

SAFETY DATA SHEET

FLUOROSILICONE ADHESIVE/SEALANT

Version: 1.0	Revision Date: 04/2014	MSDS Number: GHS-SDS-007302-FS	Date Completed: 11/2015
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SECTION 1. IDENTIFICATION

Product Name: Fluorosilicone Adhesive/Sealant

Manufacturer or supplier's details

Company name of supplier: JIT Silicones Plus

Address: 5 Industrial Park Drive
Oakdale, PA 15071

Telephone: 855-548-7587

Emergency Telephone: 24 Hour Emergency Telephone:
CHEMTREC (USA): (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use: Sealing and bonding application requiring solvent and/or fuel resistance. For professional use only.

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SECTION 2. HAZARDS IDENTIFICATION

GHS Classification:	Skin Corr. 1C	H314
	Eye Dam. 1	H318
	STOT SE 3	H335
	Aquatic Acute 3	H402

Label elements:

GHS-US labeling:

Hazard pictograms (GHS-US)



Signal Word (GHS-US):

Hazardous Statements (GHS-US):

Danger

H314 – Causes severe skin burns and eye damage.

H318 – Causes serious eye damage.

H335 – May cause respiratory irritation.

H402 – Harmful to aquatic life.

Precautionary Statements:

P260 – Do not breathe dust, fume, mist, spray, vapors.

P261 – Avoid breathing vapors, mist, spray.

P264 – Wash hands, forearms, and exposed areas thoroughly after handling.

P271 – Use only outdoors or in a well-ventilated area.

P273 – Avoid release to the environment.

P280 – Wear eye protection, protective clothing, protective gloves.

P301+P330+P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

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

P304+P340 – IF INHALED: Remove exposed to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 – If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTER or doctor/physician.

P312 – Call a POISON CENTER/doctor/physician if you feel unwell.

P321 – Specific treatment (see Section 4).

P363 – Wash contaminated clothing before reuse.

P403+P233 – Store in a well-ventilated place. Keep container tightly

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P260 – Do not breathe dust, fume, mist, spray, vapors.
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P301+P330+P331 – IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance: Not applicable.

3.2. Mixture:

Name	Product Identifier	%	Classification (GHS-US)
Siloxanes and Silicones, methyl 3, 3, 3-trifluoropropyl, hydroxyl-terminated	(CAS No) 68607-77-2	75 – 80	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Dimethyl silicone polymer with silica	(CAS No) 67762-90-7	10 – 15	Not classified
Silanetriol, ethyl-, triacetate	(CAS No) 17689-77-9	5 – 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318
Titanium dioxide	(CAS No) 13463-67-7	<5	Skin Irrit. 2, H315
Dibutyltin diacetate	(CAS No) 1067-33-0	<0.1	Acute Tox. 2 (Oral), H300 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Muta. 2, H341 Repr. 1B, H360 STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
For 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).

First-aid measures after inhalation:

If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

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First-aid measures after skin contact: Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.

First-aid measures after eye contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

First-aid measures after ingestion: Seek medical attention immediately. Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Causes severe skin burns and eye damage. May cause respiratory irritation.
Symptoms/injuries after inhalation: May cause respiratory irritation.
Symptoms/injuries after skin contact: Corrosive. Causes burns.
Symptoms/injuries after eye contact: Causes serious eye damage.
Symptoms/injuries after ingestion: Ingestion is likely to be harmful or have adverse effects.

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. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media: Do not use a heavy water stream. Application of water stream to hot product may cause frothing and increase fire intensity.

5.2 Special hazards arising from the substance or mixture

Fire hazard: Not considered flammable but will burn at high temperatures.
Explosion hazard: Product is not explosive.
Reactivity: May be corrosive to metals.

5.3 Advice for firefighters:

Precautionary measures fire: Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present.
Firefighting instructions: Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information: Refer to Section 9 for flammability properties.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

General measures: Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor,

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mist, gas).
Do not allow product to spread into the environment.

6.1.1. For non-emergency personnel:

Protective equipment: Use appropriate personal protection equipment (PPE).
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:

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Absorb and/or contain spill with inert material, then place in suitable container.

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:

Additional hazards when processed: When heated, material emits irritating fumes. Any proposed use of this product in elevated temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.
Hygiene measures: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

7.2. Conditions for safe storage, including any incompatibilities:

Technical measures: Comply with applicable regulations.
Storage conditions: Store in original container or corrosive resistant and/or lined container. Store in a dry, cool and well-ventilated place. Keep container tightly closed.
Incompatible products: Strong acids, strong bases, strong oxidizers.
Storage area: Store locked up.

