

Corrosion Technologies  
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# GROUND GLUE™

## Safety Data Sheet

### 1. IDENTIFICATION

**Product Name:** GROUND GLUE™  
**Product Numbers:** 33101, 33109  
**Product Type and Use:** Soil stabilizer / Dust reduction  
**Issue Date:** 20 August 2015  
**Revision Date:** 19 June 2019  
**Revision Indicator:** NZ1.2  
**Manufacturer:** Corrosion Technologies  
2638 National Drive, Garland, TX 75041  
Telephone: 972-271-7361 Fax: 972-278-9721  
**Distributor in New Zealand:** Corrosion Control NZ  
48 Riverside Drive  
Whangarei 0112  
Northland  
New Zealand  
Tel: +64 9-438-88-00  
Email: [tom@corrosionx.org](mailto:tom@corrosionx.org)  
**Emergency Telephone:** CHEMTREC® USA (800) 424-9300  
Outside US +1 (703) 527-3887  
NZ Poison emergency no: 0800 POISON (0800 764 766)

### 2. HAZARDS IDENTIFICATION

#### Hazard Classification

##### Health Hazard(s)

Skin Corrosion/Irritation Category 2  
Eye Irritation Category 2A  
STOT-SE Category 3

##### Physical Hazard(s)

None

##### Hazard(s) not otherwise classified

None

#### Labeling

**Signal Word:**

**WARNING**

**Pictograms:**

Exclamation mark



#### Statements of Hazard

##### Hazard Statements

Causes skin and serious eye irritation  
May cause respiratory irritation

##### Precautionary Statements

Wear protective gloves, eye and face protection. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse. Avoid breathing mist or spray. Use only outdoors or in a well ventilated area. Store locked up. Dispose of contents and container in accordance with applicable regulations. If on skin: Wash with plenty of water. If skin irritation occurs: get medical attention. 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 attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Percent by Wt.
Silicic acid, sodium salt	1344-09-8	35-45*

\* Exact percentage of composition has been withheld as a trade secret

### 4. FIRST AID MEASURES

**General Advice:** Causes skin and serious eye irritation. Avoid skin and eye contact. Avoid breathing mist or spray. Keep container closed.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.

**Skin Contact:** Remove contaminated clothing. Wash with plenty of water. If skin irritation occurs: get medical attention.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: get medical attention

**Ingestion:** Do not give anything by mouth to an unconscious person. Do not induce vomiting unless advised to do so by a doctor or poison control center. Rinse mouth. Call a doctor if you feel unwell.

### 5. FIRE FIGHTING MEASURES

**Extinguishing Media:** Product does not support combustion. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Suitable:** Carbon Dioxide, Dry Chemical, and Foam

**Unsuitable:** Alcohol, Alcohol based solutions

**Fire Fighting Procedures:** As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool fire-exposed containers with water spray.

**Unusual Fire and Explosion Hazards:** Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc.

**Hazardous Combustion/ Decomposition Products:** Oxides of carbon, phosphorous, sulfur and nitrogen.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions / Protective Equipment / Emergency Procedures:** Use caution as spills may be slippery. Ensure adequate ventilation. Use personal protective equipment.

**Methods and materials for containment and cleaning up:** Small spills of one gallon or less may be flushed with plenty of water to sanitary sewer system (If permitted by local sewer regulations). Dike and contain large spills with inert absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer liquid to plastic containers. Do not store or dispense into metal containers; especially aluminum. Use clean non-sparking tools to collect absorbed material and transfer to a properly labeled container for recovery or disposal according applicable regulations.

## 7. HANDLING AND STORAGE

### HANDLING

**Precautions for Safe Handling:** Avoid skin and eye contact. Avoid breathing mist or spray. Follow all SDS/label precautions.

### STORAGE

**Conditions to avoid:** Store in a cool, dry, well-ventilated place in the original container. Keep container tightly closed when not in use. Prolonged storage above 140°F. Contact with acids will cause gelling and evolution of heat. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### EXPOSURE LIMITS

Component	ACGIH		OSHA		STEL ppm	STEL mg/m3
	TLV ppm	TLV mg/m3	PEL ppm	PEL mg/m3		
Sodium silicate	-	2**	-	-	-	-

\*\*No Occupational Exposure Limit assigned. An exposure limit of 2 mg/m3 (15 min TWA) is recommended by analogy with sodium hydroxide.

**Engineering Controls:** None required during foreseeable use conditions.

### Personal Protection

**Respiratory Protection:** None required under normal use conditions. In case of insufficient ventilation, wear a suitable NIOSH approved air purifying respirator.

**Hand / Skin Protection:** Wear impermeable gloves such as neoprene or nitrile rubber gloves. Gauntlets and apron may be worn depending on the extent of exposure.

