

# MATERIAL SAFETY DATA SHEET

## Section 1 - Product Information

Manufacturer: Marlig Industries, Inc.  
Address: 3308 Fairway Road  
Niagara Falls, Ontario L2J 3R6  
Emergency Telephone Number: (905) 374-2560  
Sales Name: Geo-Loop Conditioner  
Chemical Name: No- Sodium Silicate Solution  
Silicic acid, sodium salt

## Section 2 - Physical Data

Appearance and Odor: Viscous Liquid. Colorless to Hazy  
Specific Gravity: 1.394  
Solubility in Water: Complete  
Solids Content: 37.6  
pH (aqueous liquids only): 11.3

## Section 3 - Fire or Explosion Hazard

Flash Point (C): )  
Flammable Limits (Vapor In Air, Vol. %): ) non flammable aqueous liquid  
Fire Extinguishing Media: )  
Special Fire Fighting Procedures: )  
Unusual Fire and Explosion Hazards: )

## Section 4 - Reactivity Data

Stability: Stable  
Conditions To Avoid: Flammable Hydrogen gas may be produced  
Incompatibility (materials to avoid): On prolonged contact with metals such as aluminum,  
tin, lead and zinc  
Hazardous Decomposition Products: Gels when mixed with acid.  
Hydrogen

## Section 5 - First Aid Procedures

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

### Antidote:

If swallowed, do not induce vomiting. Give large quantities of water or milk. Never give anything by mouth to an unconscious person. Call a physician.

## **Section 6 - Preventative Measures**

Avoid contact with eyes or skin. Wash thoroughly after handling.

|                               |  |
|-------------------------------|--|
| Engineering Control:          | Not applicable.  |
| Special Shipping Information: | Not required.  |
| Environmental Hazard:         | High pH (alkalinity) of undiluted un-neutralized material is harmful to aquatic life.                                    |
| Spillage:                     | Sinks and mixes with water.<br>Small quantities (less than 100 gallons) - Mop up and flush to sewer with plenty of water |
| Water Disposal Method:        | Small quantities (less than 100 gallons) flush to sewer with plenty of water   |

## **Section 7 - Toxicological Properties**

|                            |  |
|----------------------------|--|
| Route of Entry:            |  |
| Eye Contact:               | Causes irritation.   |
| Skin Contact:              | Causes irritation.   |
| Inhalation:                | Spray mist may damage respiratory tract.   |
| Ingestion:                 | Causes irritation.   |
| Chronic Hazard:            | None known. Not listed by NIP, IARC or OSHA as a carcinogen.   |
| Exposure Limits:           | Permissible exposure limit, or ACGIH Threshold Limit Value, has not been established.<br>NSL recommended calling limit 5 mg/m <sup>3</sup> . |
| Exposure Analysis Methods: | Bubble sample through standard acid solution and titrate.  |

## **Section 8 - Hazardous Ingredients**

|                      |                                      |
|----------------------|--------------------------------------|
| Composition:         | 100% Liquid Sodium Silicate Solution |
| Cas Registry Number: | 1344-09-8                            |
| LD:                  | Oral, rats, 3.3-8.4 gm/kg.           |
| 50:                  |                                      |

Geo-Loop Conditioner: Nontoxic, Nonflammable, Liquid Closed-Loop Conditioner and Sealant

## **Section 10 - Preparation:**

|              |  |
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| Prepared By: | Gill Sorenson, Director / Marlig Industries, Inc.<br>Tom Tesselaar, President / Marlig Industries, Inc.<br>Pete Peterson / Geothermal Supply Co., Inc. |
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