

## SECTION 1: Identification

### 1.1. Product Identifier

Product Form Mixture  
Product Name FS-3730  
Synonyms Fluorosilicone Adhesive

### 1.2. Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance/Mixture For professional use only.

### 1.3. Details of the Supplier of the Safety Data Sheet

NuSil Technology LLC  
1050 Cindy Lane  
Carpinteria, California 93013  
USA  
(805) 684-8780  
[ehs@nusil.com](mailto:ehs@nusil.com)  
[www.nusil.com](http://www.nusil.com)

### 1.4. Emergency Telephone Number

Emergency Number 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime)

## SECTION 2: Hazards Identification

### 2.1. Classification of the Substance or Mixture

#### GHS-US Classification

Skin Corr. 1B H314  
Eye Dam. 1 H318  
STOT SE 3 H335  
Aquatic Acute 3 H402

Full text of hazard classes and H-statements : see section 16

### 2.2. Label Elements

#### GHS-US Labeling

Hazard Pictograms (GHS-US)



GHS05

GHS07

Signal Word (GHS-US)

Danger

Hazard Statements (GHS-US)

H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H335 - May cause respiratory irritation  
H402 - Harmful to aquatic life

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### Precautionary Statements (GHS-US)

P260 - Do not breathe mist, spray, vapors.  
P264 - Wash hands, forearms and face 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, face shield.  
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person 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, a doctor.  
P321 - Specific treatment (see Section 4 on this SDS).  
P363 - Wash contaminated clothing before reuse.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: Composition/Information On Ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixture

Name	Product Identifier	%	GHS-US Classification
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy-terminated	(CAS-No.) 68607-77-2	70 - 90	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9	< 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318
Titanium dioxide	(CAS No) 13463-67-7	< 5	Not classified

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	Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
First-aid Measures After Skin Contact	Remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
First-aid Measures After Eye Contact	Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
First-aid Measures After Ingestion	Rinse mouth. Do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

### 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	Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact	Causes severe irritation which will progress to chemical burns.
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms	None expected under normal conditions of use.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Suitable Extinguishing Media	: Water spray, dry chemical, foam, carbon dioxide.
Unsuitable Extinguishing Media	: Do not use a heavy water stream. Use of heavy stream of water may spread fire. 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 may burn at high temperatures.
Explosion Hazard	Product is not explosive.
Reactivity	May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 5.3. Advice for Firefighters

Precautionary Measures Fire	Exercise caution when fighting any chemical fire.
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Firefighting Instructions	Do not allow run-off from fire fighting to enter drains or water sources. Do not breath fumes from fires or vapors from decomposition. Use water spray or fog for cooling exposed containers.
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	Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.
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#### 6.1.1. For Non-Emergency Personnel

Protective Equipment	Use appropriate personal protective 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. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials 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	Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Contact competent authorities after a spill. Transfer spilled material to a suitable container for disposal.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: Handling And Storage

### 7.1. Precautions for Safe Handling

Additional Hazards When Processed	May release corrosive vapors.
Precautions for Safe Handling	Avoid all eyes and skin contact and do not breathe vapor and mist.
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.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures	Comply with applicable regulations.
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### Storage Conditions

Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Store locked up. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store in original container or corrosive resistant and/or lined container.

### Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 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

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), or OSHA (PEL).

Titanium dioxide (13463-67-7)		
USA ACGIH	ACGIH TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	15 mg/m <sup>3</sup> (total dust)

### 8.2. Exposure Controls

Appropriate Engineering Controls

Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Gloves. Protective goggles. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials For Protective Clothing

Corrosion-proof clothing.

Hand Protection

Wear chemically resistant protective gloves.

Eye And Face Protection

Chemical safety goggles and face shield.

Skin And Body Protection

Wear suitable protective clothing.

Respiratory Protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

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

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Odor	Acetic acid
Odor Threshold	No data available
pH	No data available
Evaporation Rate	No data available
Melting Point	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	> 135 °C (275 °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°C	No data available
Relative Density	No data available
Specific Gravity	> 1
Solubility	No data available
Partition Coefficient n-Octanol/Water	No data available
Viscosity	No data available

### 9.2. Other Information

VOC Content < 1 %

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity

May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause a violent reaction.

