



## SAFETY DATA SHEET

### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** LITHI-TEK 9500

**PRODUCT CODES:** 9500

**MANUFACTURER:** KRETETEK INDUSTRIES

**STREET ADDRESS:** 1000 N WEST ST

**CITY, STATE, ZIP:** WILMINGTON, DE 19801

**INFORMATION PHONE:** 855-573-8383

**EMERGENCY PHONE:** Chemtrec 800-424-9300

**FAX PHONE:** 855-573-8383

**DATE REVISED:** 6/1/17

**Chemical Name or Class:** Lithium silicate/potassium methyl silicate

### SECTION 2: HAZARDS IDENTIFICATION

Hazard Overview

GHS Classification: Serious eye irritation category 1, Skin corrosion/irritation category 1A

Label Elements: Corrosion

GHS Label Elements and Precautionary Statements:

Hazard Statements:

Danger: Causes severe skin burns and eye damage

P-Code	Precautionary Statements
P280	Wear protective gloves/protective clothing/eye protection.
P271	Use only outdoors or in a well-ventilated area.
P260	Do not breathe spray.
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

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>
Lithium silicate	12627-14-4	none	none	none
Potassium methyl silicate	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 artificial 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.

Advice for the physician: 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 Value 100°C 212°F at 1013 hPa

Property: Lower explosion limit (LEL) Value: not applicable

Property: Upper explosion limit (UEL) Value: no applicable

Ignition temperature Value: >600°C >1112° F Method DIN 51794

Fire and Explosion Hazards: This material does not present any unusual 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). Avoid contact with eyes and skin. Avoid inhaling mists and vapours.

Keep unprotected persons away.

HAZWOPER PPE Level: C

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. Contain larger amounts and pump up into suitable containers.

## **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling: 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.

Advice for storage of incompatible materials: Avoid contact with acids

Further information for storage:

Keep container tightly closed.

Minimum temperature allowed during storage and transportation: -30 ° C (-22 ° F)

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

Engineering controls

Ventilation:

Use with adequate ventilation.

Local exhaust:

If spraying or other aerosol generating operations are performed, local exhaust ventilation designed to capture mists and sprays, 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: approx. -85 ° C (-121 ° F)

Boiling point / boiling range Value: 100 ° C (212 ° F) at 1013 hPa

Flash point Value: not applicable

Ignition temperature: > 600 ° C (> 1,112 ° F)

Lower explosion limit (LEL): not applicable

Upper explosion limit (UEL): not applicable

Vapour pressure: not determined

Density: 1.4 g/cm<sup>3</sup> at 25 ° C (77 ° F), at 1013 hPa

Water solubility / miscibility: completely miscible at 20 ° C (68 ° F)

pH-Value: 13 - 14 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.

Hazardous decomposition products: If stored and handled properly: none known .

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 substances.

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: 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 confirmed 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 compartment is not exceeded

Bioaccumulative potential Assessment: No adverse effect expected

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 according 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.