## SAFETY DATA SHEET



# **SECTION 1. IDENTIFICATION**

**GHS PRODUCT IDENTIFIER:** Alchemco Sodium Silicates OTHER MEANS OF IDENTIFICATION: DuraTite®Concrete Hardener

**PRODUCT TYPE:** Penetrating Liquid Waterproofing Agent

**IDENTIFIED USES:** Sealant

Alchemco, A division of MBC North America, Inc

**SUPPLIER / MANUFACTURER:** 3532 Mayland Ct., Henrico, VA 23233

800-610-2895

**EMERGENCY TELEPHONE NUMBER** 

800-610-2895 24 hours WITH HOURS OF OPERATION

# SECTION 2. HAZARDS IDENTIFICATION

**GHS LABEL ELEMENTS** 

**HAZARD PICTOGRAMS:** 







SIGNAL WORD: WARNING

Acute toxicity-Oral: Category 4 H302: Harmful if Swallowed HAZARD STATEMENTS: H315: Causes Skin Irritation

> H320: Causes Eye Irritation H335: May Cause Respiratory Irritation

**PRECAUTIONARY STATEMENTS** 

P260 Do not breathe dust/fumes/gas/mist/vapours/spray.

P262 Do not get in eyes, on skin, or on clothing.

P264 Wash contaminated skin thoroughly after handling. PREVENTION:

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective cloting/eye protection/face protection.

P301+P312 IF SWALLOWED: Call POISON CENTER or doctor/physician. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P330 Rinse mouth.

**RESPONSE:** P333 If skin irritation or rash occurs consult with a physician.

P337 If eye irritation persists consult with a physician.

P340 Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

P353 Rinse skin with water/shower.

P361 Remove/Take off immediately all contaminated clothing.



ETY DATA SHEET

P235: Keep Cool.

P402: Store in a dry place.

**STORAGE**: P403: Store in a well-ventilated place.

P404: Store in a closed container.

P405: Store locked up.

DISPOSAL: P501: Dispose of contents/container according to local, state and

federal regulations.

HAZARDS NOT OTHERWISE CLASSIFIED

(NHOC):

## SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: Sodium Silicate

CAS NUMBER/OTHER IDENTIFIERS CAS # 1344-09-8

INGREDIENT	CAS #	%		
Sodium Silicate	1344-09-8	5-60%		

Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.

# **SECTION 4. FIRST AID MEASURES**

### **DESCRIPTION OF NECESSARY FIRST AID MEASURES**

**EYE CONTACT:** Remove contact lenses, and rinse thoroughly with plenty of water for at least 15

minutes, lifting lower and upper eyelids. Consult a physician.

**INHALATION:** Move affected person to fresh air at once.

SKIN CONTACT: Wash off immediately and flush with plenty of fresh water for 15 minutes.

Remove contaminated clothing and wash before re-use.

INGESTION: If swallowed call a POISON CONTROL CENTER. Rinse mouth. Drink 1 or 2 glasses of

water. Consult a physician. Strong alkaline irritant.

## MOST IMPORTANT SYMPTOMS. EFFECTS, ACUTE AND DELAYED POTENTIAL ACUTE HEALTH EFFECTS

EYE CONTACT: Pain, redness and tearing.

INHALATION: Sneezing, burning or itching in nose and throat. Coughing, wheezing, shortness

of breath.

SKIN CONTACT: Itching or burning. Redness. Dries to form a glass film which can cut skin.

Causes irritation of gastrointestinal tract. Symptoms may include nausea, vom-

INGESTION: iting, and diarrhea. May cause burns to lips, tongue, oral mucosa, upper airway,

esophagus, and stomach.

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

CHRONIC: NA

**OVER-EXPOSURE SIGNS/SYMPTOMS** 

EYE CONTACT: NA
INHALATION: NA
SKIN CONTACT: NA
INGESTION: NA

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### **DELAYED EFFECTS FROM LONG TERM EXPOSURE**

### INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES PHYSICIAN: Treat symptomatically. If in doubt, get medical attention promptly.

SPECIFIC TREATMENTS: NA

PROTECTION OF FIRST-AIDERS: Floor and other surfaces may be slippery. Ventilate area of leak or spill. Wear

PPE as specified in Section 8.

# SECTION 5. FIRE-FIGHTING MEASURES

### **EXTINGUISHING MEDIA**

SUITABLE EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

UNSUITABLE EXTINGUISHING MEDIA: None known.

SPECIFIC HAZARDS ARISING FROM THE

HEMICAL: None known.

HAZARDOUS THERMAL DECOMPOSITION

PRODUCTS: None known.

SPECIAL PROTECTIVE ACTIONS FOR As in any fire, wear self-contained breathing apparatus pressure-demand,

FIRE-FIGHTERS: MSHA/NIOSH (approved or equivalent) and full protective gear.

SPECIAL PROTECTIVE EQUIPMENT FOR As in any fire, wear self-contained breathing apparatus pressure-demand,

FIRE-FIGHTERS: MSHA/NIOSH (approved or equivalent) and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Caution! Floor and other surfaces may be slippery. Ventilate area of leak or spill.

