MATERIAL SAFETY DATA SHEET

1-. IDENTIFICATION OF THE SUBSTANCE AND THE MANUFACTURER COMPANY

PRODUCT LABEL NAME: Sodium Silicate Solution
COMMERCIAL NAMES: Sodium Silicate Solution; Soluble Glass.
SUPPLIER: GLASSVEN, C.A.
P.O BOX 246 LA VICTORIA ESTADO ARAGUA VENEZUELA.
BUSINESS TELEPHONE: +58 244 321 23 53.
EMERGENCY TELEPHONE: + 58 + 244 + 322 37 47 FAX 58 + 244 + 322 36 07

2-. COMPOSITION/ INFORMATION ON INGREDIENTS

CHEMICAL DESCRIPTION: Sodium Silicate Solution
COMPOSITION: SiO₂ and Na₂O
OTHER INFORMATION: SODIUM SILICATE: CAS NUMBER 1344-09-8

3-. HAZARDS IDENTIFICATION

CRITICAL HAZARDS: Clear, odorless, thick liquid, that causes eye, skin and digestive tract irritation. High pH is harmful to aquatic life. Spills are slippery. Reacts with acids, ammonium salts, reactive metals and some organic.

EYE CONTACT: Causes Irritation.
SKIN CONTACT: Causes Irritation.
INHALATION: Spray mist irritating to respiratory tract.
INGESTION: May cause irritation to mouth, esophagus, and stomach. Large doses are harmful.

PHYSICAL HAZARDS: Dries to form glass film, which can cut skin. Spilled material is very slippery.

4-. FIRST AID MEASURES

FIRST AIDS
EYES CONTACT: Wash immediately with water thoroughly with plenty of water at least for 15 minutes. Get medical attention when necessary.
SKIN CONTACT: If skin contact occurs, washes immediately affected parts with plenty water. Remove contaminated clothing and shoes. Get medical attention when necessary.
INGESTION: If large quantities of this material are swallowed, get medical attention immediately. Do not induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.
INHALATION: Move to a fresh air place. If not breathing, give artificial respiration, if breathing is difficult give oxygen. Get medical attention when necessary.

5-. FIRE – FIGHTING MEASURES

INFLAMABILITY AND REACTIVITY LIMITS: This product is a non-combustible; Reacts with acids, ammonium salts, aluminum, copper, tin, zinc and some organic.
EXTINGUISHED MEDIA: This product is compatible with all extinguished form.
INFLAMABILTY IN AIR % IN VOL. DECOMPOSITION: Not applicable.
PROTECTIVE EQUIPMENT: Flammable Hydrogen gas, on contact with aluminum, tin, lead, and zinc. Use safety glasses with side shields or chemical goggles, body covering clothing, chemical resistant gloves and rubber boots.

6-. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear safety goggles, body-covering clothing, chemical and abrasion
resistant gloves.

**ENVIRONMENTAL PRECAUTIONS**

Sinks and mixes with water. High pH is harmful to aquatic life. Only water will evaporate from a spill of this material. Present low toxicity: 96h LD50:500-500mg/l; TLm (MOSQUITO)= 2320mg/l

**METHODS FOR CLEARING UP AND COLLECTING**

Collect as much as possible in a clean and close container to avoid evaporation. Use the protective personal equipment. Keep unnecessary people away; Do not touch or walk through spilled material. Isolate, dike and store discharged material, if possible. Neutralize contaminated area and flush with large quantities of water. Comply with applicable environmental regulations.

**7.- HANDLING AND STORAGE**

**HANDLING**

Avoid contact with eyes, skin and clothing. Avoid also breathing spray mist. Keep containers closed. Employees who handle this material should be trained to handle it safely. Promptly clean residue from closures with cloth get wet with water. Promptly clean up spills.

**STORAGE REQUIREMENTS**

Keep containers closed. Store in clean steel or plastic containers. Store away from incompatible materials. Keep container tightly closed when not in use. Storage temperatures 0-95ºC. Do not store in aluminum, fiberglass, copper, brass, zinc or galvanized containers.

**8.- EXPOSURE CONTROLS/PERSORAL PROTECTION**

**TECHNICAL CONTROLS**

Use with adequate ventilation, to remove any mist or spray that is generated. Keep container tightly closed when not in use. Safety shower and eyewash station should be within direct access.

**RESPIRATORY PROTECTION**

Use appropriate respiratory protection where dust hazard may occur. Use protection authorized and presented in OSHA 29 cfr 1910.134.