7.3. Specific end use(s):

For sealing and bonding applications requiring solvent and/or fuel resistance. For professional use only.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

General measures: Do not get in eyes, on skin, or on clothing. Do NOT breathe (vapor, mist, gas).
Do not allow product to spread into the environment.

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Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³
USA OSHA	OSHA PEL (TWA) (mg/m ³)	15 mg/m ³

8.2. Exposure controls:

Appropriate engineering controls:	Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.
Personal protective equipment:	Gloves. Safety glasses. Protective clothing. Insufficient ventilation: wear respiratory protection. Face shield.
Material for protective clothing:	Corrosion proof clothing.
Hand protection:	Wear chemically resistant protective gloves.
Eye protection:	Chemical goggles or safety glasses. A full face shield is recommended.
Skin and body protection:	Wear suitable protective clothing. Wash contaminated clothing before reuse.
Respiratory protection:	Use a NIOSH-approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Environmental exposure controls:	Do not allow the product to be released into the environment.
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:	White
Odor:	Acetic acid
Odor Threshold:	No data available
pH:	No data available
Relative evaporation rate (butyl acetate=1)	No data available
Melting point:	No data available

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Freezing Point:	No data available
Boiling Point:	No data available
Flash Point:	>275°C (>527°F)
Auto-ignition Temperature:	No data available
Decomposition Temperature:	No data available
Flammability (solid, gas)	No data available
Vapor pressure:	No data available
Relative Vapor density at 20°:	No data available
Specific Gravity:	1.4
Solubility:	No data available
Partition coefficient: n-octano/water:	No data available
Viscosity:	No data available

9.2. Other information

VOC content: < 1%

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

May be corrosive to metals.

10.2. Chemical stability

Stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Silicon oxides. Carbon oxides (CO, CO₂). Corrosive vapors. Will decompose above 150°C (>300°F) releasing formaldehyde vapors. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory

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sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:	Not classified
Dibutyltin diacetate (1067-33-0)	
LD50 oral rat	32 mg/kg
Silanetriol, ethyl-, triacetate (17689-77-9)	
ATE (oral)	500,000 mg/kg body weight
Titanium dioxide (13463-67-7)	
LD50 oral rat:	>10,000 mg/kg
Skin corrosion/irritation:	Causes severe skin burns and eye damage.
Serious eye damage/irritation:	Causes serious eye damage.
Respiratory or skin sensitization:	Not classified
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Titanium dioxide (13463-67-7)	
IARC group:	2B
Reproductive toxicity:	Not classified
Specific target organ toxicity (single exposure):	May cause respiratory irritation.
Specific target organ toxicity (repeated exposure):	Not classified
Aspiration hazard:	Not classified
Symptoms/injuries after inhalation:	May cause respiratory irritation.
Symptoms/injuries after skin contact:	Corrosive. Causes burns.
Symptoms/injuries after eye contact:	Causes serious eye damage.
Symptoms/injuries after ingestion:	Ingestion is likely to be harmful or have adverse effects.

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology – general: Harmful to aquatic life.

Dibutyltin diacetate (1067-33-01)	
LC50 fish 1	3.1 mg/l
Er50 (algae)	0.035 mg/l
NOEC (acute)	0.65 mg/l

12.2. Persistence and degradability

FS-3730	
Persistence and degradability:	Not established.
Dibutyltin diacetate (1067-33-0)	
Persistence and degradability:	Not established.

12.3. Bioaccumulative potential

FS-3730	
Bioaccumulative potential:	Not established.
Dibutyltin diacetate (1067-33-0)	
Bioaccumulative potential:	Not established.

12.4. Mobility in soil

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No additional information available.

12.5. Other adverse effects

Other information:

Avoid release to the environment.

SECTION 13. DISPOSAL PROCEDURES

13.1. Waste treatment methods:

Waste disposal recommendations:

Dispose of waste material in accordance with all local, regional, national, and international regulations.

Ecology – waste materials:

Avoid release to the environment.

SECTION 14. TRANSPORT INFORMATION

In accordance with DOT/ IMDG / IATA

The below information does not apply to packages smaller than 0.5L (16.9 ounces).

14.1. UN number

UN-No.(DOT):

1760

DOT NA no.

