

SilaneSeal 100 (337)

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 100 (337)

1.2. Intended Use of the Product

Use of the substance/mixture: For industrial use Hydro- and oleophobicizing 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 H226

Skin Irritation H315

Specific Target Organ H336

Toxicity – Single Expos.

2.2. Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Danger

Hazard Statements (GHS-US)

: H226 - Flammable liquid and vapor

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

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.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 - Wash skin thoroughly after handling.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P271 - Use only outdoors or in a well-ventilated area.
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.
P304 + P312 - IF INHALED: Call a POISON CENTER/doctor/... if you feel unwell.
P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
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 or carbon dioxide to extinguish.
P403 + P233 + P235 - Store in a well-ventilated place. Keep Container tightly closed. 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)
Trimethoxy(2-methylpropyl)silane	(CAS No) 18395-30-7	>=90 - <=100%	

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Take off all contaminated clothing immediately

First-aid Measures After Inhalation: If aerosol or mists are formed: Move victims into fresh air. In case of persistent discomfort: Consult doctor immediately

First-aid Measures After Skin Contact: Wash off immediately with plenty of water. Consult a doctor in the event of permanent skin irritation

First-aid Measures After Eye Contact: Keeping eyelid open, immediately rinse thoroughly for at least 5 minutes using plenty of water or, if necessary, eye rinsing solution. In case of persistent discomfort: Consult an ophthalmologist

First-aid Measures After Ingestion: Have the mouth rinsed with water. Call a physician immediately

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

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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: Water spray, foam, dry powder or carbon dioxide

Unsuitable Extinguishing Media: Water. High volume water jet.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Standard procedure for chemical fires. Combustible liquid. Vapors can travel to a source of ignition and flash back

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: Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 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 and sources of ignition. Remove sources of ignition and ventilate area. Run off may create fire or explosion hazard in sewer. Assure sufficient ventilation.

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).

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.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Precautions for Safe Handling: Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure. Wear personal protective equipment; see section 8. Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source. Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation.

Hygiene Measures: Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Take precautionary measures against static charges, keep away from sources of ignition. Explosion protection equipment required. Danger of explosion from residual product fumes; therefore avoid spark production through cutting, grinding, or welding work in the area of the container. When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product. This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks. The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines. Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Incompatible Products: No Data Available

Incompatible Materials: No Data Available.

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

7.3. Specific End Use(s): Hydro- and oleophobicizing agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters:

Occupational Exposure Limits

None of the components have assigned exposure limits. Hazardous components without workplace control parameters.

8.2. Exposure Controls

Appropriate Engineering Controls

: Use this product preferably in a closed system, or use process enclosures, local exhaust ventilation or other engineering controls to minimize airborne exposure.

Personal Protective Equipment

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



Materials for Protective Clothing

: Chemically resistant materials and fabrics.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hand Protection	: Material: Nitrile rubber/Nitrile latex (NBR) Break-through time: >= 480 min Material: Fluorinated rubber (FKM) Break-through time: >= 480 min Guideline: Source: GESTIS substance database (hazardous substance information system of commercial professional associations)Additional Information: The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use., Use impermeable gloves.
Eye Protection	: Use chemical splash goggles or face shield.
Skin and Body Protection	: A safety shower and eye wash fountain should be readily available. To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.
Respiratory Protection	: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.
Other Information	: When using, do not eat, drink or smoke. Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Colorless
Odor	: Fruity
Odor Threshold	: No data available
pH	: No data available
Relative Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: < -180 °C (OECD TG 102)
Boiling Point	: 150 °C (1,013 hPa) (DIN 51 751)
Flash Point	: 39 °C (DIN EN ISO 13736)
Self-ignition Temperature	: 267 °C (ASTM E 659)
Decomposition Temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor Pressure	: approx. 3 hPa (20 °C)
Relative Vapor Density at 20 °C	: No data available
Density	: 0.93 g/cm3 (20 °C) (DIN 51757)
Specific Gravity	: No data available.
Solubility	: Water: not miscible decomposition by hydrolysis
Log Pow	: No data available

