



SAFETY DATA SHEET

RECTORSEAL® SILICONE SEALANT

General purpose silicone sealant

SECTION 1 – PRODUCT AND COMPANY INFORMATION

Product Name
RectorSeal® Silicone Sealant

Product Codes
57505, 57506

Chemical Family
Organic/Inorganic

Use
Silicone sealant and adhesive

Manufacturer's Name
The RectorSeal Corporation
2601 Spenwick Drive
Houston, Texas 77055 USA

Date of Validation
January 23, 2015

Date of Preparation
March 6, 2013

HMIS Codes
Health 1
Flammability 1
Reactivity 1
PPI B

Emergency Telephone No.
Chemtrec 24 Hours
(800)-424-9300 USA
(703)-527-3887 International

Technical Service Telephone No.
(800)-231-3345 or (713)-263-8001

SECTION 2 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

OSHA Hazards
Irritant

GHS Classification
Acute toxicity, Oral (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

RECTORSEAL® SILICONE SEALANT

GHS Label elements, including precautionary statements



GHS07: Harmful/Irritant
Signal Word: **Warning**

Hazard statement(s)

- H303 - May be harmful if swallowed.
- H315 - Causes skin irritation.
- H319 - Causes serious eye irritation.
- H335 - May cause respiratory irritation.

Precautionary statement(s)

- P260 - Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
- P264 - Wash hands thoroughly after handling.
- P280 - Wear protective gloves/ protective clothing.
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P307 + P311 - IF exposed: Call a POISON CENTER or doctor/ physician.

Summary Of Acute Hazards

Vapor evolved during product curing may be irritating to nose and throat. Eye contact may cause intense irritation and injury. May cause skin irritation.

Route Of Exposure, Signs And Symptoms

INHALATION

Irritation to respiratory system from vapor evolved during product curing.

EYE CONTACT

Contact may cause intense irritation and injury.

SKIN CONTACT

May cause skin irritation.

INGESTION

May cause gastrointestinal distress.

SUMMARY OF CHRONIC HAZARDS

Repeated contact may cause dermatitis, eye irritation, or bronchitis.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Individuals with pre-existing or chronic diseases of the eyes, skin, respiratory system, cardiovascular system, gastrointestinal system, liver, or kidneys may have increased susceptibility to excessive exposure.

RECTORSEAL® SILICONE SEALANT

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient:	Methyltriacetoxysilane
Percentage by weight:	1-5
CAS Number:	4253-34-3
EC#:	224-221-9
Ingredient:	Ethyltriacetoxysilane
Percentage by weight:	1-5
CAS Number:	17689-77-9
EC#:	N/D
Ingredient:	Silica
Percentage by weight:	10-30
CAS Number:	7631-86-9
EC#:	262-373-8
Ingredient:	Octamethylcyclotetrasiloxane
Percentage by weight:	0.1-1
CAS Number:	556-67-2
EC#:	209-136-7

SECTION 4 – FIRST AID MEASURES

If inhaled:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on skin:	Wash with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.
If in eyes:	Immediately flush with large amounts of water for at least 15 minutes. Get prompt medical attention.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Foam, dry chemical, carbon dioxide or water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

Unusual Fire And Explosion Hazards: None.

RECTORSEAL® SILICONE SEALANT

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Scrape up spills to prevent footing hazard. Avoid flushing into sewers, drains, waterways and soil. Wear protective clothing during clean up.

SECTION 7 – HANDLING AND STORAGE

Precautions To Be Taken In Handling And Storing: Store in cool place. Keep container closed and upright when not in use.

Other Precautions: Provide adequate ventilation during use to keep ambient air acetic vapor concentration below TLV or use respirator protection.

Comment: When heated to temperatures above 302°F (150°C) in the presence of air, product can form formaldehyde vapors. **Formaldehyde is a potential cancer hazard;** a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible exposure limit for formaldehyde. Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient	Units
Methyltriacetoxysilane	
ACGIH TLV:	10 ppm
OSHA PEL:	10 ppm
Ethyltriacetoxysilane	
ACGIH TLV:	10 ppm
OSHA PEL:	10 ppm
Silica	
ACGIH TLV:	10 mg/m ³
OSHA PEL:	6 mg/m ³
Octamethylcyclotetrasiloxane	
ACGIH TLV:	N/D
OSHA PEL:	N/D

COMMENT: TVL for acetoxysilane based on acetic acid formed during curing on exposure to water, moisture, or humid air. Observe limits for acetic acid, formed during curing on exposure to water or humid air. OSHA PEL: TWA 10 ppm. ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Respiratory Protection (Specify Type): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators until vapors from cured product have dissipated.