### 10.2. Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials

Strong acids, strong bases, strong oxidizers.

### 10.6. Hazardous Decomposition Products

Thermal decomposition generates : Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. 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 sensitizer. Formaldehyde can also cause respiratory and eye irritation.

## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

Acute Toxicity : Not classified

Silanetriol, ethyl-, triacetate (17689-77-9)	
LD50 Oral Rat	1460 mg/kg
Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg

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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
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

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	Irritation of the respiratory tract and the other mucous membranes. May be corrosive to the respiratory tract.
Symptoms/Injuries After Skin Contact	Causes severe irritation which will progress to chemical burns.
Symptoms/Injuries After Eye Contact	Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.
Chronic Symptoms	None expected under normal conditions of use.

## SECTION 12: Ecological Information

### 12.1. Toxicity

Ecology - General Harmful to aquatic life.

Titanium dioxide (13463-67-7)	
LC50 fish 1	> 1000 ml/l (Exposure Time: 96h - Species: Pimephales promelas (static))

### 12.2. Persistence and Degradability

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Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

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Bioaccumulative Potential	Not established.

### 12.4. Mobility In Soil

No additional information available

### 12.5. Other Adverse Effects

Other Information Avoid release to the environment.

## SECTION 13: Disposal Considerations


### 13.1. Waste Treatment Methods

Waste Disposal Recommendations	Dispose of contents/container in accordance with local, regional, national, and international regulations.
Additional Information	Container may remain hazardous when empty. Continue to observe all precautions.
Ecology - Waste Materials	Avoid release to the environment.


## SECTION 14: Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.


### 14.1. In Accordance with DOT

Proper Shipping Name	CORROSIVE LIQUIDS, N.O.S. (Contains: Silanetriol, ethyl-, triacetate)	
Hazard Class	8	
Identification Number	UN1760	
Label Codes	8	
Packing Group	II	
ERG Number	154	

### 14.2. In Accordance with IMDG

Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Contains: Silanetriol, ethyl-, triacetate)	
Hazard Class	8	
Identification Number	UN1760	
Packing Group	II	
Label Codes	8	
EmS-No. (Fire)	F-A	
EmS-No. (Spillage)	S-B	
MFAG Number	154	

### 14.3. In Accordance with IATA

Proper Shipping Name	CORROSIVE LIQUID, N.O.S. (Contains: Silanetriol, ethyl-, triacetate)	
Packing Group	II	
Identification Number	UN1760	
Hazard Class	8	
Label Codes	8	
ERG Code (IATA)	8L	

## SECTION 15: Regulatory Information

### 15.1. US Federal Regulations

All components in this mixture are listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, have been exempted, are not listed, not disclosed due to CBI requirements or disclosure rules according to the relevant regulation.



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SARA Section 311/312 Hazard Classes	Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Skin corrosion or Irritation

### 15.2. US State Regulations

Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy-terminated (68607-77-2)	
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	
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 RTK - 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 RTK - 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. - California - Safer Consumer Products - Initial List of Candidate Chemicals and Chemical Groups RTK - U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Tennessee - Occupational Exposure Limits - TWAs 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	
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.

## SECTION 16: Other Information, Including Date of Preparation or Last Revision

Date of Preparation or Latest Revision      03/07/2019

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### Other Information

This Document Has Been Prepared In Accordance With The Sds Requirements Of The Osha Hazard Communication Standard 29 Cfr 1910.1200

### GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

### NFPA Health Hazard

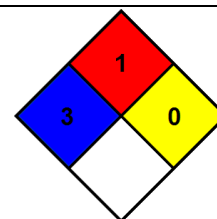
3 - Materials that, under emergency conditions, can cause serious or permanent injury.

### NFPA Fire Hazard

1 - Materials that must be preheated before ignition can occur.

### NFPA Reactivity Hazard

0 - Material that in themselves are normally stable, even under fire conditions.



### HMIS III Rating Health

3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given

### Flammability Physical

1 Slight Hazard  
0 Minimal Hazard

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