

CF1-3710-2 Part A

Safety Data Sheet

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

Revision date:
18/05/2016

Date of issue:
23/09/2014

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product Name : CF1-3710-2 Part A
Synonyms : Fluorosilicone Foam

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 use as a solvent resistant seal, and in shock and vibration dampening situations. 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]

Eye Irrit. 2 H319

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation
Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear eye protection, protective clothing, protective gloves
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other Hazards

Other hazards not contributing to the classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

CF1-3710-2 Part A

Safety Data Sheet

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Siloxanes and Silicones, dimethyl, methyl 3,3,3-trifluoropropyl, vinyl group-terminated	(CAS No) 68951-98-4	22 - 27	Eye Irrit. 2, H319
Quartz*	(CAS No) 14808-60-7 (EC no) 238-878-4	5 - 10	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

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 if possible).
- First-aid measures after inhalation : 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. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
- 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 : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Causes serious eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- 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 you feel unwell, seek medical advice (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

CF1-3710-2 Part A

Safety Data Sheet

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

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 : Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.

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

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 (vapour, 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.

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 : Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe 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 products : Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

For use as a solvent resistant seal, and in shock and vibration dampening situations. For professional use only.

CF1-3710-2 Part A

Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
Austria	MAK (mg/m ³)	0,15 mg/m ³ (yearly average, valid till 12/31/2013- alveolar dust, respirable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (alveolar dust)
Bulgaria	OEL TWA (mg/m ³)	0,07 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³ 0,1 mg/m ³ (regulated under Quartz sand-respirable dust)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	0,05 mg/m ³ (reclassified IARC group 2A to group 1- respirable fraction)
Switzerland	VME (mg/m ³)	0,15 mg/m ³ (respirable dust)
Switzerland	OEL chemical category (CH)	Category C1 carcinogen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ (respirable)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,3 mg/m ³ (total) 0,1 mg/m ³ (respirable)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (respirable)
Hungary	AK-érték	0,15 mg/m ³ (respirable)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (Silicon dioxide variation-respirable fraction)
Norway	Grenseverdier (AN) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula- total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula- respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula- total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula- respirable dust)
Norway	OEL chemical category (NO)	Carcinogen

CF1-3710-2 Part A

Safety Data Sheet

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

Quartz (14808-60-7)		
Poland	NDS (mg/m ³)	2 mg/m ³ (>50% free crystalline silica-inhalable fraction) 0,3 mg/m ³ (>50% free crystalline silica-respirable fraction) 4,0 mg/m ³ (2% to 50% free crystalline silica-inhalable fraction) 1,0 mg/m ³ (2% to 50% free crystalline silica-respirable fraction)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m ³)	0,15 mg/m ³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Sweden	OEL chemical category (SE)	Carcinogen
Portugal	OEL TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected Human Carcinogen

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 : Protective goggles. Gloves. Protective clothing.



- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Use an 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.
- 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 : Pale Tan
- Odour : Slight
- Odour threshold : No data available
- pH : No data available
- Relative evaporation rate (butylacetate=1) : 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
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available

CF1-3710-2 Part A

Safety Data Sheet

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

Relative Density	: 1.1 - 1.5 (Water=1)
Solubility	: 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

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 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. 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
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 exposure)	: Not classified.
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

CF1-3710-2 Part A

Safety Data Sheet

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

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

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

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

CF1-3710-2 Part A

Safety Data Sheet

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

SECTION 16: Other information

Indication of changes:

Section	Section Header	Change	Date Changed
1.3	Details of the supplier of the safety data sheet	Modified	18/05/2016
2	Hazards identification	Removed DSD/DPD information.	18/05/2016
3	Composition/information on ingredients	Removed not classified components and components below cutoffs. Removed DSD/DPD information.	18/05/2016
15.1.1	EU-Regulations	Modified	18/05/2016

Revision date : 18/05/2016

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

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

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.

CF1-3710-2 Part B

Safety Data Sheet

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

Revision date:
18/05/2016

Date of issue:
02/09/2014

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Product Name : CF1-3710-2 Part B
Synonyms : Fluorosilicone Foam

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. For use as a solvent resistant seal, and in shock and vibration dampening situations.

