Safety Data Sheet

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1.1. Product identifier

Product form Product name Synonyms Mixture FS-3730-2 Fluorosilicone Adhesive/Sealant

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 productstewardship@avantorsciencesgcc.com www.nusil.com **1.4. Emergency telephone number** Emergency : 800-424-9300 CHEMTREC (in US): +1

Emergency : 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. 1BH314Eye Dam. 1H318STOT SE 3H335Repr. 2H361Full text of hazard classes and H-statements; see section 16

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)



Signal word (GHS-US) Hazard statements (GHS-US)	Danger H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H361 - Suspected of damaging fertility or the unborn child
Precautionary statements (GHS- US)	 P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe vapors, mist, or spray. P264 - Wash hands, forearms, and exposed areas thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. 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): Take off immediately all contaminated clothing. Rinse skin with water/shower.





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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.

P308+P313 - If exposed or concerned: Get medical

advice/attention.

P310 - Immediately call a poison center or 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 those with 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. Substance

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	60 - 80	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
Trifluoropropylmethylcyclotrisiloxane	(CAS-No.) 2374-14-3	< 1	Repr. 2, H361 STOT RE 1, H372 STOT RE 2, H373
DibutyItin diacetate	(CAS-No.) 1067-33-0	< 0.1	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 Chronic 1, H410

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	Wash contaminated clothing before reuse. Immediately flush skin with plenty of water for at least 60 minutes. Obtain medical attention if irritation persists. Remove contaminated clothing.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.
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. Suspected of damaging fertility. Suspected of damaging the unborn child.
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	Suspected of damaging fertility. Suspected of damaging the unborn child.

If medical advice is needed, have product container or label at hand.

SECTION 5: Fire-Fighting measures

5.1. Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	Use extinguishing media appropriate for surrounding fire. 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	Hazardous reactions will not occur under normal conditions.
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 firefighting 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	Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray).
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	Stop leak if safe to do so. Eliminate ignition sources. Ventilate area.

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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	Any proposed use of this product in elevated-temperature processes
processed	should be thoroughly evaluated to assure that safe operating
	conditions are established and maintained. When heated, material
	emits irritating fumes.
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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 storag	e, including any incompatibilities
Technical measures	Comply with applicable regulations.
Storage conditions	Store in a dry, cool and well-ventilated place. Keep container
0	closed when not in use. Keep/Store away from direct sunlight,
	extremely high or low temperatures and incompatible materials.
Incompatible products	Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s) 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).

Tin organic compou	unds	
USA ACGIH	ACGIH OEL TWA	0.1 mg/m³
USA ACGIH	ACGIH OEL STEL	0.2 mg/m ³
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human
		Carcinogen,Skin - potential significant
		contribution to overall exposure by the
		cutaneous route
USA NIOSH	NIOSH REL (TWA)	0.1 mg/m³ (except Cyhexatin)
USA OSHA	OSHA PEL (TWA) [1]	0.1 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.

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Personal protective equipment Protective goggles. Gloves. Protective clothing.

Materials for protective clothing	Corrosion-proof clothing.
Hand protection	Wear chemically resistant protective gloves.
Eye protection	Chemical goggles or face shield.
Skin and body protection	Wear suitable protective clothing.
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		: Black
Odor		: Acetic acid
Odor threshold		: No data available
рН		: 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		: 1.4
Solubility		: No data available
Partition coefficient: n-octanol/wat	er	: No data available
Viscosity		: No data available
9.2. Other information		
VOC content	< 1%	

SECTION 10: Stability and reactivity

10.1. Reactivity
Hazardous reactions will not occur under normal conditions.

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
Chemical Stream is an extent of a stream.

Strong acids. Strong bases. Strong oxidizers.

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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 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	
Trifluoropropylmethylcyclotrisiloxar	ne (2374-14-3)	
LD50 Oral Rat	3995 – 5433 mg/kg	
LD50 Dermal Rabbit	> 20000 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	
Reproductive toxicity	: Suspected of damaging fertility. Suspected of damaging the unborn child	
Specific target organ toxicity (single exposure) : May cause respiratory irritation.		
Specific target organ toxicity (repe exposure)	ated : 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	Suspected of damaging fertility. Suspected of damaging the unborn child.	

