

# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Revision date: 19/12/2018 Date of issue: 18/11/2013

Version: 3.0

# SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

#### 1.1. Product Identifier

Product form Mixture
Product Name FS1-3730

Synonyms Fluorosilicone Adhesive

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

#### 1.2.1. Relevant Identified Uses

Use of the Substance/Mixture For professional use only.

#### 1.2.2. Uses Advised Against

No additional information available

### 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

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

Classification According to Regulation (EC) No. 1272/2008 [CLP]

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

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

#### 2.2. Label Elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard Pictograms (CLP)



GHS05

Signal Word (CLP) Dange

Hazardous Ingredients Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy-

terminated; Silanetriol, ethyl-, triacetate

Hazard Statements (CLP) H314 - Causes severe skin burns and eye damage.

H335 - May cause respiratory irritation.

Precautionary Statements (CLP) P260 - Do not breathe mist, spray, vapours.

P264 - Wash hands, forearms and face thoroughly after

handling.

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

P280 - Wear eye protection, face shield, protective clothing, protective gloves.

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.

P304+P340 - IF INHALED: Remove person to fresh air and keep 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

P312 - Call a POISON CENTRE or doctor if you feel unwell.

P321 - Specific treatment (see SECTION 4 on this SDS)

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

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

EUH014 - Reacts violently with water.

**EUH-statements** 

#### 2.3. Other Hazards

Other Hazards Not Contributing to the Classification

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

# **SECTION 3: Composition/Information on Ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixture

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy-terminated	(CAS-No.) 68607-77-2	70 - 90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Silanetriol, ethyl-, triacetate	(CAS-No.) 17689-77-9 (EC-No.) 241-677-4	< 10	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: 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).

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

Ingestion POISON CENTER or doctor/physician. 4.2. Most Important Symptoms and Effects Both Acute and Delayed

Symptoms/Effects Causes severe skin burns and eye damage. May cause

respiratory irritation.

Symptoms/Effects After Irritation of the respiratory tract and the other mucous

Inhalation membranes. May be corrosive to the respiratory tract.

Symptoms/Effects After Skin Causes severe irritation which will progress to chemical burns.

Contact Symptoms/Effects After Eye

Contact

Symptoms/Effects After

Ingestion

Causes permanent damage to the cornea, iris, or conjunctiva.

May cause burns or irritation of the linings of the mouth, throat,

and gastrointestinal tract.

None expected under normal conditions of use. Chronic Symptoms

Indication of Any Immediate Medical Attention and Special Treatment Needed 4.3. If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

# **SECTION 5: Firefighting Measures**

#### **Extinguishing Media 5**.1.

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.

May react exothermically with water releasing heat. Adding an Reactivity

acid to a base or base to an acid may cause a violent

reaction.

Hazardous Decomposition Products in Case of Fire

Carbon oxides (CO, CO<sub>2</sub>). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

**Advice for Firefighters 5.3**.

Precautionary Measures Fire Firefighting Instructions

Exercise caution when fighting any chemical fire.

Do not allow run-off from fire fighting to enter drains or water sources. Do not breath fumes from fires or vapors from decompostion. Use water spray or fog for cooling exposed

containers.

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

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.

**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 May release corrosive vapors.

**Processed** 

Precautions for Safe Handling Avoid all eyes and skin contact and do not breathe vapour

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.

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.

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# 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**

#### **Control Parameters** 8.1.

No additional information available

### **Exposure Controls**

Appropriate Engineering Ensure all national/local regulations are observed. Emergency Controls eye wash fountains and safety showers should be available in

the immediate vicinity of any potential exposure. Ensure

adequate ventilation, especially in confined areas.

Gloves. Protective goggles. Protective clothing. Insufficient Personal Protective Equipment

ventilation: wear respiratory protection.









Materials for Protective Clothing

Hand Protection **Eve Protection** 

Skin and Body Protection

Respiratory Protection

Corrosion-proof clothing.

Wear chemically resistant protective gloves. Chemical safety goggles and face shield.

Wear suitable protective clothing.

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 Hazards**

#### Information on Basic Physical and Chemical Properties 9.1.

Physical State Liquid Colour Colourless Odour Acetic acid

Odour Threshold No data available На 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) No data available **Auto-Ignition Temperature Decomposition Temperature** No data available Flammability (Solid, Gas) No data available Vapour Pressure No data available Relative Vapour Density At 20 °C No data available Relative Density > 1 (water = 1) No data available Solubility

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Partition Coefficient n-Octanol/Water	No data available
Viscosity, Kinematic	No data available
Viscosity, Dynamic	No data available
Explosive Properties	No data available
Oxidising Properties	No data available
Explosive Limits	Not applicable

#### 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 vapours. 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

ACOIC TOXICITY	1401 Classified	
Silanetriol, ethyl-, triacetate (17689-77-9)		
LD50 Oral Rat	1460 mg/kg	
LD50 Oral	1462 mg/kg	
Skin Corrosion/Irritation	Causes severe skin burns and eye damage.	
Eye Damage/Irritation	Causes serious eye damage.	
Respiratory or Skin Sensitization	Not classified	

Germ Cell Mutagenicity
Carcinogenicity
Reproductive Toxicity
Not classified
Not classified
Not classified
Not classified

Specific Target Organ Toxicity May cause respiratory irritation.

(Single Exposure)

Specific Target Organ Toxicity (Repeated Not classified

Exposure)

Aspiration Hazard Not classified

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# **SECTION 12: Ecological Information**

# 12.1. Toxicity

Ecology - General Harmful to aquatic life.