Ventilation – Local Exhaust: Maintain air flow during application.

RECTORSEAL® SILICONE SEALANT

Special: N/A

Mechanical (General): Acceptable

Other: N/A

Protective Gloves: Coveralls recommended.

Eye Protection: Safety glasses (ANSI Z-87.1 or equivalent)

Other Protective Clothing Or Equipment: Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	212°F (100°C) @ 760 mmHg
Specific gravity (H ₂ O = 1):	1.03
Vapor pressure (mmHg):	< 5 mmHg
Melting point:	N/A
Vapor Density (Air = 1):	N/A
Evaporation rate (Ethyl Acetate = 1):	N/A
Appearance/Odor:	Paste/Acetic acid vinegar odor
Solubility in water:	Insoluble
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	32 g/L
Flash point:	None
Lower explosion limit:	N/D
Upper explosion limit:	N/D

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Exposure to air or moisture until ready to use.

Incompatibility (Materials To Avoid): Oxidizing material can cause a reaction. Air or moisture causes curing and acetic acid vapor forms.

Hazardous Decomposition Products: Silicone dioxide, carbon dioxide, and traces on incompletely burned carbon products, including formaldehyde.

Hazardous Polymerization: Will not occur.

RECTORSEAL® SILICONE SEALANT

SECTION 11 – TOXICOLOGY INFORMATION

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA Listed carcinogen.

Toxicology Data

Ingredient Name

Methyltriacetoxysilane

Oral-Rat LD50: 2060 mg/kg

Inhalation-Rat LC50: N/D

Ethyltriacetoxysilane

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

Silica

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

Octamethylcyclotetrasiloxane

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

Ingredient Name:	Methyltriacetoxysilane
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

Ingredient Name:	Ethyltriacetoxysilane
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

RECTORSEAL® SILICONE SEALANT

Ecological Data (cont.)

Ingredient Name:	Silica
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

Ingredient Name:	Octamethylcyclotetrasiloxane
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated solid waste

Disposal Method: Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

SECTION 14 – TRANSPORTATION INFORMATION

DOT:	Non-regulated
Ocean (IMDG):	Non-regulated
Air (IATA):	Non-regulated

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name:	Methyltriacetoxysilane
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

RECTORSEAL® SILICONE SEALANT

Ingredient Name: **Ethyltriacetoxysilane**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 1,000 lbs.

RCRA Code N/A

Ingredient Name: **Silica**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 100 lbs.

RCRA Code N/A

Ingredient Name: **Octamethylcyclotetrasiloxane**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 100 lbs.

RCRA Code N/A

SECTION 16 – OTHER INFORMATION

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). The information herein is given in good faith, but no warranty, expressed or implied is made.

Consult RectorSeal for further information: (713) 263-8001



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Ingredient:	Silica
Percentage by weight:	10-30
CAS Number:	7631-86-9
EC#:	262-373-8
Ingredient:	Octamethylcyclotetrasiloxane
Percentage by weight:	0.1-1
CAS Number:	556-67-2
EC#:	209-136-7

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If inhaled:	If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.
If on skin:	Wash with soap and water. Remove contaminated clothing. If irritation occurs, seek medical attention.
If in eyes:	Immediately flush with large amounts of water for at least 15 minutes. Get prompt medical attention.
If swallowed:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Foam, dry chemical, carbon dioxide or water fog.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus (SCBA) and other protective clothing. Hazardous decomposition products possible (see Section 10).

Unusual Fire And Explosion Hazards: None.

RECTORSEAL® SILICONE SEALANT

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled: Scrape up spills to prevent footing hazard. Avoid flushing into sewers, drains, waterways and soil. Wear protective clothing during clean up.

SECTION 7 – HANDLING AND STORAGE

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Comment: When heated to temperatures above 302°F (150°C) in the presence of air, product can form formaldehyde vapors. **Formaldehyde is a potential cancer hazard;** a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible exposure limit for formaldehyde. Avoid prolonged or repeated contact with skin or clothing. Empty containers may contain residues; treat as if full and observe all products precautions. Do not reuse empty containers.

KEEP OUT OF REACH OF CHILDREN.

