

Safety Data Sheet

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

 Revision date:
 Date of issue:
 Version: 2.0

 15/04/2016
 13/12/2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture
Product Name FS-3511 Part A

Synonyms Liquid Injection Molding Fluorosilicone Elastomer

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 molding parts with a medium hardness and solvent resistance.

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other Hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of REACH annex II.

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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 medical

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

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.

First-aid measures after skin

contact

Rinse immediately with plenty of water. Remove contaminated clothing. Call a POISON CENTER or doctor/physician if you feel

unwell. Wash contaminated clothing before reuse.

First-aid measures after eye

contact

Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical

attention

First-aid measures after ingestion Do not induce vomiting. Seek medical attention if a large amount is

swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries

Symptoms/injuries after inhalation

Symptoms/injuries after skin

contact

None expected under normal conditions of use. May cause irritation to the respiratory tract.

May cause mild skin irritation.

Symptoms/injuries after eye May cause slight irritation.

contact

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms None expected under normal conditions of use.

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: Firefighting measures

5.1. Extinguishing media

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 will burn at high temperatures.

Explosion hazard Product is not explosive.

Reactivity Stable at ambient temperature and under normal conditions of use.

5.3. Advice for firefighters

Precautionary measures fire Do not breathe fumes from fires or vapours from decomposition.

Exercise caution when fighting any chemical fire.

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 unnecessary exposure.

6.1.1. For non-emergency personnel

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Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Use appropriate personal protection equipment (PPE).

Emergency procedures 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

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

Absorb and/or contain spill with inert material, then place in suitable For containment

container.

Collect absorbed material and place into a sealed, labelled Methods for cleaning up

container for proper disposal. Clean up spills immediately and

dispose of waste safely.

6.4. Reference to other sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Use appropriate personal protective equipment when handling and

observe good personal hygiene measures after handling.

Handle in accordance with good industrial hygiene and safety Hygiene measures

procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and 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. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Strong oxidizers. Strong acids. Strong bases. Incompatible materials

7.3. Specific end use(s)

For molding parts with a medium hardness and solvent resistance. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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.

Personal protective equipment Not generally required. The use of personal protective equipment

may be necessary as conditions warrant.

Hand protection In case of repeated or prolonged contact wear gloves.

Eye protection In case of splash hazard: chemical goggles or safety glasses.

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.

Environmental exposure controls

Do not allow the product to be released into the environment.

Consumer exposure controls Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Translucent Odour : Mild

Odour threshold : No data available

рΗ : No data available Relative evaporation rate (butylacetate=1) : No data available Melting point : No data available : No data available Freezing point 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

Relative vapour density at 20 °C Relative Density : 1,4 (water=1)

Solubility : No data available Partition coefficient: n-octanol/water : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available : No data available Explosive properties Oxidising properties : No data available **Explosive limits** : No data available

9.2. Other information

VOC content < 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapour pressure

Stable at ambient temperature and under normal conditions of use.

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, Ignition sources, Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

: No data available

: No data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified Skin corrosion/irritation Not classified Serious eye damage/irritation Not classified

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Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Not classified

Not classified

Not classified

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal Do not empty into drains; dispose of this material and its container in

recommendations a safe way.

Waste disposal recommendations Dispose of waste material in accordance with all local, regional,

national, and international regulations.

SECTION 14: Transport information

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

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

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
VOC content

< 1 %</p>

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:

Revision date.

Section	Section Header	Change	Date Changed
2	Classification of the substance or mixture	Removed	15/04/2015
2	Hazards identification	Removed DSD/DPD information.	15/04/2016
3	Composition/information on ingredients	Removed	15/04/2015
3	Composition/information on ingredients	Removed DSD/DPD information. Removed non-hazardous components and components below cut-offs.	15/04/2016
4	First aid measures	Modified	15/04/2015
6	Personal precautions, protective equipment and emergency procedures	Modified	15/04/2015
8	Exposure controls	Modified	15/04/2015
10	Stability and reactivity	Modified	15/04/2015
12.	Ecological information	Removed	15/04/2015
14	Transport information	Removed	15/04/2015
15	Regulatory information	Modified	15/04/2016
15.1	EU-Regulations	Removed	15/04/2015

Revision date 15/04/2016

Data sources According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

Nusil EU GHS SDS

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form Mixture
Product Name FS-3511 Part B

Synonyms Liquid Injection Molding Fluorosilicone Elastomer

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 molding parts with a medium hardness and solvent resistance.

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

number Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

EUH-statements EUH210 - Safety data sheet available on request

2.3. Other Hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silanamine, N-[dimethyl(3,3,3-trifluoropropyl)silyl]-1,1-dimethyl-1-(3,3,3-trifluoropropyl)-	(CAS No) 39482-87-6 (EC no) 254-470-9	1 - 3	Skin Irrit. 2, H315 Eye Irrit. 2, H319

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures aeneral Never give anything by mouth to an unconscious person, If medical

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

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.