# 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. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other Adverse Effects

Other Information Avoid release to the environment.

# **SECTION 13: Disposal Considerations**

#### 13.1. Waste Treatment Methods

Product/Packaging Disposal Dispose of contents/container in accordance with local,

Recommendations 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.

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID	
14.1. UN Numbe	14.1. UN Number				
1760	1760	1760	1760	1760	
14.2. UN Proper S	Shipping Name				
CORROSIVE	CORROSIVE	CORROSIVE	CORROSIVE	CORROSIVE	
LIQUID, N.O.S.					
((Contains:	((Contains:	((Contains:	((Contains:	((Contains:	
Silanetriol, ethyl-,					
triacetate))	triacetate))	triacetate))	triacetate))	triacetate))	
14.3. Transport H	azard Class(Es)				
8	8	8	8	8	
8		8	8	8	
14.4. Packing Group					
		II	III	III	

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ADR	IMDG	IATA	ADN	RID
14.5. Environmer	14.5. Environmental Hazards			
Dangerous for	Dangerous for	Dangerous for	Dangerous for	Dangerous for
the environment:	the environment:	the environment :	the environment:	the environment:
No	No	No	No	No
	Marine pollutant :			
	No			

## 14.6. Special Precautions For User

No additional information available

# 14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

# **SECTION 15: Regulatory Information**

# 15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Silanetriol, ethyl-, triacetate (17689-77-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.1.2. National Regulations

No additional information available

#### 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other Information**

#### Indication of Changes

Section	Section Header	Change	Date Changed
		Modified template	19/12/2018
4	First aid measures	Modified	19/12/2018
12	Ecological information	Modified	19/12/2018

Date of Preparation or Latest

19/12/2018

Revision

Data Sources Information and data obtained and used in the authoring of

this safety data sheet could come from database subscriptions,

official government regulatory body websites,

product/ingredient manufacturer or supplier specific

information, and/or resources that include substance specific data and classifications according to GHS or their subsequent

adoption of GHS.

Other Information According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

#### Full Text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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, Respiratory tract irritation
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.
EUH014	Reacts violently with water.

#### Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists

ADN - European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways

ADR - European Agreement Concerning the International Carriage of Dangerous

Goods by Road ATE - Acute Toxicity Estimate BCF - Bioconcentration Factor

BEI - Biological Exposure Indices (BEI) BOD - Biochemical Oxygen Demand

CAS No. - Chemical Abstracts Service Number

- Classification, Labeling and Packaging Regulation (EC) No 1272/2008

COD - Chemical Oxygen Demand EC - European Community

EC50 - Median Effective Concentration

EEC - European Economic Community

EINECS – European Inventory of Existing Commercial Chemical Substances

EmS-No. (Fire) - IMDG Emergency Schedule Fire

EmS-No. (Spillage) - IMDG Emergency Schedule Spillage EU – European Union

ErC50 - EC50 in Terms of Reduction Growth Rate

GHS - Globally Harmonized System of Classification and Labeling of Chemicals

IARC - International Agency for Research on Cancer IATA - International Air Transport Association

IBC Code - International Bulk Chemical Code

IMDG - International Maritime Dangerous Goods

IPRV - Ilgalaikio Poveikio Ribinis Dydis

IOELV – Indicative Occupational Exposure Limit Value

LC50 - Median Lethal Concentration LD50 - Median Lethal Dose

LOAEL - Lowest Observed Adverse Effect Level

LOEC - Lowest-Observed-Effect Concentration

Log Koc - Soil Organic Carbon-water Partitioning Coefficient

Log Kow - Octanol/water Partition Coefficient

Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a twophase system consisting of two largely immiscible solvents, in this case octanol and

MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

MARPOL - International Convention for the Prevention of Pollution

NDS - Najwyzsze Dopuszczalne Stezenie NDSCh - Najwyzsze Dopuszczalne Stezenie Chwilowe

NDSP - Najwyzsze Dopuszczalne Stezenie Pulapowe

NOAEL - No-Observed Adverse Effect Level

NOEC - No-Observed Effect Concentration NRD - Nevirsytinas Ribinis Dydis

NTP - National Toxicology Program

OEL - Occupational Exposure Limits

PBT - Persistent, Bioaccumulative and Toxic

PEL - Permissible Exposure Limit

pH – Potential Hydrogen REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals

RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail

SADT - Self Accelerating Decomposition Temperature

SDS - Safety Data Sheet

STEL - Short Term Exposure Limit

TA-Luft - Technische Anleitung zur Reinhaltung der Luft TEL TRK – Technical Guidance Concentrations

ThOD – Theoretical Oxygen Demand TLM - Median Tolerance Limit

TLV - Threshold Limit Value

TPRD - Trumpalaikio Poveikio Ribinis Dydis

TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in

ortsbeweglichen Behältern

TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine

TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte

TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte TSCA - Toxic Substances Control Act

TWA - Time Weighted Average

VOC – Volatile Organic Compounds VLA-EC - Valor Límite Ambiental Exposición de Corta Duración

VLA-ED - Valor Límite Ambiental Exposición Diario

VIF - Valeur Limite D'exposition

VME – Valeur Limite De Moyenne Exposition

vPvB - Very Persistent and Very Bioaccumulative

WEL - Workplace Exposure Limit WGK - Wassergefährdungsklasse

Nusil EU GHS SDS

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SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

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