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OSHA PEL:	10 ppm
Ethyltriacetoxysilane	
ACGIH TLV:	10 ppm
OSHA PEL:	10 ppm
Silica	
ACGIH TLV:	10 mg/m ³
OSHA PEL:	6 mg/m ³
Octamethylcyclotetrasiloxane	
ACGIH TLV:	N/D
OSHA PEL:	N/D

COMMENT: TVL for acetoxysilane based on acetic acid formed during curing on exposure to water, moisture, or humid air. Observe limits for acetic acid, formed during curing on exposure to water or humid air. OSHA PEL: TWA 10 ppm. ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Respiratory Protection (Specify Type): In confined, poorly ventilated areas, use NIOSH/MSHA approved air purifying or supplied air respirators until vapors from cured product have dissipated.

Ventilation – Local Exhaust: Maintain air flow during application.

RECTORSEAL® SILICONE SEALANT

Special: N/A

Mechanical (General): Acceptable

Other: N/A

Protective Gloves: Coveralls recommended.

Eye Protection: Safety glasses (ANSI Z-87.1 or equivalent)

Other Protective Clothing Or Equipment: Coveralls recommended.

Work/Hygienic Practices: Where use can result in skin contact, wash exposed areas thoroughly before eating, drinking, smoking, or leaving work area. Launder contaminated clothing before reuse.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling point:	212°F (100°C) @ 760 mmHg
Specific gravity (H ₂ O = 1):	1.03
Vapor pressure (mmHg):	< 5 mmHg
Melting point:	N/A
Vapor Density (Air = 1):	N/A
Evaporation rate (Ethyl Acetate = 1):	N/A
Appearance/Odor:	Paste/Acetic acid vinegar odor
Solubility in water:	Insoluble
Volatile Organic Compounds (VOC) Content (theoretical percentage by weight):	32 g/L
Flash point:	None
Lower explosion limit:	N/D
Upper explosion limit:	N/D

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Conditions To Avoid: Exposure to air or moisture until ready to use.

Incompatibility (Materials To Avoid): Oxidizing material can cause a reaction. Air or moisture causes curing and acetic acid vapor forms.

Hazardous Decomposition Products: Silicone dioxide, carbon dioxide, and traces on incompletely burned carbon products, including formaldehyde.

Hazardous Polymerization: Will not occur.

RECTORSEAL® SILICONE SEALANT

SECTION 11 – TOXICOLOGY INFORMATION

Chronic Health Hazards

No ingredient in this product is an IARC, NTP or OSHA Listed carcinogen.

Toxicology Data

Ingredient Name

Methyltriacetoxysilane

Oral-Rat LD50: 2060 mg/kg

Inhalation-Rat LC50: N/D

Ethyltriacetoxysilane

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

Silica

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

Octamethylcyclotetrasiloxane

Oral-Rat LD50: N/D

Inhalation-Rat LC50: N/D

SECTION 12 – ECOLOGICAL INFORMATION

Ecological Data

Ingredient Name: **Methyltriacetoxysilane**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

Ingredient Name: **Ethyltriacetoxysilane**

Food Chain Concentration Potential N/D

Waterfowl Toxicity N/D

BOD N/D

Aquatic Toxicity N/D

RECTORSEAL® SILICONE SEALANT

Ecological Data (cont.)

Ingredient Name:	Silica
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

Ingredient Name:	Octamethylcyclotetrasiloxane
Food Chain Concentration Potential	N/D
Waterfowl Toxicity	N/D
BOD	N/D
Aquatic Toxicity	N/D

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Classification: Non-regulated solid waste

Disposal Method: Approved landfill

Waste from this product is not considered hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

SECTION 14 – TRANSPORTATION INFORMATION

DOT:	Non-regulated
Ocean (IMDG):	Non-regulated
Air (IATA):	Non-regulated

SECTION 15 – REGULATORY INFORMATION

Regulatory Data

Ingredient Name:	Methyltriacetoxysilane
SARA 313	No
TSCA Inventory	Yes
CERCLA RQ	N/A
RCRA Code	N/A

RECTORSEAL® SILICONE SEALANT

Ingredient Name: **Ethyltriacetoxysilane**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 1,000 lbs.

RCRA Code N/A

Ingredient Name: **Silica**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 100 lbs.

RCRA Code N/A

Ingredient Name: **Octamethylcyclotetrasiloxane**

SARA 313 Yes

TSCA Inventory Yes

CERCLA RQ 100 lbs.

RCRA Code N/A

SECTION 16 – OTHER INFORMATION

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Consult RectorSeal for further information: (713) 263-8001