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Log Kow	: No data available
Viscosity, Kinematic	: No data available
Viscosity, Dynamic	: 0.8 mPa.s (20 °C, DIN 53 015)
Explosive Properties	: Vapors can form explosive mixtures with air. not explosive
Oxidizing Properties	: No data available
Explosive Limits	: Not Explosive

9.2. Other Information

VOC content : Not available

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:** Reacts with water.
- 10.4 Conditions to Avoid:** Vapours can form explosive mixtures with air. Keep away from heat and sources of ignition.
- 10.5 Incompatible Materials:** Water. atmospheric humidity
- 10.6 Hazardous Decomposition Products:** Methanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

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

Trimethoxy(2-methylpropyl)silane (18395-30-7)	
LD50 Rat	> 2000 mg/kg
Oral Rat	>= 1,000 mg/kg
Rat Inhalation	> 2000 mg/kg
Rabbit	Skin irritation, No Eye irritation
Guinea pig	Not a skin sensitizer.

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: Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.

Reproductive Toxicity: No data available.

Specific Target Organ Toxicity (Single Exposure): Narcotic effect.

Specific Target Organ Toxicity (Repeated Exposure): no evidence for hazardous properties

Aspiration Hazard: No evidence of aspiration toxicity

Symptoms/Injuries After Inhalation: No Data Available

Symptoms/Injuries After Skin Contact: No Data Available

Symptoms/Injuries After Eye Contact: No Data Available.

Symptoms/Injuries After Ingestion: No Data Available.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Chronic Symptoms: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General : Acute hazards to the aquatic environment

12.2. Persistence and Degradability

SilaneSeal 100 (337)

Persistence and Degradability

Biodegradation: 47%

12.3. Bioaccumulative Potential

SilaneSeal 100 (337)

Bioaccumulative Potential

Low. Log Kow: 2.1 20 °C (QSAR)

12.4. Mobility in Soil: Adsorption on the floor: low.

12.5. Other Adverse Effects

Other Information

: The data we have at our disposal do not necessitate identification concerning environmental hazard..

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Waste must be disposed of in accordance with federal, state, provincial and local regulations. Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied. Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

Ecology – Waste Materials: Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous. Other countries: observe the national regulations.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number: UN 1993

14.2 UN Proper Shipping Name: Flammable liquids, n.o.s. (trimethoxy(2-methylpropyl)silane)

14.3 Transport hazard class(es): 3

14.4 Packing Group: III

14.5 Environmental hazards (Marine pollutant): None

14.6 Special precautions for user: No

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations:

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

For professional use only. Not for sale to or use by the general public.

LIMITED WARRANTY We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Flammable (gases, aerosols, liquids, or solids), Skin Corrosion or Irritation, Specific target organ toxicity (single or repeated exposure)

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304

Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

SARA 311/312 Hazardous Chemical

Chemical Identity

Threshold Planning Quantity

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

15.2 US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

KAUFMAN

PRODUCT
INFORMATION

KAUFMAN
PRODUCTS
INC.

3811 CURTIS
AVENUE

BALTIMORE,
MARYLAND
21226-1131

410-354-8600
800-637-6372
www.kaufman
products.net

SilaneSeal 100 (337)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

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.

LIMITED WARRANTY

We warrant our products to be of good quality and will replace material proved defective. Satisfactory results depend not only upon quality products, but also upon many factors beyond our control. Therefore, except for such replacement, Kaufman Products, Inc makes no warranty or guarantee, expressed or implied, including warranties of fitness or merchantability, respecting its products, and Kaufman Products, Inc shall have no other liability with respect hereto. User shall determine the suitability of the product or the intended use and assume all risks and liability in connection thereto. Our salespeople, distributors and their salespeople have no authority to change the printed recommendations concerning the use of our products.

DISCLAIMER

The information provided in this Safety Data Sheet is believed to be accurate to the best of our knowledge, information and belief at the date of its publication. The information given is designed solely as a guide for the safe handling, use, processing, storage, transportation, disposal, and release by a person trained in chemical handling. This is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified on either the latest version of our Product Data Sheet or Safety Data Sheet. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.