



# SAFETY DATA SHEET

## 1. Identification

<b>Product Identifier</b>	<b>Sodium Silicate Densifier RTU</b>	
<b>Other means of identification</b>		
<b>Product code</b>	CU-2570	
<b>Recommended use</b>	Sodium silicate densifier for concrete.	
<b>Recommended restrictions</b>	Professional use only.	
<b>Manufacturer information</b>		
<b>Company name</b>	Chemical Universe, Inc.	
<b>Address</b>	1133 Saline St North Kansas City MO 64116	
<b>Telephone</b>	(816) 471-3602	
<b>FAX</b>	(816) 474-3302	
<b>Emergency phone number</b>	PERS	(800) 633-8253
	24 hour Emergency	(800) 633-8253

## 2. Hazard(s) Identification

<b>Physical hazards</b>	Not classified	
<b>Health hazards</b>	Skin irritation	Category 2
	Eye irritation	Category 2A
<b>Environmental hazards</b>	Not classified	
<b>OSHA defined hazards</b>	Not listed	
<b>Label elements</b>		

<b>Signal word</b>	Warning	
<b>Hazard statement</b>	Causes skin irritation Causes serious eye irritation	
<b>Precautionary statement</b>		
<b>Prevention</b>	Wash hands and exposed skin thoroughly after handling. Wear protective gloves. Wear eye protection/face protection.	
<b>Response</b>	IF ON SKIN: Wash with plenty of water. Specific treatment (see section 5 of the SDS). If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. 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 advice/attention.	
<b>Storage</b>		
<b>Disposal</b>		
<b>Hazard(s) not otherwise classified (HNOC)</b>	None	
<b>Supplemental information</b>	None	

## 3. Composition/information on ingredients

### Mixtures

Chemical name	CAS number	%
Sodium Silicate	1344-09-8	10-15
Other components below reportable levels		80-100

## 4. First-aid measures

<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.
<b>Eye contact</b>	Rinse with water for at least 15 minutes. Remove contact lenses if present and easy to do. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting.
<b>Most important symptoms/effects, acute and delayed</b>	Dermatitis. Rash. Causes skin irritation and serious eye irritation.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general support measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> )
<b>Unsuitable extinguishing media</b>	None known
<b>Specific hazards arising from the chemical</b>	During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protecting clothing must be worn in case of fire.
<b>Fire-fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up. Wear eye/face protection.
<b>Methods and materials for containment and cleaning up</b>	Caution – spillages may be slippery  Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas.  Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original container for re-use. For waste disposal, see section 13 of the SDS.
<b>Environmental precautions</b>	Avoid discharge into areas not consistent with package labeling.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage,</b>	Store in original tightly closed container. Do not store in extreme conditions.

including any  
incompatibilities

## 8. Exposure controls/personal protection

### Occupational exposure limits

None established

### Biological limit values

None established

### Appropriate engineering controls

Emergency eye wash stations and showers should be readily accessible. Provide natural or mechanical ventilation.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves

##### Other

Wear long sleeve shirts with pants.

#### Respiratory protection

Respiratory protection not required.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

When using do not smoke or use chewing tobacco. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

## 9. Physical and chemical properties

### Appearance

#### Physical State

Clear liquid.

#### Color

Colorless.

#### Odor

Characteristic.

#### Odor threshold

Not available.

#### pH

10.5-11.4

#### Melting/freezing point

Not available.

#### Initial boiling point and boiling range

212°F (100°C)

#### Flash point

Does not flash.

#### Evaporation rate

Not available.

#### Flammability

Not available.

#### Flammability Limits

##### Upper

Not available.

##### Lower

Not available.

#### Vapor pressure

Not available.

#### Vapor density

Not available.

#### Specific gravity

1.03

#### Solubility in water

Soluble

#### Partition coefficient (n-octanol/water)

Not available.

#### Auto-ignition temperature

Not available.

#### Decomposition temperature

>392°F (200°C)

Viscosity Not available.

## 10. Stability and reactivity

**Reactivity** This product is stable and non-reactive under normal conditions of use.  
**Chemical stability** Material is stable under normal conditions.  
**Possibility of hazardous reactions** Hazardous polymerization does not occur.  
**Conditions to avoid** Heat, flames.  
**Incompatible materials** Reactive metals (e.g. sodium, calcium, zinc) strong acids, oxidizing agents.  
**Hazardous decomposition products** Carbon monoxide, carbon dioxide.

## 11. Toxicological information

### Information on likely routes of exposure

**Ingestion** Lithium compounds may damage central nervous system resulting in headache and nausea.  
**Inhalation** Mist is irritant to respiratory tract.  
**Skin contact** Repeated and/or prolonged skin contact causes skin irritation.  
**Eye contact** Liquid or mist causes serious eye irritation.  
**Symptoms related to the physical, chemical and toxicological characteristics** Dermatitis. Rash. May cause an allergic skin reaction, skin irritation, serious eye irritation.  
**Acute toxicity** Causes skin irritation and serious eye irritation.

Product	Route and Species	LD <sub>50</sub>
Sodium Silicate Densifier RTU (CAS mixture)		
<b>Acute</b>	<i>Oral, rat</i>	>5,000 mg/kg estimated
	<i>Dermal, rat</i>	>5,000 mg/kg estimated

\*Estimates for product may be based on additional component data not shown

**Skin corrosion/irritation** Causes skin irritation.  
**Serious eye damage/irritation** Causes serious eye irritation  
**Respiratory sensitization** Not classified.  
**Skin sensitization** Not classified.  
**Germ cell mutagenicity** Not classified.  
**Carcinogenicity** Not considered a carcinogen.  
**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not Listed.  
**Reproductive toxicity** Not classified.  
**Specific target organ toxicity – single exposure** Not classified.  
**Specific target organ toxicity – repeated exposure** Not classified.  
**Aspiration hazard** Not considered an aspiration hazard.

## 12. Ecological information

### Ecotoxicity

Product	Species	Test Results
Sodium Silicate Densifier RTU (CAS mixture)		
<b>Aquatic</b>		
Crustacea	Daphnia magna	EC <sub>50</sub> (48hr): >10,000 mg/L estimated

\*Estimates for product may be based on additional component data not shown

<b>Persistence and degradability</b>	Soluble silicates: upon dilution, rapidly depolymerise into molecular species indistinguishable from natural dissolved silica.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	Not available
<b>Other adverse effects</b>	The alkalinity of this material may have a local effect on ecosystems sensitive to changes in pH.

## 13. Disposal considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations
<b>Waste from residues/unused product</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner. (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may contain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

## 15. Regulatory information

### US federal regulations

#### SARA 302 Extremely hazardous substance

Not listed.

#### SARA 304 Emergency release notification

Not listed.

#### SARA 311/312 Hazard Categories

Immediate Hazard - Yes

Delayed Hazard – No

Fire Hazard – No

Pressure Hazard – No

Reactivity Hazard – No

#### SARA 313 (TRI reporting)

Not listed.

## 16. Other information, including date of preparation or last revision

<b>Issue date</b>	5/26/2015
<b>Revision date</b>	5/26/2015
<b>Version #</b>	1
<b>HMIS® ratings</b>	Health: 1 Flammability: 0 Physical hazard: 0
<b>NFPA ratings</b>	Health: 1 Flammability: 0 Instability: 0
<b>Disclaimer</b>	The information provided in this Safety Data Sheet is correct to the best of our knowledge, and have been obtained from resources believed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information related only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified by the text.
<b>Revision information</b>	First issue