



SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SILOXA-TEK 8500

PRODUCT CODES: 8500

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

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification GHS

Hazardous to the aquatic environment: acute Category 2

Flammable liquids: Category 4

Hazardous to the aquatic environment: chronic, Category 3

H-Code Hazard Statements

H227: Combustible liquid

H401: Toxic to aquatic life

H412: Harmful to aquatic life with long lasting effects

P-Code Precautionary Statements

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection

P302+P352: If on skin wash with plenty of water/soap

P333+P313: If skin irritation or rash occurs get medical advice/attention

P403+P235: Store in a well-ventilated place. Keep cool.

P501: Dispose of contents/container to waste disposal.

The following percentage of the mixture consists of ingredients with unknown hazards to the aquatic environment: 34

Other hazards: Inhalation of aerosol spray may damage health. Product hydrolyses under formation of methanol (CAS no. 67-56-1).

Methanol toxic by inhalation. In contact with skin and if swallowed. Methanol causes damage to organs. Methanol is highly flammable.

Product hydrolyses, producing ethanol (CAS no. 64-17-4). Ethanol is highly flammable.

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>
3-Aminopropyltriethoxysilane	919-30-2	none	none	none

SECTION 4: FIRST AID MEASURES

General information: Get medical attention if irritation occurs or if breathing becomes difficult.

After inhalation: If inhaled remove to fresh air.

After contact with the skin: For skin contact, immediately wipe away excess material. Wash with soap and water.

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, rinse mouth with water. Induce drinking plenty of water in small portions.

Advice for the physician: Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

Flammable properties:

Property: Flash point Value: 70 ° C (158 ° F)

Property: Boiling point/boiling range 100 ° C (212 ° F) Lower

Property: Lower explosion limit (LEL) no data available

Property: Upper explosion limit (UEL) no data available

Ignition temperature Value: 395 ° C (743 ° F)

NFPA Hazard Class (comb/flamm liquid): IIIA

Fire and Explosion Hazards: This material will flash but does not sustain combustion. As a result of gradual hydrolysis, flammable by-products are released during storage which can cause a lowering of the flash point of the product over the course of its shelf life. As a result of hydrolysis flammable vapors may accumulate in the container head space. This material does not present any unusual fire or explosion hazard.

Recommended extinguishing media: Use extinguishing measures appropriate to the source of fire. water-mist , carbon dioxide, dry chemical or foam-type extinguishing media

Unsuitable extinguishing media: sharp water jet .

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: Hazardous combustion products: silicon dioxide , formaldehyde , carbon dioxide , carbon monoxide and incompletely burnt hydrocarbons

Fire fighting procedures: Fire fighters should wear full protective clothing including a self-contained breathing apparatus. Cool endangered containers with water.

SECTION 6: RELEASE MEASURES

Precautions: Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

HAZWOPER PPE Level: D

Containment: Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground. 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.

SECTION 7: HANDLING AND STORAGE

General information: Always stir well before use.

Handling:

Precautions for safe handling: Avoid contact with eyes, skin and clothing. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Ensure adequate ventilation. Keep away from incompatible substances in accordance with section 10. Spilled substance increases risk of slipping.

Precautions against fire and explosion: Product can separate ethanol and methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging.

Cool endangered containers with water.

Storage

Conditions for storage rooms and vessels: Observe local/state/federal regulation

Advice for storage of incompatible materials: Observe local/state/federal regulation

Further information for storage:

Protect against sun. Protect against frost. Keep container tightly closed and store in a cool, well ventilated place.

Minimum temperature allowed during storage and transportation: 0 ° C (32 ° F)

Do not allow this material to freeze.

Maximum temperature allowed during storage and transportation: 40 ° C (104 ° F)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Ventilation:

Use only 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:

Respiratory protection is not normally required.

Hand protection:

Any liquid-tight rubber or vinyl gloves.

Eye protection:

Safety glasses with side shields.

Additional protective clothing or equipment: Additional protective clothing or equipment is not normally required. Provide eye bath and safety shower

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state / form: liquid

Colour: white

Odour: slight

Safety parameters

Melting point/melting range: Boiling -1 ° C (30 ° F)

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

Flash point Value: 70 ° C (158 ° F)

Ignition temperature: 395 ° C (743 ° F)

Lower explosion limit (LEL): no data available

Upper explosion limit (UEL): no data available

Vapour pressure: 23 hPa at 20 ° C (68 ° F)

Density: 0.95 g/cm

Water solubility / miscibility: completely miscible

pH-Value: approx. 8

Viscosity(kinematic): approx. 12 mPa.s at 25 ° C (77 ° 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: Heat, open flames, and other sources of ignition.

Materials to avoid: Reacts with: basic substances and acids . Reaction causes the formation of: methanol and ethanol

Hazardous decomposition products: By hydrolysis: methanol and ethanol . The following applies for the silicone content of the substance: Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 ° C (302 ° F) through oxidation.

Further information: Hazardous polymerization cannot occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Oral exposure: LD50:>2000mg/kg

Skin corrosion/irritation Assessment: For this endpoint no toxicological test data is available for the whole product.

Serious eye damage / eye irritation Assessment: For this endpoint no toxicological test data is available for the whole product.

Respiratory or skin sensitization Assessment: For this endpoint no toxicological test data is available for the whole product.

Germ cell mutagenicity Assessment: For this endpoint no toxicological test data is available for the whole product.

Carcinogenicity Assessment: For this endpoint no toxicological test data is available for the whole product.

Reproductive toxicity Assessment: For this endpoint no toxicological test data is available for the whole product.

Specific target organ toxicity (single exposure) Assessment: For this endpoint no toxicological test data is available for the whole product.

Aspiration hazard Assessment: For this endpoint no toxicological test data is available for 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. Other information: Hydrolysis product / impurity: According to literature, ethanol (67-17-5) irritates the mucous membranes, slightly irritates the skin, degreases the skin, is narcotic and may cause liver damage.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Assessment: According to current knowledge adverse effects on water purification plants are not expected.

Persistence and degradability Assessment: Contact with water liberates ethanol and silanol- and/or siloxanol-compounds. Silicone content: biologically not degradable. Elimination by adsorption to activated sludge. The hydrolysis product (Ethanol) is readily biologically degradable.

Bioaccumulative potential Assessment: Bioaccumulation is not expected to occur.

Mobility in soil Assessment:

Silicone content: Absorbed by floating particles. Separation by sedimentation.

Other adverse effects: none known

SECTION 13: WASTE DISPOSAL

Product disposal recommendation: Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State and local regulations at an approval facility. Depending on the regulations, waste treatment methods may include e.g. landfill

Packaging disposal: Recommendation: Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Unclean packaging should be treated with the same precautions as the material.

SECTION 14: TRANSPORTATION

DOT:

Valuation: Not regulated for transport

Other information: Protect from freezing, when exposed to cold temperatures approaching 0 ° C (32 ° F) or below. This material has been tested and does not sustain combustion. No DOT flammable liquid class 3 diamond label required

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:

Fire 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: B#

DSL Status: This product contains one or more substance(s) that are subject to annual import quantity limit restrictions.

Non-DSL Chemicals: This material does not contain any non-DSL chemicals.

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.