

SilaneSeal 40 (335)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision Date: 3/26/2019 Supersedes: 12/8/2016

Version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

1.1. Product Identifier

Product Form: Mixture

Product Name: SilaneSeal 40 (335)

1.2. Intended Use of the Product

Use of the substance/mixture: Waterproofing agent

1.3. Name, Address, and Telephone of the Responsible Party

Company

Kaufman Products, Inc.

3811 Curtis Avenue

Baltimore, MD 21226-1131

410-354-8600

<http://www.kaufmanproducts.net/>

1.4. Emergency Telephone Number

Emergency Number : 800-424-9300

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)

Flammable liquids H225

Skin Irritation H315

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H225 - Highly flammable liquid and vapor

H315 - Causes skin irritation

Precautionary Statements (GHS-US)

: P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P264 - Wash skin thoroughly after handling.

P280 - Wear protective gloves/ eye protection/ face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P332 + P313 - If skin irritation occurs: Get medical advice/ attention.

P362 - Take off contaminated clothing and wash before reuse.

P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical

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or carbon dioxide to extinguish.

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

P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other Hazards

No additional information available

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	Classification (GHS-US)
Triethoxyisobutylsilane	(CAS No) 17980-47-1	>= 30% - < 60%	Flammable liquids Category 4 Skin irritation Category 2
Ethanol; ethyl alcohol	(CAS No) 64-17-5	>= 30% - < 60%	Flammable liquids Category 2

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If unconscious, evaluate the need for artificial respiration. Get immediate medical attention.

First-aid Measures After Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Obtain medical attention. Wash clothing before reuse. Destroy or thoroughly clean contaminated shoes before reuse.

First-aid Measures After Eye Contact: In case of contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

First-aid Measures After Ingestion: If swallowed, get medical attention immediately. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: None Known

Symptoms/Injuries After Inhalation: None Known

Symptoms/Injuries After Skin Contact: None Known

Symptoms/Injuries After Eye Contact: None Known

Symptoms/Injuries After Ingestion: None Known

Chronic Symptoms: None Known

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use water spray or fog, foam, dry chemical or CO2

Unsuitable Extinguishing Media: High volume water jet.

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5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Flammable liquid

Explosion Hazard: Explosive mixtures may occur at temperatures at or above the flashpoint.

Reactivity: Vapors can travel to a source of ignition and flash back

5.3. Advice for Firefighters

Firefighting Instructions: As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/ NIOSH approved or equivalent) and full protective gear. Containers can build up pressure if exposed to heat (fire). Cool with water spray.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Avoid all eyes and skin contact and do not breathe vapor and mist. Do not allow product to spread into the environment.

6.1.1. For Non-emergency Personnel

Protective Equipment: Remove all sources of ignition. Ventilate the area. Wear personal protective equipment; see section 8

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

6.2. Environmental Precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and Material for Containment and Cleaning Up

For Containment: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Remove sources of ignition and ventilate area. Run off may create fire or explosion hazard in sewer. Assure sufficient ventilation.

Methods for Cleaning Up: Collect spillage. Clear up spills immediately and dispose of waste safely.

6.4. Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Keep away from heat. Keep away from sparks, flames and other sources of ignition. Avoid breathing vapor or mist. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Follow all MSDS/Label precautions even after the container is emptied because it may retain product residue. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source. Wear personal protective equipment; see section 8.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep tightly closed in a dry, cool and well-ventilated place. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Incompatible Products: Strong acids. Strong bases. Strong oxidizers.

Incompatible Materials: Heat sources.

Storage Area: Store locked up.

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7.3. Specific End Use(s) Curing compound/Sealer

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

• Ethanol; ethyl alcohol		
CAS-No.	64-17-5	
Control parameters	1000 ppm 1900 mg/m3	Permissible exposure limit:(OSHA Z1)
Control parameters	1000 ppm 1900 mg/m3	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	1000 ppm 1900 mg/m3	Time Weighted Average (TWA):(TN OEL)

8.2. Exposure Controls

Appropriate Engineering Controls

: Ensure all national/local regulations are observed.

