



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Identification of the substance or preparation:

Commercial product name: SILOXA-TEK 8505

1.2 Company/undertaking identification:

Manufacturer/distributor: KreteTek Industries
1000 N West St
Wilmington, DE 19801
USA

Customer information:

Tel (855) 573-8383, Fax (855) 573-8383
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.Ghostshield.com

Emergency telephone no: (800) 424-9300 (CHEMTREC, USA)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (GHS):

Class Category

Specific target organ toxicity (repeated exposure) Category 2

2.2 Label elements

Labelling (GHS):

Pictogram(s):



Signal Word: Warning

H-Code Hazard Statements
H373 May cause damage to organs through prolonged or repeated exposure.

P-Code Precautionary Statements
P103 Read label before use.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P314 Get medical advice/attention if you feel unwell.
P404 Store in a closed container.
P501 Dispose of contents/container to waste disposal.

2.3 Other hazards

No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical characterization (preparation)

Chemical characteristics
Silicon + siloxane + water

3.2 Information on ingredients:

Type	CAS No.	Substance	Content [wt. %]		Note
			Lower	Upper	
INHA	107-21-1	1,2-Ethanediol	1.0	<=3.0	

Type: HYD - by-product upon hydrolysis, INHA - ingredient, NEBE - by-product, MONO - residual monomer, VERU - impurity, VUL - by-product upon vulcanization. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, NH - non- hazardous, R - reproductive toxin.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non- carcinogenic HAPS or they are inextricably bound in the product.

4. FIRST-AID MEASURES

4.1 General information:

Get medical attention if irritation occurs or if breathing becomes difficult. Remove contaminated clothing and shoes.

4.2 After inhalation

If inhaled remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult give oxygen.

4.3 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.

4.4 After contact with the eyes

If contact with eyes, immediately hold eyelids apart and flush with plenty of water for at least 15 min.

4.5 After swallowing

For ingestion, if conscious, give several glasses of water but do not induce vomiting. If vomiting does occur, give additional fluids. Danger of aspiration.

4.6 Advice for the physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

5.1 Flammable properties:

Property:	Value:	Method:
Flash point.....	> 93 ° C (> 199 ° F)	Boiling
point / boiling range	not determined	Lower explosion
limit (LEL)	not applicable	Upper explosion limit
(UEL).....	not applicable	Ignition temperature
.....	not applicable	NFPA Hazard Class
(comb./flam.liquid).....	IIIB	

5.2 Fire and explosion hazards:

Material does not burn. This material does not present any unusual fire or explosion hazards.

5.3 Recommended extinguishing media:

Water - Use Fine Spray or Fog. Dry chemical. Carbon dioxide. Water may be used to cool tanks and structures adjacent to the fire. AFFF alcohol compatible foam.

5.4 Unsuitable extinguishing media:

None.

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous combustion products: Various hydrocarbon fragments , various halogenated compounds , carbon dioxide , formaldehyde , carbon monoxide , sulfur dioxide , silicon dioxide , nitrogen oxides

5.6 Fire fighting procedures:

Full turn-out gear and Self Contained Breathing Apparatus (SCBA) should be worn when fighting large fires.

6. ACCIDENTAL RELEASE MEASURES

6.1 Precautions:

Secure the area. Obtain appropriate PPE, supplies, and equipment prior to attempting any response. Warn others in the area and notify appropriate response personnel, if necessary. Have any persons who are not involved in the spill response leave the area.

HAZWOPER PPE Level: D

6.2 Containment:

If safe to do so, stop the leak at its source. Cover openings to underground drains and sewers. Use loose absorbant material or prefabricated socks to dike around small quantities of spilled material (incidental spills).

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.

6.3 Methods for cleaning up

Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Use absorbant materials to pick up residual liquids. After removing as much material as possible, flush the spill area with water.

7. HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Use with adequate ventilation. Keep container closed when not in use.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

7.2 Storage

Conditions for storage rooms and vessels:

Protect against frost.

Advice for storage of incompatible materials:

not applicable

Further information for storage:

Store in a warm temperature regulated area to prevent freezing during cold weather conditions. Store in the original container.

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: 50 ° C (122 ° F)

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 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.

8.2 Associate substances with specific control parameters such as limit values

Maximum airborne concentrations at the workplace:

CAS No.	Material	Type	mg/m ³	ppm	Dust fract.
64-17-5	Ethanol	OSHA PEL	1,900.0	1,000.0	

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH)

8.3 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.

Hand protection:

Any liquid-tight rubber or vinyl gloves.

Eye protection:

Safety glasses with side shields or chemical safety goggles.

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.

8.4 General hygiene and protection measures:

Do not eat, drink or smoke when handling. Follow standard industrial hygiene practices when using this material. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance

Physical state / form.....: liquid
Colour.....: milky white
Odour.....: characteristic

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range.....:	not determined	Boiling
point / boiling range.....:	not determined	Flash
point.....:	> 93 ° C (> 199 ° F)	Ignition
temperature.....:	not applicable	Lower explosion limit
(LEL).....:	not applicable	Upper explosion limit
(UEL).....:	not applicable	Vapour
pressure.....:	not determined	
Density.....:	1.05 g/cm ³ at 25 ° C (77 ° F)	Water
solubility / miscibility.....:	completely miscible	
pH-Value.....:	5 at 25 ° C (77 ° F) (1000 g/l H ₂ O)	
Viscosity (dynamic).....:	60 mPa.s at 25 ° C (77 ° F)	

10. STABILITY AND REACTIVITY

10.1 General information:

Stable under normal conditions of use.

