

SAFETY DATA SHEET



SECTION 1. IDENTIFICATION

GHS PRODUCT IDENTIFIER: Alchemco Sodium Silicates

OTHER MEANS OF IDENTIFICATION: BridgeDECK[®] Waterproofing Agent

BridgeDeck ProTectant Plus, ProTectant, CorrosionBlok

PRODUCT CODE: BD-W005, BD-W055, BD-PP005, BD-PP055,
BD-P005, BD-P055, BD-CI005, BD-CI055

PRODUCT TYPE: Penetrating Liquid Waterproofing Agent

IDENTIFIED USES: Sealant

SUPPLIER / MANUFACTURER: Alchemco, A division of MBC North America, Inc
3532 Mayland CT, Henrico, VA 23233
800-610-2895

EMERGENCY TELEPHONE NUMBER WITH HOURS OF OPERATION 800-610-2895 24 hours

SECTION 2. HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS:



SIGNAL WORD: WARNING

HAZARD STATEMENTS: Acute toxicity-Oral: Category 4
H302: Harmful if Swallowed
H315: Causes Skin Irritation
H320: Causes Eye Irritation
H335: May Cause Respiratory Irritation

PRECAUTIONARY STATEMENTS

PREVENTION: 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.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE: 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.
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.

SAFETY 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): NA

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%
Water	7732-18-5	5-40%

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.
INGESTION: Causes irritation of gastrointestinal tract. Symptoms may include nausea, vomiting, 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 CHEMICAL: None known.
- HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:
- SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: As in any fire, wear self-contained breathing apparatus pressure-demand, 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.
- LARGE SPILL: 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

- PROTECTIVE MEASURES: 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: NA
- CONDITIONS FOR SAFE STORAGE INCLUDING ANY INCOMPATIBILITIES: Keep containers tightly closed. Store in a dry, cool and well-ventilated place. 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 appropriate 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:** NA

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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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 materials.

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 (SINGLE EXPOSURE): NA

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

POTENTIAL IMMEDIATE EFFECTS: NA

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POTENTIAL DELAYED EFFECTS: NA

POTENTIAL CHRONIC HEALTH EFFECTS

GENERAL: NA

CARCINOGENICITY: Based on the information provided, this product does not contain any carcinogens 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	CRUSTACEA
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 (K_{oc}): 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	X		Present		Present	X	Present	X	X

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 SECTION 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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KEY ABBREVIATIONS:

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
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 = Persistent, Bioaccumulative, and toxic
PEL = Permissible Limit Value
REL = Recommended Exposure Limit
TLV = Threshold Limit Value
TWA = Time Weighted Average
UN = United Nations
vPvB = Very Persistent and Very Bioaccumulative
WEL = Workplace Exposure Limit

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