**Eye / Face Protection:** Safety glasses with side-shields.

**General Hygiene Measures:** Avoid contact. Always wash hands and face before eating, drinking or smoking. Remove and wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Transparent	<b>Autoignition Temperature:</b>	Not applicable
<b>Physical State:</b>	Non-viscous liquid	<b>Volatile by volume (%):</b>	60
<b>Odor:</b>	Odorless	<b>Vapor Density (Air=1):</b>	1
<b>Color:</b>	Colorless	<b>Evaporation Rate (BuAc= 1):</b>	<1
<b>Viscosity, cSt @ 40°C:</b>	Not established	<b>Vapor Pressure, mmHg @23°C:</b>	21.1
<b>cSt @ 100°C:</b>	Not established	<b>Solubility in water:</b>	Complete
<b>pH:</b>	11.3	<b>Octanol/Water Partition:</b>	Not established
<b>Boiling Point/ Range:</b>	>200 °F / 93 °C	<b>VOC Content (%):</b>	0
<b>Melting Point:</b>	30 °F / -1 °C	<b>Specific Gravity @15.6 °C:</b>	1.38
<b>Flash Point:</b>	Non-flammable	<b>Pour Point:</b>	>32 °F / 0 °C
<b>Method:</b>	Not applicable	<b>Non-volatile by Volume (%):</b>	40
<b>Lower Explosive Limit, vol %:</b>	Hydrogen, 4	<b>Dielectric Strength:</b>	Not applicable
<b>Upper Explosive Limit, vol %:</b>	Hydrogen, 75		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable at ambient temperatures. Avoid prolonged storage above 140°F.

**Conditions to Avoid:** None known

**Hazardous Polymerization:** Will not occur.

**Materials to Avoid:** Acids and prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals and alloys.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

**Product Information:** Not established

### Ingredient Information

Sodium silicate: Ori-rat LD50 - 3400 mg/kg, Skn-rbt LD50 - 4640 mg/kg, lhl-Rat LC50 - >2.06 g/m3

### Acute Effects

**Signs and Symptoms of Overexposure:** Skin and eye irritation, Coughing/Sneezing

**Inhalation:** Mist may cause respiratory irritation with nasal discomfort and discharge, coughing and sneezing.

**Skin Contact:** May cause redness and itching.

**Eye Contact:** May cause tearing and redness.

**Ingestion:** May cause, nausea, vomiting and diarrhea.

**Primary Route(s) of Exposure:** Eyes, Skin, Inhalation

**Primary Route(s) of Entry:** Inhalation, Ingestion

**Target Organs:** skin, eyes, respiratory system

**Chronic Effects:** None known

**Carcinogenicity:** Not established

**Medical Conditions Aggravated by Exposure:** May aggravate existing skin, eye and respiratory conditions including asthma and dermatitis.

**12. ECOLOGICAL INFORMATION**

**Product Data:** Inhalation LC50 (Brachydanio rerio): 1108 mg/l 96 h, Aquatic invertebrate: EC50 (Daphnia magna) 1700 mg/l 48 h  
**Ingredient Data:** Not established  
**Elimination Information:** Not established

**13. DISPOSAL CONSIDERATIONS**

**Product:** Dispose of in accordance with local regulations.  
**Container:** Empty remaining contents. Empty containers should be taken for local recycling, recovery, or waste disposal.

**14. TRANSPORT INFORMATION**

**Road Transport**  
**DOT Hazard Class:** Non-Regulated  
**Sea Transport**  
**IMDG/GGV See Class:** Non-Regulated  
**Air Transport**  
**ICAO/IATA Class:** Non-Regulated

**15. REGULATORY INFORMATION**

**U.S. Federal Regulations**  
**Toxic Substances Control Act (TSCA):** All components are included on the Inventory  
**Superfund Amendments and Reauthorization Act (SARA) Title III:**

Immediate Hazard	Delayed Hazard	Fire Hazard	Pressure Hazard	Reactivity Hazard
X	-	-	-	-

**New Zealand**  
Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.  
**HSNO Approval Number:** N.O.S. (Corrosive) Group Standard 2017 – HSR002618  
**HSNO classification:** 6.1D (All), 8.2C, 8.3A, 9.3C  
Not classified as a Dangerous Good according to NZS5433:2007 Transport of Dangerous Goods on Land.  
**NZIoC (New Zealand Inventory of Chemicals):** All components are listed on the NZIoC inventory or are exempt

**16. OTHER INFORMATION**

**Prepared by:** Corrosion Technologies, Technical Services Department  
**Revision Indicator:** NZ1.2

National Fire Protection Association (704)  
Health: 2      Flammability: 0      Reactivity: 0      Other: -

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damage incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical and application of such products is the sole responsibility of the user. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the sole responsibility of the user to comply with all applicable Federal, State and Local Laws and Regulations. Any questions with regards to information contained herein should be referred to: U. S. Corrosion Technologies, LLC (972) 271-7361.