Safety Data Sheet

According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008 Revision date: Date of issue: 04/04/2016 25/10/2013



Version:2.0

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

1.1. Product identifier

Product form Product Name Synonyms Mixture CV1-2964 Part A

Controlled Volatility Silicone 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

To provide heat transfer between electrical/electronic components. 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

<u>ehs@nusil.com</u>

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 substa Classification according to Regula Skin Irrit. 2 H315 Eye Irrit. 2 H319 Full text of H-statements: see section Adverse physicochemical, human No additional information availab 2.2. Label elements Labelling according to Regulation	on 16 n health and environmental effects
Hazard pictograms (CLP)	
	GHS07
Signal word (CLP)	Warning
Hazard statements (CLP)	H315 - Causes skin irritation
	H319 - Causes serious eye irritation
Precautionary statements (CLP)	P264 - Wash hands, forearms and other exposed areas thoroughly after handling
	P280 - Wear eye protection, protective clothing, eye protection,
	face protection
	P302+P352 - IF ON SKIN: Wash with plenty of water
	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
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	Continue rinsing P321 - Specific treatment (see section 4 on this SDS) P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse
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. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	80 - 85	Not classified
Siloxanes and Silicones, dimethyl, vinyl group-terminated	(CAS No) 68083-19-2	15 - 20	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 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. Causes skin irritation.
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	Causes 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 Immedia	te Medical Attention and Special Treatment Needed
If you fool up wall cook modical adv	(ico (show the label where possible)

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

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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 Fr	om 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 (vapor, mist, spray).
6.1.1.For non-emergency per	sonnel
Protective equipment	Use appropriate personal protection equipment (PPE).
Emergency procedures	Evacuate unnecessary personnel.
6.1.2.For emergency respond	lers
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 precaution	ons
Prevent entry to sewers and pub	lic waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material for	or 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	Clear 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.

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	e, 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.

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

7.3. Specific end use(s)

To provide heat transfer between electrical/electronic components. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminum oxide (1344-	-28-1)	
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust, respirable fraction, smoke)
Austria	MAK Short time value (mg/m³)	10 mg/m³ (alveolar dust, respirable fraction, smoke)
Belgium	Limit value (mg/m³)	1 mg/m³
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)
France	VME (mg/m³)	10 mg/m ³
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)
Latvia	OEL TWA (mg/m³)	6 mg/m ³ (disintegration aerosol)
Spain	VLA-ED (mg/m³)	10 mg/m ³
Switzerland	VLE (mg/m³)	24 mg/m³ (respirable dust, smoke)
Switzerland	VME (mg/m³)	3 mg/m³ (respirable dust, smoke)
Denmark	Grænseværdie (langvarig) (mg/m³)	5 mg/m³ (total) 2 mg/m³ (respirable)
Estonia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)
Hungary	AK-érték	6 mg/m³ (respirable dust)
Lithuania	IPRV (mg/m³)	5 mg/m ³ (inhalable fraction) 2 mg/m ³ (respirable fraction)
Norway	Grenseverdier (AN) (mg/m³)	10 mg/m ³ (equal to the standard for nuisance dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m ^a (equal to the standard for nuisance dust)
Poland	NDS (mg/m³)	2,5 mg/m³ (inhalable fraction) 1,2 mg/m³ (respirable fraction)
Romania	OEL TWA (mg/m³)	2 mg/m³ (regulated under Aluminium oxide-aerosol) 3 mg/m³ 1 mg/m³
Romania	OEL TWA (ppm)	0,5 ppm (regulated under Aluminium oxide-aerosol)
Romania	OEL STEL (mg/m³)	5 mg/m³ (aerosol) 10 mg/m³ (dust) 3 mg/m³ (fume)
Romania	OEL STEL (ppm)	1,2 ppm (regulated under Aluminium oxide-aerosol)
Slovakia	NPHV (priemerná) (mg/m³)	1,5 mg/m³ (fume) 1,5 mg/m³ 0,1 mg/m³ (regulated under .gamma Aluminum oxide-respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust) 2 mg/m³ (respirable dust)

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

Aluminum oxide (1344-28-1)		
Portugal	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen

8.2. Exposure controls

o.z. Exposure connois	
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 Hand protection Eye protection Skin and body protection Respiratory protection	 Chemically resistant materials and fabrics. Wear chemically resistant protective gloves. Chemical goggles. Wear suitable protective clothing. Use an approved respirator or self-contained breathing apparatus whenever exposure may exceed established Occupational Exposure Limits.
Environmental exposure controls Consumer exposure controls Other information	Do not allow the product to be released into the environment. Do not eat, drink or smoke during use. 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
Colour	: White
Odour	: Odourless
Odour threshold	: No data available
рН	: 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	: > 275 °C (527 °F)
Self 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	: 2,3 (Water=1)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

Explosive limits

9.2. Other information VOC content

< 1 %

: No data available

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

/		
Aluminum oxide (1344-28-1)		
LD50 oral rat	> 5000 mg/kg	
Siloxanes and Silicones, dimethyl, v	inyl group-terminated (68083-19-2)	
LD50 oral rat	> 5000 mg/kg	
LD50 dermal rabbit	> 20000 mg/kg	
LC50 inhalation rat (mg/l)	> 600 mg/m³	
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single Specific target organ toxicity (repea exposure)		
Aspiration hazard	Not classified	

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

CV1-2964 Part A	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
CV1-2964 Part A	
Bioaccumulative potential	Not established.

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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 **Overland transport** 14.6.1. 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 73/78 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 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

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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	04/04/2016
2	Hazards identification	Added Skin Irrit. 2 H315, Eye Irrit. 2 H319. Removed DSD/DPD information.	04/04/2016
2.3	Other hazards	Modified	04/04/2016
3	Composition/information on ingredients	New components replaced old components. Reclassified mixture based on new composition. Removed not classified components and components below cutoffs. Removed DSD/DPD information.	04/04/2016
4	First aid measures	Modified	04/04/2016
11	Toxicological information	Modified	04/04/2016
15.1.1	EU-Regulations	Modified	04/04/2016

Revision date Data sources 04/04/2016

According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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	
ĺ	H319	Causes serious eye irritation	

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.

Safety Data Sheet

According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008 Revision date: Date of issue: 04/04/2016 25/10/2013



Version:2.0

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

1.1. Product identifier

 Product form
 Mixture

 Product Name
 CV1-2964 Part B

 Synonyms
 Controlled Volatility Silicone 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

 To provide heat transfer between electrical/electroni

To provide heat transfer between electrical/electronic components. 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 Maritime)

SECTION 2: Hazards identification

2.1. Classification of the substa Classification according to Regula Skin Irrit. 2 H315 Eye Irrit. 2 H319 Full text of H-statements: see section	tion (EC) No. 1272/2008 [CLP]
Adverse physicochemical, human No additional information availabl	
2.2. Label elements	
Labelling according to Regulation	(EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP)	CH507
Signal word (CLP)	Warning
Hazard statements (CLP)	 H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	 P264 - Wash hands, forearms and other exposed areas thoroughly after handling P280 - Wear eye protection, protective clothing, eye protection, face protection P302+P352 - IF ON SKIN: Wash with plenty of water P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several
0.1/0.1/001/	EN1/En-state) 1/0

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

	minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P321 - Specific treatment (see section 4 on this SDS)
	P332+P313 - If skin irritation occurs: Get medical advice/attention
	P337+P313 - If eye irritation persists: Get medical advice/attention
	P362+P364 - Take off contaminated clothing and wash it before
	reuse
2.3. Other Hazards	
Other hazards not contributing to	Exposure may aggravate pre-existing eye, skin, or respiratory
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]
Aluminum oxide	(CAS No) 1344-28-1 (EC no) 215-691-6	80 - 85	Not classified
Siloxanes and Silicones, dimethyl, vinyl group-terminated	(CAS No) 68083-19-2	15 - 20	Skin Irrit. 2, H315 Eye Irrit. 2, H319
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

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 of	and Effects, Both Acute and Delayed
Symptoms/injuries	Causes serious eye irritation. Causes skin irritation.
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	Causes 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.
-	e Medical Attention and Special Treatment Needed
If you feel unwell, seek medical adv	ice (show the label where possible).

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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 Fr	om 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 (vapor,
	mist, spray).
6.1.1.For non-emergency per	sonnei
Protective equipment	Use appropriate personal protection equipment (PPE).
Emergency procedures	Evacuate unnecessary personnel.
6.1.2.For emergency respond	ers
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 precaution	ons
Prevent entry to sewers and pub	lic waters. Notify authorities if liquid enters sewers or public waters.
6.3. Methods and material fo	or 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	Clear 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.