Personal Protective Equipment

: Gloves. Protective clothing. In case of splash hazard: safety glasses.



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

Hand Protection

: Wear chemically resistant protective gloves.

Eye Protection

: In case of splash hazard: chemical goggles or safety glasses.

Skin and Body Protection

: Wear suitable protective clothing.

Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn.

Other Information

: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Clear
Odor	: Strong Odor
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: Slower than ether
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 78 °C (760 hPa)

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Flash Point	: 12.78 °C
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: 74 hPa (22 °C)
Relative Vapor Density at 20 °C	: No data available
Relative Density	: .8
Specific Gravity	: 1.02
Solubility	: Water: not miscible decomposition by hydrolysis
Log Pow	: No data available
Log Kow	: No data available
Viscosity, Kinematic	: No data available
Viscosity, Dynamic	: No data available
Explosive Properties	: No data available
Oxidizing Properties	: No data available
Explosive Limits	: Vapors can form explosive mixtures with air.

9.2. Other Information

VOC content : 600 g/l

SECTION 10: STABILITY AND REACTIVITY

- 10.1 Reactivity:** No dangerous reaction known under conditions of normal use.
- 10.2 Chemical Stability:** Stable under recommended storage conditions
- 10.3 Possibility of Hazardous Reactions:** No dangerous reactions known.
- 10.4 Conditions to Avoid:** Avoid high temperatures and sources of ignition
- 10.5 Incompatible Materials:** Water, Acids, oxidizing substances
- 10.6 Hazardous Decomposition Products:** Silicone polymers. Stable under normal conditions. Product will not undergo hazardous polymerization.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information On Toxicological Effects

Acute Toxicity: Carcinogenicity assessment: Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA

Triethoxyisobutylsilane (17980-47-1)	
LD50 Rat	> 5000 mg/kg
LC50 Rat	5.88 mg/l / 4 h / dust/mist
LD50 Rat	> 2000 mg/kg
Rabbit	Skin irritation, No Eye irritation
Guinea pig	Does not cause skin sensitization.
Oral Rat / 28-day	> 1000 mg/kg
Ethanol; ethyl alcohol (64-17-5)	
LD50 Rat	6200 mg/kg
LC50 Rat	Rat: 95.6 mg/l / 4 h
Rabbit	Not irritating

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Skin Corrosion/Irritation: The liquid removes oil from the skin. Repeated skin contact can cause dry and fragile skin. Rapid evaporation of the liquid may cause frostbite

Serious Eye Damage/Irritation: No eye irritation

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: This product may cause mutagenic effects

Carcinogenicity: No evidence that cancer may be caused

Reproductive Toxicity: Animal model trials have produced no evidence of fertility damage.

Specific Target Organ Toxicity (Single Exposure): No Data Available.

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Inhalation of fumes or vapours may cause respiratory irritation.

Symptoms/Injuries After Skin Contact: May cause skin irritation.

Symptoms/Injuries After Eye Contact: May cause eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

Chronic Symptoms: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : No ecotoxicological studies are available

12.2. Persistence and Degradability

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Persistence and Degradability	Not established.
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12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.
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12.4. Mobility in Soil No additional information available

12.5. Other Adverse Effects

Other Information : No ecotoxicological studies are available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH. Packaging material should be recycled or disposed of in accordance with federal, state and local regulations.

Ecology – Waste Materials: This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: UN 1170

14.2 UN Proper Shipping Name: Ethanol solution

14.3 Transport hazard class(es): 3

14.4 Packing Group: II

14.5 Environmental hazards (Marine pollutant): None

14.6 Special precautions for user: No

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SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations:

OSHA

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

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SECTION 15: REGULATORY INFORMATION - *Continued*

15.2 US State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health:	2
Flammability:	3
Physical Hazard:	1

NFPA Ratings

Health:	2
Flammability:	3
Reactivity:	1

SECTION 16: OTHER INFORMATION

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

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