10.2 Conditions to avoid

Although this product is not expected to react with commonly used materials of construction and process equipment, it is advised that any rubber or plastic items such as hoses and gaskets be tested prior to large scale processing to ensure there is no degradation of performance or durability. Keep away from incompatible substances.

10.3 Materials to avoid

strong oxidizing agents , strong acids , alkalis .

10.4 Hazardous decomposition products

Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 ° C (302 ° F) through oxidation.

10.5 Further information:

Hazardous polymerization cannot occur

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Assessment:

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

11.1.3 Skin corrosion/irritation

Assessment:

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

11.1.4 Serious eye damage / eye irritation

Assessment:

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

11.1.5 Respiratory or skin sensitization

Assessment:

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

Data related to ingredients:

5-Chloro-2-methyl-4-isothiazoline-3-on and 2-methyl-4-isothiazoline-3-on (mixture in a ratio of 3:1):

Based on the proven low sensitization induction threshold in human, mixtures containing ≥ 15 ppm are classified as skin sensitizing in Europe.

11.1.6 Germ cell mutagenicity

Assessment:

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

11.1.7 Carcinogenicity

Assessment:

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

11.1.8 Reproductive toxicity

Assessment:

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

11.1.9 Specific target organ toxicity (single exposure)

Assessment:

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

11.1.10 Specific target organ toxicity (repeated exposure)

Assessment:

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

11.1.11 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.

11.1.12 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.

Data related to ingredients:

Product of hydrolysis (Ethanol):

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.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Assessment:

For the product as a whole, no test data is available.

12.2 Persistence and degradability

Assessment:

Silanol- and/or siloxanol-compounds: Biologically not degradable.

Data related to ingredients:

Product of hydrolysis (Ethanol):

The hydrolysis product (Ethanol) is readily biologically degradable.

12.3 Bioaccumulative potential

Assessment:

For the product as a whole, no test data is available.

12.4 Mobility in soil

Assessment:

For the product as a whole, no test data is available.

12.5 Other adverse effects

none known

13. DISPOSAL CONSIDERATIONS

13.1 Product disposal

Recommendation:

Material that cannot be used or chemically reprocessed should be disposed of at an approved facility in accordance with any applicable governmental regulations. State and local regulations may be more stringent than Federal regulations.

13.2 Packaging disposal

Recommendation:

Uncleaned packaging should be treated with the same precautions as the material. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. After emptying contaminated containers may be cleansed and recycled.

14. TRANSPORT INFORMATION

14.1 US DOT & CANADA TDG SURFACE

Valuation: Not regulated for transport

Other Information: Protect from freezing, when exposed to cold temperatures approaching 0 ° C (32 ° F) or below.

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

15. REGULATORY INFORMATION

15.1 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:

CAS No.	Chemical	Reporting required under TSCA
	Vendor Trade Secret Fluorochemical Acrylate Polymer	One time export notification under TSCA 5(e) required.
	Vendor Trade Secret Fluorochemical Acrylate Polymer	One time export notification under TSCA 5(e) required.

CERCLA Regulated Chemicals:

CAS No.	Chemical	RQ	Upper limit wt. %
107-21-1	1,2-Ethanediol	5,000 lbs	<=2.33

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Delayed (chronic) health hazard.

SARA 313 Chemicals:

CAS No.	Chemical	Upper limit wt. %
107-21-1	1,2-Ethanediol	<=2.33

SARA 313 information included on this SDS should be included in all SDSs that are copied from and distributed for this material.

HAPS (Hazardous Air Pollutants):

CAS No.	Chemical	Upper limit wt. %
67-56-1	Methanol	<=0.002
107-21-1	1,2-Ethanediol	<=2.33

15.2 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
107-21-1	1,2-Ethanediol

Massachusetts Substance List:

107-21-1	1,2-Ethanediol
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New Jersey Right-to-Know Hazardous Substance List:

107-21-1	1,2-Ethanediol
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Pennsylvania Right-to-Know Hazardous Substance List:

107-21-1	1,2-Ethanediol
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15.3 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:

D2A

DSL Status:

This material or its components are listed on the Canadian Domestic Substances List

15.4 Details of international registration status

Relevant information about individual substance inventories, where available, is given below. South

Korea (Republic of Korea) : **ECL** (Existing Chemicals List):

This product is listed in, or complies with, the substance inventory.

People's Republic of China : **IECSC** (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

European Economic Area (EEA) : **REACH** (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

16. OTHER INFORMATION

16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial

ppm - Parts per Million

Hygienists

SARA - Superfund Amendments and Reauthorization Act

DOT - Department of Transportation

STEL - Short Term Exposure Limit

hPa - Hectopascals

TSCA - Toxic Substances Control Act

mPa*s - Milli Pascal-Seconds

TWA - Time Weighted Average

OSHA - Occupational Safety and Health Administration

WHMIS - Canadian Workplace Hazardous Materials

PEL - Permissible Exposure Limit

Identification System

Flash point determination methods ASTM **Common name**

D56..... ASTM D92, DIN Tagliabue (Tag) closed cup

51376, ISO 2592 ASTM D93, DIN 51758, Cleveland open cup

ISO 2719 ASTM D3278, DIN 55680, ISO Pensky-Martens closed cup

3679 DIN 51755 Setaflash or Rapid closed cup

..... Abel-Pensky closed cup

16.3 Conversion table:

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa

Viscosity:.....: 1 mPa*s = 1 centipoise (cP)