SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: LITHI-TEK 9500
PRODUCT CODES: 9500

MANUFACTURER: KRETETEK INDUSTRIES
STREET ADDRESS: 66 RIVER ROAD
CITY, STATE, ZIP: HUDSON, NH 03051

INFORMATION PHONE: 855-573-8383
EMERGENCY PHONE: Chemtrec 800-424-9300
FAX PHONE: 855-573-8383

DATE REVISED: 6/1/18

SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview
GHS Classification: Serious eye irritation category 1, Skin corrosion/irritation category 1A, Eye irritation category 2
Label Elements: Corrosion
Signal Word: Danger
GHS Label Elements and Precautionary Statements:
Hazard Statements:
H314: Causes severe skin burns and eye damage
H315: Causes skin irritation
H319: Causes serious eye irritation

P-Code: Precautionary Statements
P260: Do not breathe spray
P262: Do not get in eyes, on skin, or on clothing
P271: Use only outdoors or in a well-ventilated area
P280: Wear protective gloves/protective clothing/eye protection/face protection
P301+P330+P331: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
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/doctor
P501: Dispose of contents/container to waste disposal

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NO.	OSHA PEL	ACGIH TLV	OSHA STEL
Lithium silicate	12627-14-4	none	none	none
Potassium methyl siliconate	31795-24-1	none	none	none
Water	7732-18-5	none	none	none

SECTION 4: FIRST AID MEASURES

General information: Get medical attention immediately. Remove contaminated clothing and shoes. Take a copy of the Safety Data Sheet when going for medical treatment.
After inhalation: If inhaled remove to fresh air. If not breathing, give articial respiration. If breathing is difficult give oxygen.
After contact with the skin: For skin contact, immediately wipe away excess material. Use a waterless hand cleaner to remove as much of the remaining material as possible. Wash with soap and water. In serious cases, use emergency shower immediately.

After contact with the eyes: If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.
After swallowing: If swallowed, do not induce vomiting. If swallowed, give victim several glasses of water. If vomiting does occur, give additional fluids. Never give anything by mouth to an unconscious person.
Advice for the physciain: Allow cortisone spray inhalation at first possible opportunity.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable properties:
Property: Flash point Value: N/A Method: ISO 3679
Property: Boiling point/boiling range not determined
Property: Lower explosion limit (LEL) Value: not applicable
Property: Upper explosion limit (UEL) Value: no applicable
Ignition temperature Value: not determined
Fire and Exlosion Hazards: This material does not present any unual fire or explosion hazards. Material does not burn.
Recommended extinguishing media: Use extinguishing measures appropriate to the source of fire.
Unsuitable extinguishing media: N/A
Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: N/A
Fire fighting procedures : Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

SECTION 6: RELEASE MEASURES

Precautions: Wear personal protection equipment (see section 8), chemical gogglesm body-covering protective clothing, chemical resistant gloves, and rubber boots. Avoid contact with eyes and skin. Avoid inhaling mists and vapours. Keep unprotected persons away.
HAZWOPER PPE Level**:** C
Environmental Hazards: Sinks and mixes with water. High pH of this material is harmful to aquatic life, see Section 12. Only water will evaporate from a spill of this material.
Containment: Prevent material from entering surface waters, drains or sewers and soil. Contain any fluid that runs out using suitable material (e.g. earth).Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.
Methods for cleaning up: Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Dilute with plenty of water and dispose of according to local/state/federal regulations. Do not flush to sewer or allow to enter waterways. Contain larger amounts and pump up into suitable containers. Keep unnecessary people away; isolate hazard area and deny entry. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent runoff from entering into storm sewers and ditches which lead to natural waterways. Isolate, dike and store discharged material, if possible. Use sand or earth to contain spilled material.
CERCLA RQ: There is no CERCLA Reportable Quantity for this material. If a spill
goes off site, notification of state and local authorities is recommended

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid breathing spray mists. Keep container tightly closed. Promptly clean residue from closures with cloth dampened with water. Promptly clean up spills. Avoid contact with acids. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection).
Precautions against fire and explosion required: No special precautions against fire and explosion required.
Storage
Conditions for storage rooms and vessels: Do not store in containers made of aluminum or other light metals. Keep containers closed. Store in clean plastic containers. Separate from acids, reactive metals, and ammonium salts. Keep from freezing.
Recommended storage temperature 15°-60° C (59°-140° F). Do not store in aluminum, steel, fiberglass, copper, brass, zinc or galvanized containers.

Advice for storage of incompatible materials: Avoide contact with acids
Further information for storage:
Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls
Ventilation:
Use with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.
Local exhaust:
If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and spr ays, such as a paint spray booth, is recommended.