UN1760

14.2. UN proper shipping name

DOT Proper Shipping Name:

Corrosive liquids, n.o.s. (Contains Triacetoxymethylsilane and Dibutyltin Diacetate)

Department of Transportation (DOT) Hazard

Classes:

8 – Class 8 – Corrosive material 49 CFR 173.136

Hazard labels (DOT):

8 – Corrosive



DOT Symbols:

G – Identifies PSN requiring a technical name

Packing group (DOT)

III – Minor Danger

DOT Special Provisions (49 CFR 172.102)

B2, IB2, T11, TP2, TP27

DOT Packaging Exceptions (49 CFR 173.xxx):

154

DOT Packaging Non Bulk (49 CFR 173.xxx):

202

DOT Packaging Bulk (49 CFR 173.xxx):

242

Marine pollutant:

No

14.3. Additional Information

Other information:

No supplementary information available.

Transport by sea

DOT Vessel Stowage Location:

B

DOT Vessel Stowage Other:

40

MFAG-No:

154

Air transport

DOT Quantity Limitations Passenger

aircraft/rail (49 CFR 173.27):

1L

DOT Quantity Limitations Cargo aircraft only
(49 CFR 175.75):

30L

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SECTION 15. REGULATORY INFORMATION

15.1. US Federal regulations

FS-3730	
SARA Section 311/312 Hazard Classes:	Immediate (acute) health hazard Reactive hazard
Dibutyltin diacetate (1067-33-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
Siloxanes and Silicones, methyl 3, 3, 3-trifluoropropyl, hydroxyl-terminated (68607-77-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
Silanetriol, ethyl-, triacetate (17689-77-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
Dimethyl silicone polymer with silica (67762-90-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	
Titanium dioxide (13463-67-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory.	

15.2. US State regulations

Titanium dioxide (13463-67-7)	
U.S. – California – Proposition 65 – Carcinogens List:	WARNING: This product contains chemicals known to the State of California to cause cancer.
Dibutyltin diacetate (1067-33-0)	
U.S. – Massachusetts – Right To Know List	
U.S. – Texas – Effects Screening Levels – Long Term	
U.S. – Texas – Effects Screening Levels – Short Term	
Silanetriol, ethyl-, triacetate (17689-77-9)	
U.S. – Texas – Effects Screening Levels – Long Term	
U.S. – Texas – Effects Screening Levels – Short Term	
Dimethyl silicone polymer with silica (67762-90-7)	
U.S. – Texas – Effects Screening Levels – Long Term	
U.S. – Texas – Effects Screening Levels – Short Term	
Titanium dioxide (13463-67-7)	
U.S. – Connecticut – Hazardous Air Pollutants – HLVs (30 min)	
U.S. – Connecticut – Hazardous Air Pollutants – HLVs (8 hr)	
U.S. – Idaho – Occupational Exposure Limits – TWAs	
U.S. – Illinois – Toxic Air Contaminant Carcinogens	
U.S. – Massachusetts – Right To Know List	
U.S. – Michigan – Occupational Exposure Limits – TWAs	
U.S. – Minnesota – Chemicals of High Concern	
U.S. – Minnesota – Hazardous Substance List	
U.S. – Minnesota – Permissible Exposure Limits – TWAs	
U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) – 24 Hour	
U.S. – New Hampshire – Regulated Toxic Air Pollutants – Ambient Air Levels (AALs) – Annual	
U.S. – New Jersey – Right to Know Hazardous Substance List	
U.S. – New York – Occupational Exposure Limits – TWAs	
U.S. – North Dakota – Air Pollutants – Guideline Concentrations – 8-Hour	
U.S. – Oregon – Permissible Exposure Limits – TWAs	
U.S. – Pennsylvania – RTK (Right to Know) List	
U.S. – Tennessee – Occupational Exposure Limits – TWAs	

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U.S. – Texas – Effects Screening Levels – Long Term U.S. – Texas – Effects Screening Levels – Short Term U.S. – Vermont – Permissible Exposure Limits – TWAs U.S. – Washington – Permissible Exposure Limits – STELs U.S. – Washington – Permissible Exposure Limits - TWAs

SECTION 16. OTHER INFORMATION

Revision date: 04/01/2014

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

Full text of H-phrases: see section 16

Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard Category 1
Aquatic Acute 3	Hazardous to the aquatic environment – Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Muta 2	Germ cell mutagenicity Category 2
Repr. 1B	Reproductive toxicity Category 1B
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1B	Skin sensitization Category 1B
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 1	Specific target organ toxicity (single Exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H300	Fatal if swallowed
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H360	May damage fertility or the unborn child
H370	Causes damage to organs
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects

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NFPA health hazard:	3 – Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard:	1 – Must be preheated before ignition can occur.
NFPA reactivity:	0 – Normally stable, even under fire exposure conditions, and are not reactive with water.



The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.