STERLING WATER TECHNOLOGIES LLC
SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: DC-22L

Recommended use of the chemical and restrictions on use: Use as water treatment chemical.

Manufacturer: Sterling Water Technologies LLC
902 S High St
Columbia, TN 38401
Telephone: (800) 426-2428

Emergency Phone: CHEMTREC: (800) 424-9300

SDS Date of Preparation: 11/5/15

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical	Health	Environment
Not Hazardous	Eye Damage Category 1 Skin Corrosion Category 1	Not Hazardous

GHS Label Elements:
Danger!

Contains: Sodium Silicate

Statements of Hazard

H314 Causes severe skin burns and eye damage.

Precautionary Phrases

P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection and face protection.
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.
P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water or shower.
P310 Immediately call a POISON CENTER or doctor.
P363 Wash contaminated clothing before reuse.
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.
P310 Immediately call a POISON CENTER or doctor.
P304+P340 IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Water	7732-18-5	62-75%
Sililic acid, sodium salt (2.6 < MR <= 3.2)	1344-09-8	20-30%
Sodium Hexametaphosphate	68915-31-1	5-10%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush victim's eyes with large quantities of water for at least 30 minutes, while holding the eyelids apart. Get immediate medical attention.
Skin: Immediately remove contaminated clothing and wash skin thoroughly with soap and water for at least 20 minutes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes).
Ingestion: Do not induce vomiting unless directed to do so by a medical professional. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.
Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Most important Symptoms: May cause severe irritation and burns to eyes and skin. Inhalation of mists may cause mucous membrane and respiratory irritation and possibly nasal ulceration. May be harmful or fatal if swallowed.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for all routes of exposure.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use media appropriate for surrounding fire. Cool fire exposed containers and structures with water.
Specific hazards arising from the chemical: None known.
Special Protective Equipment and Precautions for Fire-Fighting Instructions: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.
Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Wear appropriate protective clothing as described in Section 8. Prevent contact with eyes and skin. Do not breathe mist or vapor. Aqueous solutions may cause surfaces to be extremely slippery and cause a slip hazard.

Methods and Materials for Containment and Cleaning Up: Dike and contain liquid. Collect liquid with an inert absorbent and place in appropriate containers for disposal. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with eyes, skin and clothing. Do not breathe mists, vapors or aerosols. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Empty containers retain product residues and contaminants that can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from incompatible materials. Protect from physical damage. Product will corrode aluminum; do not store in aluminum containers. Keep in original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Sililic acid, sodium salt (2.6 < MR <= 3.2)	None Established
Sodium Hexametaphosphate	None Established

Engineering Controls: Use with adequate general or local exhaust ventilation to minimize exposures levels.
Respiratory Protection: In operations where exposure levels are exceeded or irritation is experienced, a NIOSH approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.
Skin Protection: Wear impervious gloves to prevent skin contact.
Eye Protection: Chemical safety goggles and face shield recommended.
Other: Long-sleeved clothing and long pants recommended to avoid skin contact. Suitable washing facilities should be available in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance And Odor: White liquid with no odor.

Physical State: Liquid	**Odor Threshold:** Not established
Vapor Density: Similar to water	**Initial Boiling Point/Range:** >100°C (>212°F) (Water)
Solubility In Water: 100%	**Vapor Pressure:** Similar to water
Relative Density: 1.25-1.35	**Evaporation Rate:** Similar to water
Melting/Freezing Point: Not determined	**pH:** 10-12
VOC Content: 0%	**Octanol/Water Coefficient:** Not determined

Solubility: Miscible	**Decomposition Temperature:** Not determined
Viscosity: 5-20 cps	**Flammability (solid, gas):** Not applicable
Flashpoint: None	**Autoignition Temperature:** None
Flammable Limits: LEL: Not applicable	**UEL:** Not applicable

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical Stability: Stable under normal storage and handling conditions.
Possibility of Hazardous Reactions: May react with ammonium salts resulting in evolution of hydrogen gas.
Conditions to Avoid: None known.
Incompatible Materials: Avoid contact with aluminum, tin, lead, and zinc.
Hazardous Decomposition Products: When heated to decomposition emits oxides of oxides of phosphorus, sodium, and silicon.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:
Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation with nausea, vomiting and diarrhea. May be harmful or fatal if swallowed.
Inhalation: Inhalation of mists may cause irritation of the nose throat and upper respiratory tract.
Eye: May cause severe irritation and burns with pain and tearing. Corneal damage is possible.
Skin: May cause severe irritation and burns.
Sensitization: This material is not known to cause sensitization.
Chronic: None known.
Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP or OSHA.
Germ Cell Mutagenicity: None currently known.
Reproductive Toxicity: None currently known.

Numerical Measures of Toxicity:
Sililic acid, sodium salt (2.6 < MR <= 3.2): Oral rat LD50: 3400 mg/kg, inhalation rat LC50 > 2.06 mg/L, dermal rat LD50 > 5000 mg/kg
Sodium Hexametaphosphate: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:
Sililic acid, sodium salt (2.6 < MR <= 3.2): Danio rerio LC50: 1108 mg/L/96hr

Persistence and Degradability: Biodegradation is not applicable to inorganic substances.
Bioaccumulative Potential: No data available
Mobility in Soil: No data available
Other Adverse Effects: None known

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state and federal environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:
Proper Shipping Name: Not Regulated
UN Number: Not applicable
Hazard Class/Packing Group: Not applicable
Labels Required: Not applicable

IMDG Shipping Name: Not Regulated
IMDG Hazard Class: None
UN Number: None
IMDG Hazard Labels Required: None

IATA Shipping Name: Not Regulated
IATA Hazard Class: None
UN Number: None
IATA Hazard Labels Required: None

15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

SARA Hazard Category (311/312): Acute Health

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372): None

EPA TSCA Inventory: All of the ingredients in this product are listed on the EPA TSCA Inventory.

CANADA:
This product has been classified under the CPR and this SDS discloses information elements required by the CPR.
Canadian CEPA: All the components of this product are listed on the Canadian DSL.

16. OTHER INFORMATION

NFPA Rating:	Health = 3	Flammability = 0	Instability = 0
HMIS Rating:	Health = 3	Flammability = 0	Physical Hazard = 0

Date of previous revision: 7/21/14
Date of current revision: 11/5/15
Revision summary: Updated classification

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Sterling Water Technologies LLC shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.