# SECTION 6. ACCIDENTAL RELEASE MEASURES

### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL: Wear protective clothing as described in Section 8 of this Safety Data Sheet.

FOR EMERGENCY RESPONDERS: Follow all fire fighting procedures in Section 5.

ENVIRONMENTAL PRECAUTIONS: See Section 13: DISPOSAL CONSIDERATIONS. See Section 12 for additional

Ecological Information.

### METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

SMALL SPILL: Contain and prevent further leakage or spillage if safe to do so.

For large quantities, collect liquid in an appropriate container or absorb with an inert material (eg: vermiculite, dry sand, earth) and place in a chemical waste

container. Do not use combustible material such as saw dust. Do not flush to

sewer.

## SECTION 7. HANDLING AND STORAGE

## PRECAUTIONS FOR SAFE HANDLING

Avoid spilling and splashing. Avoid contact with skin and eyes. Wear protective clothing, goggles, or face shield and gloves as described in Section 8 of SDS.

Do not eat, drink or smoke while using this product. Wash face, hands and any

exposed skin thoroughly after handling.

ADVICE ON GENERAL OCCUPATIONAL

HYGIENE:

CONDITIONS FOR SAFE STORAGE Keep containers tightly closed. Store in a dry, cool and well-ventilated place. INCLUDING ANY INCOMPATIBILITIES: Gels when mixed with acid.

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# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### **CONTROL PARAMETERS**

### **OCCUPATIONAL EXPOSURE LIMITS**

EXPOSURE GUIDELINES: Airborne exposure limits: OSHA PEL: 80mg (%SiO2)/m³ (TWA).

APPROPRIATE ENGINEERING CONTROLS: Showers. Eyewash stations. Ensure adequate ventilation, especially in confined

areas.

**ENVIRONMENTAL EXPOSURE CONTROLS: NA** 

**INDIVIDUAL PROTECTION MEASURES** 

HYGIENE MEASURES: Do not eat, drink or smoke while using this product.

**EYE/FACE PROTECTION:** Goggles or face shield. Refer to 29 CFR 1910.133 for eye and face protection

regulations.

SKIN AND BODY PROTECTION: Risk of contact: Wear protective gloves. Refer to 29 CFR 1910.138 for appropri-

ate skin and body protection.

RESPIRATORY PROTECTION: NIOSH/OSHA approved dust, fume and mist respirator. Refer to 29 CFR

1910.134 for respiratory protection requirements.

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

APPEARANCE Colorless or slightly hazy liquid

PHYSICAL STATE: Liquid

**ODOR:** None

ODOR THRESHOLD: NA

PH: 11-12.5

MELTING POINT: NA
BOILING POINT: NA

FLASH POINT: No true flash.

**EVAPORATION RATE: NA** 

FLAMMABILITY (SOLID, GAS): NA

LOWER AND UPPER EXPLOSIVE: NA

VAPOR PRESSURE: NA

VAPOR DENSITY: NA

SPECIFIC GRAVITY: 1.3-1.5

**SOLUBILITY:** Completely soluble.

PARTITION COEFFICIENT

N-OCTANOL/WATER: INF

AUTO-IGNITION TEMPERATURE: NA

**DECOMPOSITION TEMPERATURE: NA** 

VISCOSITY: NA

**VOLATILITY: NA** 

# SECTION 10. STABILITY AND REACTIVITY

**REACTIVITY:** Not reactive under normal conditions.

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SAFETY DATA SHEET



CHEMICAL STABILITY: Stable under recommended storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: None under normal processing.

CONDITIONS TO AVOID: Flammable hydrogen gas may be produced on prolonged contact with metals

such as aluminum, tin, lead and zinc.

INCOMPATIBLE MATERIALS: Gels when mixed with acid. Fluorine, mineral acids, organic acids, organic ma-

terials.

HAZARDOUS DECOMPOSITION

PRODUCTS: NA

HAZARDOUS POLYMERIZATION: NA

# SECTION 11. TOXICOLOGICAL INFORMATION

### **INFORMATION ON TOXICOLOGICAL EFFECTS**

### **ACUTE TOXICITY**

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
Sodium Silicate	LD50 Oral LD50 Dermal	Rat Rabbit	1960 mg/kg >4640 mg/kg	-

#### IRRITATION/CORROSION

SENSITIZATION: NA

CLASSIFICATION: NA

SPECIFIC TARGET ORGAN TOXICITY NA

(SINGLE EXPOSURE):

SPECIFIC TARGET ORGAN TOXICITY

(REPEATED EXPOSURE): NA

ASPIRATION HAZARD: NA

INFORMATION ON THE LIKELY ROUTES OF

EXPOSURE: Dermal contact. Eye contact. Inhalation. Ingestion.

### **POTENTIAL ACUTE HEALTH EFFECTS**

**EYE CONTACT:** Avoid contact with eyes.

**INHALATION:** Do not inhale.

SKIN CONTACT: Avoid contact with skin.

