



## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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- **Product name:** SODIUM SILICATE
- **Manufacturer:** Deep South Chemical, Inc.  
229 Millstone Road  
Broussard, LA 70518 (337) 837-9931
- **For Emergency : Call CHEMTREC 1-800-424-9300**  
Outside the U.S.A. (703)-527-3887
- **Chemical Family:** Soluble glass
- **Contact Person:** Glenn Ray
- **Formula:** (Na<sub>2</sub>O).(SiO<sub>2</sub>)
- **MSDS Revised:** January 1, 2014

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Sodium Silicate	1344-09-8	100	N/E	N/E	N/E	N/E	N/E

### SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

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#### Effects of overexposure

**Inhalation:** This product may cause irritation to nose, throat, and respiratory tract

**Skin Contact:** This product may cause irritation to the skin.

**Eye Contact:** Irritation to eyes.

**Ingestion:** There may be irritation of the mouth, throat, and digestive tract.

### SECTION 4. FIRST AID MEASURES

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**Eyes:** Move victim away from exposure and into fresh air. If irritation persists, seek medical attention.  
For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

**Inhalation:** Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

**Skin:** Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

**Ingestion:** Do not induce vomiting. Seek medical attention.

### SECTION 5. FIRE FIGHTING MEASURES

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#### Fire fighting measures

**Extinguishing Media:** Use water spray.

**Decomposition/Combustion Products:** Toxic fumes of sodium oxide.

#### Explosive Properties:

LEL: N/D

UEL: N/D

### SECTION 6. ACCIDENTAL RELEASE MEASURES

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**Steps to be taken if material is released or spilled:** Use proper personal protective equipment. Stay upwind from spill. For small dry spills, carefully scoop material into suitable containers for later



disposal. Vacuuming (with appropriate filter) or wet mopping may minimize dust dispersion. For small solution spills, take up with earth, sand, vermiculite, or other absorbent, noncombustible material. For large solution spills, dike far ahead of liquid spills for later disposal.

**Waste disposal method:** Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

## **SECTION 7. HANDLING AND STORAGE**

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**Storage:** Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area.

**Handling:** Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

## **SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Ventilation:** Keep work area well ventilated.

**Protective clothing:** Impermeable gloves and impervious clothing as appropriate.

**Eye protection:** Chemical goggles where splashing may occur.

**Respiratory Protection:** Use appropriate respiratory protection when handling or in case of insufficient ventilation.

**Special Protection:** Safety shower, eye bath, and washing facilities should be available.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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**Specific gravity @ 77°F(H<sub>2</sub>O = 1):** 1.4

**Flash Point(PMCC Method) (°F):** N/D

**Vapor density (Air = 1):** N/D

**Solubility:** Varying degrees

**Vapor pressure @ 68°F:** 18mmHg

**Evaporation Rate:** N/D

**Appearance:** Colorless (or nearly colorless), possible hazy liquid

**Odor:** None

**Boiling Point (°F):** 216

**Melting Point (°F):** N/D

**Viscosity:** N/E

**pH:** 11-12.5

**Auto-ignition:** N/D

## **SECTION 10. STABILITY AND REACTIVITY**

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**Stability and Reactivity:** Stable in normal conditions.

**Incompatible Materials:** Fluorine, mineral acids, organic acids, organic materials. May produce hydrogen gas on prolonged contact with metals. Gels when mixed with acids.

**Hazardous Decomposition Products:** No Data

**Hazardous Polymerization:** None described.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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No Data

## **SECTION 12. ECOLOGICAL INFORMATION**

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No Data

## **SECTION 13. DISPOSAL CONSIDERATIONS**

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**Disposal:** If spilled, dispose according to local, state, and federal regulations. Recycle waste containers and clean out residues.



**SECTION 14. TRANSPORT INFORMATION**

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**DOT Transport Information: Non-Regulated**

**SECTION 15. REGULATORY INFORMATION**

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**Toxic Substances Control Act (TCSA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CERCLA RQ-40 CFR 302.4(a)**

Component

None

CERCLA RQ

**SARA 302 Components-40 CFR 355 Appendix A**

None

**Section 311/312 Hazard Class-40 CFR 370.2**

**Immediate (X)**

**Delayed (X)**

**Fire ( )**

**Reactive ( )**

**Sudden Release of Pressure ( )**

**SARA 313-40 CFR 372.65**

Component

None

CAS Number

%

**SECTION 16. OTHER INFORMATION**

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**NFPA RATING: Health (3) Fire (0) Reactivity (0)**

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N/D= No data; N/A = Not available; N/E= Not established