

MSDS Number: **A0002** * * * * *Effective Date: 5/23/13* * * * * * *Supercedes: N/A*

MSDS	Material Safety Data Sheet	24 Hour Emergency Telephone: (305) 441-2202 CHEMTREC: 1-800-424-9300
		National Response in Canada CANUTEC: 613-996-6666
		Outside U.S. and Canada Chemtrec: 703-527-3887
From: Terra Tech Int. Inc. 12969 N.W. 9th Terrace Miami, Florida, 33182-USA		NOTE: CHEMTREC, CANUTEC, and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals.
All non-emergency questions should be directed to our Customer Service (1-305- 441-2202) for assistance. -		

Terra Tech International, Inc.
ZumSil Standard Solution

1. Product Identification

Synonyms: Silicilic acid, Silicon dioxide, Alkali soils

CAS No.: Not applicable to mixtures.

Molecular Weight: Not applicable to mixtures.

Chemical Formula: Not applicable to mixtures.

Product Codes: Not applicable to mixtures

2. Composition/Information on Ingredients

Ingredients	CAS Number	Percentage	Hazardous
Water	7732-18-5	80 - 85%	No
Silicilic Acid in alkali soil	7699-41-4/ 7732-18-5	15 - 20%	No

3. Hazards Identification

Emergency Overview

HAZARDOUS in case of eye contact, ingestion or inhalation.

Terra Tech International SAFETY- Ratings (Provided here for your convenience)

Health Rating: 1 – Slightly hazardous, Irritant

Flammability Rating: 0 – nonflammable

Reactivity Rating: 0 - Nonreactive

Contact Rating: 0 – Non-hazardous

Lab Protective Equip: EYE PROTECTION (GOGGLES); LAB COAT or APRON;
PROPER GLOVES

Storage Color Code: White

Potential Health Effects

Inhalation:

May cause respiratory tract irritation.

Ingestion:

Ingestion is unlikely to have any toxic effects, but the product may act as an intestinal irritant.

Skin Contact:

Harmful effects are not expected from short periods of exposure. Prolonged or repeated exposure may cause irritation.

Eye Contact:

May cause eye irritation. Symptoms may include discomfort or pain, excessive blinking, and tear production.

Chronic Exposure:

Prolonged lung contact to the respiratory tract may cause irritation. Prolonged skin contact may lead to irritation. No target organ chronic effects under normal conditions of use.

Aggravation of Pre-existing Conditions:

Because of its irritating properties, dust and allergens may aggravate pre-existing eye, skin, and respiratory conditions.

4. First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Exposed persons should be kept under medical observation for 24 hours. Inhalation is not a normal route of exposure.

Ingestion:

Treat systematically. Not expected to be toxic by ingestion.

Skin Contact:

No emergency care is anticipated. Wash skin with soap and water. Remove contaminated clothing. Wash clothing before reuse. Obtain medical attention if irritation persists.

Eye Contact:

No emergency care is anticipated. Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Cold water may be used. Get medical attention if discomfort persists.

5. Fire Fighting Measures

Fire:

Flash point: > 230°F

Special Fire Fighting Instructions:

Use water spray to cool fire exposed containers and structures. Do not direct solid water stream into burning molten material, thus causing splattering and spreading of the fire.

Fire Extinguishing Media:

Powder, CO₂, dry chemical, water spray, foam.

Products of Combustion:

Small amounts of silicon oxides may be released.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Prevent entry to sewers, basements, or confined areas; dike if needed. Floors may be slippery and use care to avoid falling. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The

toll free number for the US Coast Guard National Response Center is (800) 424-8802.

7. Handling and Storage

Never use pressure to empty containers. Protect against physical damage. Store in a cool, dry well-ventilated location. Outside or detached storage is preferred. Separate from incompatibles. Containers should be bonded and grounded for transfers to avoid static sparks. Containers of this material are non-hazardous when empty.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

Not normally needed. Ventilation is not normally required. If there is a large spill, wear an appropriate organic filter mask to reduce lung irritation.

Skin Protection:

Not normally needed. Wear appropriate protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to minimize skin contact when handling large quantities.

Eye Protection:

Not normally needed. Wear appropriate chemical safety glasses or goggles and/or a full face shield where splashing is possible.

9. Physical and Chemical Properties

Appearance:

Amber liquid.

Odor:

None.

Solubility:

Soluble in water. .

Specific Gravity:

1.225

pH:

12.5.

% Volatiles by volume @ 21°C (70°F):

Not available

Boiling Point:

> 230°F.

Melting Point:

No information found.

Vapor Pressure :

N/A .

Vapor Density:

N/A

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Silicon oxides may form when burned.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Select water reactant metals.

Conditions to Avoid:

N/A.

11. Toxicological Information

Toxicological Data:

This product may cause eye irritation. This product is non-hazardous under normal conditions of use. OSHA/HMIS has listed silicon dioxide as non-hazardous under normal conditions of use.

12. Ecological Information

Environmental Fate:

This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.

Environmental Toxicity:

This product under normal dilution to drains, sewers, and treatment plants is not considered environmentally harmful.

13. Disposal Considerations

This product is considered a non-hazardous waste under RCRA, as supplied. Whatever cannot be saved for recovery or recycling should be handled as non-hazardous waste and can be sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste

management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Domestic (Land, D.O.T.)

Proper Shipping Name: Non-hazardous
Hazard Class: Non-hazardous
UN/NA: Non-hazardous
Packing Group: N/A
Information reported for product/size: 55 gal drum

International (I.M.D.G.)

Product is not regulated by IMDG.

International (Air, I.C.A.O.)

Proper Shipping Name: Non-hazardous
Hazard Class: Non-hazardous
UN/NA: N/A
Packing Group: N/A
Information reported for product/size: 5 Gallon drum

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredients	CAS Number
Water	7732-18-5
Silicilic Acid in alkali soils	7699-41-4/ 7732-18-5

This product is regulated by the Environmental Protection Administration, under the U.S. Environmental Protection Act as a non-hazardous fertilizer. The MSDS is prepared to the OSHA Hazard Communication Standard, 29CFR 1910:1200

16. Other Information

NFPA Ratings: Health: **1** Flammability: **0** Reactivity: **0**

Label Hazard Warning:

Non-hazardous.

Label Precautions:

None.

Label First Aid:

If swallowed, do not induce vomiting unless directed by medical personnel. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. In all cases call a physician.

Product Use:

Fertilizer.

Revision Information:

MSDS Section(s) changed since last revision of document include: 0.

Disclaimer:

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