Personal protection equipment (PPE) Respiratory protection:
If spraying or other operations which generate an aerosol mist are conducted, respiratory protection for exposed personnel is recommended. A NIOSH approved air purifying respirator equipped with universal multi-contaminant, multi-gas/vapor cartridges and at least P-99 solid/aerosol particulate filters is recommended if overexposure to dusts, mists, or vapors could occur. If eye- irritating dusts or vapors are present, a full-face respirator should be worn.
Hand protection:
butyl rubber protective gloves
Eye protection:
tight fitting chemical safety goggles Additional eye and face protection, splash-proof goggles, hood, full-faced respirator, or face shield is recommended if splashing could occur.
Other protective clothing or equipment:
Additional skin protection, such as SARANEX coated Tyvek apron, over-sleeves, lab coat, coveralls, or protective suit should be worn if splashing could occur. Provide eye bath and safety shower.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical state / form .....: liquid
Colour .....: colourless to yellowish
Odour .....: slight

Safety parameters
Melting point / melting range Value: not determined
Boiling point / boiling range Value: not determined
Flash point Value: not applicable
Ignition temperature: not determined
Lower explosion limit (LEL): not applicable
Upper explosion limit (UEL): not applicable
Vapour pressure: not determined
Density: not determined
Water solubility / miscibility: completely miscible at 20 ° C (68 ° F)

SECTION 10: STABILITY AND REACTIVITY

General information: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
Conditions to avoid: none known
Materials to avoid: Reacts with: acids . Reaction causes the formation of: heat. Gels and generates heat when mixed with acid. Absorbs carbon dioxide on exposure to air. May react with ammonium salts resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and zinc.
Hazardous decomposition products: Hydrogen
Further information: Hazardous polymerization cannot occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity Assessment: Based on the available data acute toxic effects are not expected after single oral exposure.
Skin corrosion/irritation Assessment: After contact to the skin strong corrosion of the skin are to be expected.
Serious eye damage / eye irritation Assessment: After contact to the eyes irreversible effects must be expected.
Respiratory or skin sensitization Assessment: Based on the corrosive properties an examination of this toxicological endpoint is not necessary.
Germ cell mutagenicity Assessment: According to our present state of knowledge not mutagenic. The evaluation is based of the whole data, including results of similar substrances.
Carcinogenicity Assessment: Based on the available toxicological data no specific evaluation of the carcinogenic potential is scientifically implicated.
Reproductive toxicity Assessment: Based on hydrolysis characteristics of the substance the assessment is based on the hydrolysis products. For the silanols/siloxanols a conclusion was made by analogy (read-across) to structurally similar alkoxy silanes. On the basis of the available data no reproductive hazards are expected
Specific target organ toxicity (single exposure) Assessment: For this endpoint no toxicological test data is available for the whole product
Aspiration hazard Assessment: In case an aspiration hazard is based on ingredients, this can be seen from the classification and labeling of the whole product.
Further toxicological information: Repeated ingestion or ingestion of large doses of soluble lithium compounds is reported to cause temporary mental function impairment. epeated ingestion or ingestion of large doses of soluble lithium compounds during pregnancy is reported to cause fetal abnormalities. Frequent ingestion over extended periods of time of gram quantities of silicates is associated with the formation kidney stones and other siliceous urinary calculi in humans. Lithium silicate is not listed by IARC, NTP or OSHA as a carcinogen. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or conf irmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Assessment: Based on hydrolysis characteristics of the substance the assessment is based on the hydrolysis products. For the silanols/siloxanols a conclusion was made by analogy (read-across) to structurally similar alkoxy silanes. On the basis of these data no harmful effects are expected for aquatic organisms after neutralization or if the buffer capacity of the sewage treatment plant or the water compartiment is not exceeded.
The high pH of this material may be acutely harmful to aquatic life. It does not contribute to BOD. Sinks and mixes with water. Only water will evaporate from this material.
Bioaccumulative potential Assessment: No adverse effect expecred
Mobility in soil Assessment: No data known
Other adverse effects: none known

SECTION 13: WASTE DISPOSAL

RCRA Waste Classification: D002 (Corrosive) This classification applies only to the material as it was originally produced.
Product disposal recommendation: Dispose of accrding to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.
Packaging disposal: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations.

SECTION 14: TRANSPORTATION

DOT: Not Regulated

IMO/IMDG: Not Regulated

SECTION 15: REGULATORY INFORMATION

U.S. Federal regulations
TSCA inventory status and TSCA information:
This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12(b) Export Notification:
This material does not contain any TSCA 12(b) regulated chemicals.
CERCLA Regulated Chemicals:
This material does not contain any CERCLA regulated chemicals.
SARA 302 EHS Chemicals:
This material does not contain any SARA extremely hazardous substances.
SARA 311/312 Hazard Class:
Immediate (acute) health hazard.
SARA 313 Chemicals:
This material does not contain any SARA 313 chemicals above de minimus levels.

U.S. State regulations
California Proposition 65 Carcinogens:
This material does not contain any chemicals known to the state of California to cause cancer.
California Proposition 65 Reproductive Toxins:
67-56-1 Methanol

Massachusetts Substance List:
This material contains no listed components.
New Jersey Right-to-Know Hazardous Substance List:
This material contains no listed components.

Pennsylvania Right-to-Know Hazardous Substance List:
This material contains no listed components.
Canadian regulations
This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.
WHMIS Hazard Classes: E
DSL Status: This material or its components are listed on the Canadian Domestic Substances List.

SECTION 16: OTHER INFORMATION

DISCLAIMER: THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE AND IS BELIEVED TO BE ACCURATE, HOWEVER, THE MANUFACTURER MAKES NO WARRANTY EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THIS DATA OR THE RESULTS OBTAINED FROM THE USE THEREOF. ACCORDINGLY, WE ASSUME NO RESPONSIBILITY FOR INJURY FROM THE USE OF THIS PRODUCT.