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]

Eye Irrit. 2 H319

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS07

Signal word (CLP) : Warning
Hazard statements (CLP) : H319 - Causes serious eye irritation
Precautionary statements (CLP) : P264 - Wash hands, forearms and face thoroughly after handling
P280 - Wear eye protection, protective clothing, protective gloves
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337+P313 - If eye irritation persists: Get medical advice/attention

2.3. Other Hazards

Other hazards not contributing to : Exposure may aggravate pre-existing eye, skin, or respiratory

CF1-3710-2 Part B

Safety Data Sheet

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

the classification

conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Siloxanes and Silicones, dimethyl, methyl 3,3,3-trifluoropropyl, vinyl group-terminated	(CAS No) 68951-98-4	20 - 25	Eye Irrit. 2, H319
Quartz*	(CAS No) 14808-60-7 (EC no) 238-878-4	< 6	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Glass, oxide, chemicals*	(CAS No) 65997-17-3 (EC no) 266-046-0	< 5	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Siloxanes and Silicones, methyl hydrogen	(CAS No) 63148-57-2	< 5	Not classified

*Finely divided Quartz and Glass Oxide has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz and Glass Oxide is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz and Glass oxide are not applicable to this product.

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 if possible).
- First-aid measures after inhalation : 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. Obtain medical attention if irritation develops or persists.
- 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 : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Causes serious eye irritation.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.
- Chronic symptoms : None expected under normal conditions of use.

CF1-3710-2 Part B

Safety Data Sheet

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

4.3. Indication of any immediate medical attention and special treatment needed

If you feel unwell, seek medical advice (show the label where possible).

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 may 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.
Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
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 (vapour, 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.

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 : Clean up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe 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.

CF1-3710-2 Part B

Safety Data Sheet

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

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 products : Strong acids. Strong bases. Strong oxidizers.

7.3. Specific end use(s)

For professional use only. For use as a solvent resistant seal, and in shock and vibration dampening situations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
Austria	MAK (mg/m ³)	0,15 mg/m ³ (yearly average, valid till 12/31/2013-alveolar dust, respirable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (alveolar dust)
Bulgaria	OEL TWA (mg/m ³)	0,07 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³ 0,1 mg/m ³ (regulated under Quartz sand-respirable dust)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	0,05 mg/m ³ (reclassified IARC group 2A to group 1-respirable fraction)
Switzerland	VME (mg/m ³)	0,15 mg/m ³ (respirable dust)
Switzerland	OEL chemical category (CH)	Category C1 carcinogen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ (respirable)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,3 mg/m ³ (total) 0,1 mg/m ³ (respirable)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (respirable)
Hungary	AK-érték	0,15 mg/m ³ (respirable)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (Silicon dioxide variation-respirable fraction)
Norway	Grenseverdier (AN) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)

CF1-3710-2 Part B

Safety Data Sheet

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

Quartz (14808-60-7)		
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	OEL chemical category (NO)	Carcinogen
Poland	NDS (mg/m ³)	2 mg/m ³ (>50% free crystalline silica-inhalable fraction) 0,3 mg/m ³ (>50% free crystalline silica-respirable fraction) 4,0 mg/m ³ (2% to 50% free crystalline silica-inhalable fraction) 1,0 mg/m ³ (2% to 50% free crystalline silica-respirable fraction)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m ³)	0,15 mg/m ³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Sweden	OEL chemical category (SE)	Carcinogen
Portugal	OEL TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected Human Carcinogen
Glass, oxide, chemicals (65997-17-3)		
Belgium	Limit value (mg/m ³)	10 mg/m ³ (dust and fiber)
Siloxanes and Silicones, methyl hydrogen (63148-57-2)		
Denmark	Grænseværdie (ceiling) (mg/m ³)	6 mg/m ³
Denmark	Grænseværdie (ceiling) (ppm)	1 ppm

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 : Protective goggles. Gloves. Protective clothing.



Materials for protective clothing : Chemically resistant materials and fabrics.
 Hand protection : Wear chemically resistant protective gloves.
 Eye protection : Chemical safety goggles.
 Skin and body protection : Wear suitable protective clothing.
 Respiratory protection : Use an 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.
 Consumer exposure controls : Do not eat, drink or smoke during use.

CF1-3710-2 Part B

Safety Data Sheet

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale tan
Odour	: Slight
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: 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
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative Density	: 1.10-1.15 (water = 1)
Solubility	: 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

9.2. Other information

VOC content : 40 - 55 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

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. 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. 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

CF1-3710-2 Part B

Safety Data Sheet

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

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg

Skin corrosion/irritation : Not classified
Serious eye damage/irritation : Causes serious eye irritation.
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 exposure) : Not classified.
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

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

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.

CF1-3710-2 Part B

Safety Data Sheet

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

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 : 40 - 55 %

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
1.3	Details of the supplier of the safety data sheet	Modified	18/05/2016
2	Hazards identification	Removed DSD/DPD information.	18/05/2016
3	Composition/information on ingredients	Removed not classified components and components below cutoffs. Removed DSD/DPD information.	18/05/2016
15.1.1	EU-Regulations	Modified	18/05/2016

Revision date : 18/05/2016

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

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Nusil EU GHS SDS

CF1-3710-2 Part B

Safety Data Sheet

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

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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