**SKIN PROTECTION**

Wear body covering protective clothing and gloves. Wear chemical goggles.

**9.- PHYSICAL AND CHEMICALS PROPERTIES**

**APPEARANCE**

Thick liquid

**COLOR**

Clear and colorless.

**ODOR**

Odorless

**AUTOIGNITION TEMPERATURE**

Not applicable

**EXPLOSIVE PROPERTIES**

100ºC

**VAPOR PRESSURE**

24mmHg (25ºC)

**EXPLOSION LIMITS**

Not applicable

**SPECIFIC GRAVITY (H2O=1)**

1.35-1.60

**STEAM DENSITY (Air=1)**

Vapor or Water

**% VOLATILITY / VOLUME**

Not applicable

**MELTING POINT ºC**

0ºC

**SOLUBILITY IN WATER % IN WEIGHT**

100%

**pH(1 % in aqueous susp)**

11.0-12.2

**EVAPORATION RATE BUTYL ACETATE 1**

Not applicable

**10.- STABILITY AND REACTIVITY**

**STABILITY**

Stable under all conditions of use and storage.

**INCOMPATIBILITIES**

Reacts with acids, ammonium salts, aluminum, copper, tin, zinc and some organic compounds.

**HAZARDOUS DECOMPOSITION**

Gel and generates heat when mixed with acid. May react with ammonium salts solutions resulting in evolution of
ammonia gas. Flammable hydrogen gas may be reduced on contact with aluminum, tin, lead, and zinc when damp or wet.

HAZARDOUS DECOMPOSITION PRODUCTS

Hydrogen gas which may be produce on contact with aluminum, tin, lead, an zinc.

Hazardous Decomposition Products

11-. TOXICOLOGICAL INFORMATION

This product components are not found on the following lists: u.s. federal osha z list, ntp, iarc, and cal/osha and therefore are neither considered to be nor suspected to be cancer-causing agents by these agencies.

MUTAGENECITY, EMBRYOTOXICITY AND TERATOGENICITY AND REPRODUCTIVE TOXICITY

This product is not reported to produce mutagenic, embryotoxic, and teratogenic effects in humans. This product is not reported to cause reproductive effects in humans.

SENSITISATION INFORMATION

The components of this product are not known to be sensitisers with repeated or prolonged use.

12-. ECOLOGICAL INFORMATION

ECTOTOXICITY DATA

The following data is reported for sodium silicates on a 100% solid basis on; TLM (MOSQUITO FISH) = 2320 ppm/96hr, TLM(GAMBUSA AFFINIS)= 2320 ppm/96h; TLM(DAPHNIA MAGNA)= 247 ppm/96h, TLM(LYMNEA)=632 ppm/96h; TLM(AMPHIPODA)= 160ppm/96h.

ENVIRONMENTAL FATE STABILITY

This material is not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life. Sinks and mixes in water. Only water will evaporate from this material.

13-. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL

Neutralize with very dilute acid and dispose residual waste in accordance with federal, state and local regulations. Wash neutralized liquid wit plenty water to the waterways.

DISPOSAL METHOD

In accordance with federal, state and local regulations.

14-. TRANSPORT INFORMATION

LAND
ADR CLASS: Not Restricted
RID CLASS: Not Restricted
HAZARD IDENTIFICATION Nº: Not Relevant
TREM-CARD: Not Relevant
PROPER SHIPPING NAME: Not Relevant
ADR ITEM NUMBER: Not Relevant
RID ITEM NUMBER: Not Relevant
SUBSTANCE IDENTIFICATION Nº: Not Relevant

SEA
IMO/IMDG CODE Not Limited
PACKING GROUP: Not Relevant
EMS: Not Relevant
MARINE POLLUTANT: Not Relevant
PROPER SHIPPING NAME: Not Relevant

AIR
ICAO-TI/ IATA-DGR CLASS: Not Restricted
UN NUMBER: None
PROPER SHIPPING NAME: Not Relevant

### 15. REGULATORY INFORMATION

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<thead>
<tr>
<th>SYMBOLS AND PHRASES INFORMATION</th>
<th>Sodium Silicate Solution.</th>
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</thead>
<tbody>
<tr>
<td>SYMBOLS</td>
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<tr>
<td>RISK PHRASES</td>
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<tr>
<td>SAFETY PHRASES</td>
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### 16. OTHER INFORMATION

This information only concerns the above-mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty point its remains the user’s own responsibility to make sure that the information is appropriated and complete for his special use of this product.

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Mercaglass@cantv.net
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