First-aid measures after skin

contact

Wash skin thoroughly with mild soap and water. Obtain medical

attention if irritation develops or persists.

First-aid measures after eye

contact

Immediately rinse with water for a prolonged period (at least 15 minutes) while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical

attention.

First-aid measures after ingestion Do not induce vomiting. Seek medical attention if a large amount is

swallowed.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries None expected under normal conditions of use. May cause irritation to the respiratory tract.

Symptoms/injuries after inhalation

Symptoms/injuries after skin May cause mild skin irritation.

contact

Symptoms/injuries after eye May cause minor eye irritation.

contact

Symptoms/injuries after ingestion Ingestion is likely to be harmful or have adverse effects.

Chronic symptoms None expected under normal conditions of use.

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: Firefighting 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. 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 will burn at high temperatures.

Explosion hazard Product is not explosive.

Stable at ambient temperature and under normal conditions of use. Reactivity

5.3. Advice for firefighters

Precautionary measures fire Do not breathe fumes from fires or vapours from decomposition.

Exercise caution when fighting any chemical fire.

Firefighting instructions Use water spray or fog for cooling exposed containers.

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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 unnecessary exposure.

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2.For emergency responders

Emergency procedures 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

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

6.3. Methods and material for containment and cleaning up

For containment Absorb and/or contain spill with inert material, then place in suitable

container.

Methods for cleaning up Collect absorbed material and place into a sealed, labelled

container for proper disposal. Clean up spills immediately and

dispose of waste safely.

6.4. Reference to other sections

See Section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling Use appropriate personal protective equipment when handling and

observe good personal hygiene measures after handling.

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 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. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials Strong oxidizers. Strong acids. Strong bases.

7.3. Specific end use(s)

For molding parts with a medium hardness and solvent resistance. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

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.

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Personal protective equipment Not generally required. The use of personal protective equipment

may be necessary as conditions warrant.

Materials for protective clothing Chemically resistant materials and fabrics.

Hand protection In case of repeated or prolonged contact wear gloves.

Eye protection In case of splash hazard: chemical goggles or safety glasses.

Skin and body protection Wear suitable protective clothing.

Environmental exposure controls Do not allow the product to be released into the environment.

Consumer exposure controls Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Translucent
Odour : Mild

: No data available Odour threshold рН : No data available Relative evaporation rate (butylacetate=1) : No data available : No data available Melting point Freezing point : No data available Boiling point : No data available Flash point : > 135 °C (> 275 °F) Auto-ignition temperature : No data available

Decomposition temperature

Flammability (solid, gas)

Vapour pressure

Relative vapour density at 20 °C

Relative Density

Solubility

No data available

No data available

No data available

No data available

1,4 (water=1)

No data available

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 : No data available : No data available

9.2. Other information

VOC content < 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at ambient temperature and under normal conditions of use.

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. Ignition sources. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

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

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and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation. May produce explosive hydrogen gas on contact with incompatibilities or upon thermal decomposition.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Not classified
Skin corrosion/irritation Not classified
Serious eye damage/irritation Not classified
Respiratory or skin sensitisation Not classified
Germ cell mutagenicity Not classified
Carcinogenicity Not classified
Reproductive toxicity Not classified

Specific target organ toxicity (single exposure) : Not classified Specific target organ toxicity (repeated : Not classified

exposure)

Aspiration hazard Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal Do not empty into drains; dispose of this material and its container in

a safe way.

Waste disposal recommendations Dispose of waste material in accordance with all local, regional,

national, and international regulations.

SECTION 14: Transport information

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

14.1. UN number

recommendations

Not regulated for transport

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

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14.4. Packing group

Not applicable

14.5. Environmental hazards

Other information No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

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

VOC content < 1 %

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
2	Classification of the substance or mixture	Removed	15/04/2015
2	Hazards identification	Removed DSD/DPD information.	15/04/2016
3	Composition/information on ingredients	Removed	15/04/2015
3	Composition/information on ingredients	Removed DSD/DPD information. Removed non-hazardous components and components below cut-offs.	15/04/2016
4	First aid measures	Modified	15/04/2015
6	Personal precautions, protective equipment and emergency procedures	Modified	15/04/2015
8	Exposure controls	Modified	15/04/2015
10	Stability and reactivity	Modified	15/04/2015
12.	Ecological information	Removed	15/04/2015
14	Transport information	Removed	15/04/2015
15	Regulatory information	Modified	15/04/2016

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15.1	EU-Regulations	Removed	15/04/2015

Revision date 15/04/2016

Data sources According to Regulation (EC) No. 1907/2006 (REACH) with its

amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H315	Causes skin irritation
H319	Causes serious eye irritation
EUH210	Safety data sheet available on request

Nusil EU GHS SDS

We believe that the information contained herein is current as of the date of this Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of NuSil Technology, it is the user's obligation to determine the conditions of safe use of the product.



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