exposure:</b>
<b>Skin:</b>	May cause irritation of the skin.
<b>Eye:</b>	May cause irritation of the eyes.
<b>Ingestion:</b>	May be harmful if swallowed.
<b>Inhalation:</b>	None reported.

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## **SECTION 12      Ecological Information**

**Eco- toxicity:** no information about this preparation is available.  
**Mobility in soil:** no information about this preparation is available.  
**Persistence and degradability:** no information about this preparation is available.  
**Bioaccumulative potential:** no information about this preparation is available.

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## **SECTION 13      Disposal Considerations**

**Product disposal:**  
The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, run off and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements. Contact a licensed professional waste disposal service to dispose of this material.  
Review federal, provincial and local government requirements prior to disposal. Store material for disposal as indicated in Storage Conditions.  
**Contaminated packaging:** Dispose of as unused product.

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## **SECTION 14      Transport Information**

**ADR/DOT (road):** Not Regulated As A Hazardous Material Or Dangerous Goods For Transportation By This Agency.

**ICAO/IATA (air):** Not Regulated As A Hazardous Material Or Dangerous Goods For Transportation By This Agency.

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## **SECTION 15      Regulatory Information**

**US Federal:**

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**TSCA** Not Listed on the TSCA Inventory.  
**US State:**  
**California Prop. 65** See Section 11.  
**Canada**  
**WHMIS Classifications:** D2B – Material causing other toxic effects.  
**EU**  
**Classifications:** Xn  
**Risk Phrase(s):** R22 - May be harmful if swallowed.

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**SECTION 16 Other Information**

**Revised:** 2020-06-03

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.