INGESTION: Harmful if swallowed.

## SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

EYE CONTACT: See section 4 of this SDS for symptoms.

INHALATION: See section 4 of this SDS for symptoms.

SKIN CONTACT: See section 4 of this SDS for symptoms.

**INGESTION:** See section 4 of this SDS for symptoms.

#### DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONGER TERM EXPOSURE

## **SHORT TERM EXPOSURE**

POTENTIAL IMMEDIATE EFFECTS: NA POTENTIAL DELAYED EFFECTS: NA

## **LONG TERM EXPOSURE**

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POTENTIAL IMMEDIATE EFFECTS: NA

POTENTIAL DELAYED EFFECTS: NA

**POTENTIAL CHRONIC HEALTH EFFECTS** 

**GENERAL: NA** 

CARCINOGENICITY: Based on the information provided, this product does not contain any carcino-

gens or potential carcinogens as listed by OSHA, IARC or NTP.

MUTAGENICITY: NA

TERATOGENICITY: NA

**DEVELOPMENTAL EFFECTS: NA** 

FERTILITY EFFECTS: NA

#### **NUMERICAL MEASURES OF TOXICITY**

**ACUTE TOXICITY ESTIMATES** 

# **SECTION 12. ECOLOGICAL INFORMATION**

#### **ECOTOXICITY**

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	TOXICITY TO MICROORGANISMS	CRUSTEACEA
Sodium Silicate 13870-28-5		210: 96 h Brachydanio rerio mg/L LC50	-	1000: 24 h Daphnia magna mg/L EC50

PERSISTENCE AND DEGRADABILITY: Not determined.

BIOACCUMULATIVE POTENTIAL: Not determined.

MOBILITY IN SOIL

SOIL/WATER PARTITION COEFFICIENT (Koc): 1

Not determined.

OTHER ADVERSE EFFECTS: Not determined.

# SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Disposal should be in accordance with applicable local, state and

federal regulations.

## SECTION 14. TRANSPORTATION INFORMATION

### **U.S. DOT (Domestic Surface)**

	DOT	IMDG	IATA
UN Number	Not regulated.	Not regulated.	Not regulated.
UN Proper Shipping Name	NA	NA	NA
Transport Hazard Class(es)	NA	NA	NA
Packing Group	NA	NA	NA
Environmental Hazards	NO	NO	NO
Additional Information			

NOTE: Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

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# **SECTION 15. REGULATORY INFORMATION**

## **INTERNATIONAL INVENTORIES:**

CHEMICAL NAME	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Sodium Silicate	Present	Х		Present		Present	Х	Present	Х	Х

#### **LEGEND:**

TSCA	United States Toxic Substances Control Act Section 8(b) Inventory			
DSL/NDSL	Canadian Domestic Substances List/Non-Domestic Substances List			
EINECS/ELINCS	European Inventory of Existing Chemical Substances/ European List of Notified Chemical Substances			
ENCS	Japan Existing and New Chemical Substances			
IECSC	China Inventory of Existing Chemical Substances			
KECL	Korean Existing and Evaluated Chemical Substances			
PICCS	Philippines Inventory of Chemicals and Chemical Substances			
AICS	Australian Inventory of Chemical Substances			

**U.S. FEDERAL REGULATIONS:** 

TSCA (TOXIC SUBSTANCE CONTROL ACT):

CLEAN AIR ACT SETION 112(B) HAZARDOUS
AIR POLLUTANTS

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCE:

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES:

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS):

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS

**SARA 311/312** 

COMPOSITION/INFORMATION ON INGREDIENTS

**SARA 313** 

COMPOSITION/INFORMATION ON INGREDIENTS

**STATE REGULATIONS** 

MASSACHUSETTS: NA

**NEW YORK:** NA

**NEW JERSEY:** NA

PENNSYLVANIA: NA

CALIFORNIA PROP. 65 NA

# **SECTION 16. OTHER INFORMATION**

**HISTORY** 

DATE OF ISSUE MM/DD/YYYY: 02/12/2019

VERSION: 1

SUPERCEDES DATE MM/DD/YYYY: NA

PREPARED BY: Alchemco, Inc. 800-610-1895.

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ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service (Division of American Chemical Society)

DNEL = Derived No Effect Level

DOT = U.S. Department of Transportation

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

HMIS = Hazardous Materials Identification System IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LC50 = Lethal Concentrate, 50 percent LD50 = Lethal Dose, 50 percent

**KEY ABBREVIATIONS:** 

LogPow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NIOSH = National Institute for Occupational Safety and Health

NPFA = National Fire Protection Association

OSHA = Occupational Safety and Health Administration

PBT = Persistant, Bioaccumulative, and toxic

PEL = Permissable Limit Value REL = Recommended Exposure Limit

TLV = Threshold Limit Value TWA = Time Weighted Average

UN = United Nations

vPvB = Very Persistant and Very Bioaccumulative

WEL = Workplace Exposure Limit

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