SECTION 12: Ecological information

12.1. Toxicity

0.035 mg/l Exposure time: 72 hour (Species: Skeletonema costatum) 0.65 mg/l 0.32 mg/l (48-Hour EC50 Daphnia magna)		
).65 mg/l		
) 32 ma/l (48-Hour EC.50 Daphnia magna)		
12.2. Persistence and degradability		
Not established.		
Not established.		
3.39 at 20 °C (at pH 5)		

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 waste material in accordance with all local, regional,
	national, and international regulations.
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. Except by transportation by aircraft, the transport classification does not apply to packages smaller than 1.0 L (0.3 gallons).

14.1. In Accordance with DOT

14.1. In Accordance with DOI		
CORROSIVE LIQUID, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate)		
8		
UN1760		
8		
154		
vith IMDG		
CORROSIVE LIQUID, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate)		
8		
UN1760		
8		
F-A		
S-B		
14.3. In Accordance with IATA		
CORROSIVE LIQUID, N.O.S. (CONTAINS Silanetriol, ethyl-, triacetate)		
UN1760		
8		
8		
8L		

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed or exempted from being listed on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

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SARA Section 311/312 Hazard	Immediate (acute) health hazard
Classes	Health hazard - Reproductive toxicity

15.2. US State regulations

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Silanetriol, ethyl-, triacetate (17689-77-9)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
DibutyItin diacetate (1067-33-0)
RTK - U.S Massachusetts - Right To Know List
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
Tin organic compounds
U.S Minnesota - Hazardous Substance List
U.S Tennessee - Occupational Exposure Limits - TWAs
U.S Tennessee - Occupational Exposure Limits - Skin Designations
U.S Vermont - Permissible Exposure Limits - TWAs
U.S Connecticut - Hazardous Air Pollutants - HLVs (8 hr)
U.S Vermont - Permissible Exposure Limits - Skin Designations
U.S Washington - Permissible Exposure Limits - TWAs
U.S Connecticut - Hazardous Air Pollutants - HLVs (30 min)
U.S Washington - Permissible Exposure Limits - STELs
U.S Washington - Permissible Exposure Limits - Skin Designations
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Emission Levels (ELs)
U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations
U.S New York - Occupational Exposure Limits - TWAs
U.S New York - Occupational Exposure Limits - Skin Designations
U.S Michigan - Occupational Exposure Limits - TWAs
U.S Michigan - Occupational Exposure Limits - Skin Designations
U.S Minnesota - Permissible Exposure Limits - Skin Designations
U.S Minnesota - Permissible Exposure Limits - TWAs
U.S Oregon - Permissible Exposure Limits - TWAs
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 75 Feet or
Greater
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 40 Feet to Less
Than 75 Feet
U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights 25 Feet to Less
Than 40 Feet U.S Wisconsin - Hazardous Air Contaminants - All Sources - Emissions From Stack Heights Less Than 25 Feet
U.S Wisconsin - Hazaradous Air Contaminants - Air Sources - Emissions From Stack Heights Less man 25 Feel U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-Hour
U.S North Dakota - Air Pollutants - Guideline Concentrations - 1-1001 U.S North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour
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) - 24-1001 U.S New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual
Trifluoropropylmethylcyclotrisiloxane (2374-14-3)
U.S Texas - Effects Screening Levels - Long Term
U.S Texas - Effects Screening Levels - Short Term
U.S Texas - Effects Screening Levels - Snort Term

SECTION 16: Other information, including date of preparation or last revision

NFPA health hazard NFPA fire hazard NFPA reactivity	 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given. 1 - Must be preheated before ignition can occur. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water. 	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
06/06/2023	EN (English US)	8/9

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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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
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.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Muta. 2	Germ cell mutagenicity, Category 2
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1B	Skin sensitisation, category 1B
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

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