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	e, 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.

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

7.3. Specific end use(s)

To provide heat transfer between electrical/electronic components. For professional use only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Aluminum oxide (1344-28-1)			
Austria	MAK (mg/m³)	5 mg/m³ (alveolar dust, respirable fraction, smoke)	
Austria	MAK Short time value (mg/m³)	10 mg/m³ (alveolar dust, respirable fraction, smoke)	
Belgium	Limit value (mg/m³)	l mg/m³	
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)	
France	VME (mg/m³)	10 mg/m³	
Greece	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction) 5 mg/m³ (respirable fraction)	
Latvia	OEL TWA (mg/m³)	6 mg/m ³ (disintegration aerosol)	
Spain	VLA-ED (mg/m³)	10 mg/m³	
Switzerland	VLE (mg/m³)	24 mg/m³ (respirable dust, smoke)	
Switzerland	VME (mg/m³)	3 mg/m³ (respirable dust, smoke)	
Denmark	Grænseværdie (langvarig) (mg/m³)	5 mg/m³ (total) 2 mg/m³ (respirable)	
Estonia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 4 mg/m³ (respirable dust)	
Hungary	AK-érték	6 mg/m³ (respirable dust)	
Lithuania	IPRV (mg/m³)	5 mg/m³ (inhalable fraction) 2 mg/m³ (respirable fraction)	
Norway	Grenseverdier (AN) (mg/m³)	10 mg/m ³ (equal to the standard for nuisance dust)	
Norway	Grenseverdier (Korttidsverdi) (mg/m3)	10 mg/m ³ (equal to the standard for nuisance dust)	
Poland	NDS (mg/m³)	2,5 mg/m³ (inhalable fraction) 1,2 mg/m³ (respirable fraction)	
Romania	OEL TWA (mg/m³)	2 mg/m³ (regulated under Aluminium oxide-aerosol) 3 mg/m³ 1 mg/m³	
Romania	OEL TWA (ppm)	0,5 ppm (regulated under Aluminium oxide-aerosol)	
Romania	OEL STEL (mg/m³)	5 mg/m³ (aerosol) 10 mg/m³ (dust) 3 mg/m³ (fume)	
Romania	OEL STEL (ppm)	1,2 ppm (regulated under Aluminium oxide-aerosol)	
Slovakia	NPHV (priemerná) (mg/m³)	1,5 mg/m³ (fume) 1,5 mg/m³ 0,1 mg/m³ (regulated under .gamma Aluminum oxide-respirable fraction)	
Sweden	nivågränsvärde (NVG) (mg/m³)	5 mg/m³ (total dust) 2 mg/m³ (respirable dust)	

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

Aluminum oxide (1344-28-1)		
Portugal	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Portugal	OEL chemical category (PT)	A4 - Not Classifiable as a Human Carcinogen

8.2. Exposure controls

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 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.
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
Colour	: White
Odour	: Odourless
Odour threshold	: No data available
рН	: 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	: > 275 °C (527 °F)
Self 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	: 2,3 (Water=1)
Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

Explosive limits

9.2. Other information VOC content

< 1 %

: No data available

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

Aluminum oxide (1344-28-1)	
LD50 oral rat	> 5000 mg/kg
Siloxanes and Silicones, dimethyl, v	inyl group-terminated (68083-19-2)
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 20000 mg/kg
LC50 inhalation rat (mg/l)	> 600 mg/m³
Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single Specific target organ toxicity (repea exposure)	
Aspiration hazard	Not classified

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

CV1-2964 Part B	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
CV1-2964 Part B	
Bioaccumulative potential	Not established.

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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 **Overland transport** 14.6.1. 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 73/78 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 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

Safety Data Sheet According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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	04/04/2016
2	Hazards identification	Added Skin Irrit. 2 H315, Eye Irrit. 2 H319. Removed DSD/DPD information.	04/04/2016
2.3	Other hazards	Modified	04/04/2016
3	Composition/information on ingredients	New components replaced old components. Reclassified mixture based on new composition. Removed not classified components and components below cutoffs. Removed DSD/DPD information.	04/04/2016
4	First aid measures	Modified	04/04/2016
11	Toxicological information	Modified	04/04/2016
15.1.1	EU-Regulations	Modified	04/04/2016

Revision date Data sources 04/04/2016

According to regulation (EU) No. 2015/830 and regulation (EC) No. 1272/2008

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
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

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.