Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 04/04/2014 SECTION 1: Identification of the substance/mixture and of the company/undertaking

Mixture

1.1. Product identifier Product form

Product Name	R-3975
Synonyms	RTV Fluorosilicone Dispersion
1.2. Relevant identified uses o	f the substance or mixture and uses advised against
1.2.1. Relevant identified uses	
Industrial/Professional use spec	Industrial
Use of the substance/mixture	For coating, sealing and bonding applications requiring solvent and/or fuel resistance. For professional use only.
1.2.2. Uses advised against	
No additional information availab	le
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>	
<u>www.nusil.com</u>	
1.4. Emergency telephone numb	
Emergency : 800-424-9300 number Maritime)) CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and

SECTION 2: Hazards identification

2.1. Classification of the substant Classification according to Regulation Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Full text of hazard classes and H-stat Adverse physicochemical, humant No additional information available 2.2. Label elements Labelling according to Regulation (Hazard pictograms (CLP)	tements : see section 16 health and environmental effects EC) No. 1272/2008 [CLP]
Signal word (CLP)	GHS02 GHS07
Hazardous Ingreadients	tert-Butyl acetate .Silanetriol, ethyl-, triacetate
Hazard statements (CLP)	 H225 - Highly flammable liquid and vapour H315 - Causes skin irritation H319 - Causes serious eye irritation
Precautionary statements (CLP)	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 - Keep container tightly closed
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 P240 - Ground/bond container and receiving equipment P241 - Use explosion-proof electrical, ventilating, lighting equipment P264 - Wash hands, forearms and exposed areas thoroughly after handling P280 - Wear protective clothing, protective gloves, eye protection, face shield P302+P352 - IF ON SKIN: Wash with plenty of water P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing, Rinse skin with water/shower P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several 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 P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use appropriate media to extinguish P403+P235 - Store in a well-ventilated place. Keep cool P501 - Dispose of contents/container in accordance with local,
regional, national, and international regulations
EUH014 - Reacts violently with water
Even as the many address to these with propositions and skip, or
Exposure may aggravate those with 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]
tert-Butyl acetate	(CAS No) 540-88-5 (EC no) 208-760-7 (EC index no) 607-026-00-7	60 - 65	Flam. Liq. 2, H225
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl, hydroxy- terminated	(CAS No) 68607-77-2	10 - 15	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Silanetriol, ethyl-, triacetate	(CAS No) 17689-77-9 (EC no) 241-677-4	< 2	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel
	unwell, seek medical advice (show the label 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.

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First-aid measures after skin contact	Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
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. May cause drowsiness or dizziness.
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 known.
4.3. Indication of any immedia	te 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 Unsuitable extinguishing media	 Dry chemical, carbon dioxide, water spray, foam, fog. 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	n the substance or mixture
Fire hazard	Highly flammable liquid and vapour. Vapours may travel to source of ignition and flash back.
Explosion hazard	May form flammable/explosive vapour-air mixture.
Reactivity	Reacts violently with strong oxidisers. Increased risk of fire or explosion.
5.3. Advice for firefighters	
Precautionary measures fire	: Exercise caution when fighting any chemical fire. Do not breathe fumes from fires or vapours from decomposition.
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	: Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Refer to Section 9 for flammability properties.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Use only non-sparking tools. Avoid all eyes and skin contact and do not breathe vapour and mist.
6.1.1.For non-emergency perso	nnel
Protective equipment Emergency procedures	Use appropriate personal protection equipment (PPE). Evacuate unnecessary personnel.

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6.1.2.For emergency responde	
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	IS
Prevent entry to sewers and public	c 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 section	ns

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	When heated, material emits irritating fumes. When mixed with air and exposed to an ignition source, flammable vapours can burn in the open or explode in confined spaces. Being heavier than air, vapours may travel long distances to an ignition source and flash back. Runoff to sewer may cause fire or explosion hazard. Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.
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 away from ignition sources (including static discharges). 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)	
No additional information available	

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

tert-Butyl acetate (540-88-5)		
Austria	MAK (mg/m³)	96 mg/m³
Austria	MAK (ppm)	20 ppm
Austria	MAK Short time value (mg/m³)	96 mg/m³
Austria	MAK Short time value (ppm)	20 ppm
Austria	OEL - Ceilings (mg/m³)	96 mg/m³
Austria	OEL - Ceilings (ppm)	20 ppm
Belgium	Limit value (mg/m³)	964 mg/m³
Belgium	Limit value (ppm)	200 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m³)	966 mg/m³

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tert-Butyl aceto	T	
Croatia	GVI (granična vrijednost izloženosti) (ppm)	200 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m³)	1210 mg/m³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	250 ppm
France	VME (mg/m³)	950 mg/m³
France	VME (ppm)	200 ppm
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	200 mg/m ³ (The risk of damage to the embryo or fetus can be excluded wher AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	42 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Greece	OEL TWA (mg/m³)	950 mg/m³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m³)	1190 mg/m ³
Greece	OEL STEL (ppm)	250 ppm
USA ACGIH	ACGIH TWA (ppm)	200 ppm
Latvia	OEL TWA (mg/m³)	200 mg/m³
Spain	VLA-ED (mg/m³)	966 mg/m³
Spain	VLA-ED (ppm)	200 ppm
Switzerland	VLE (mg/m³)	480 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	VME (mg/m³)	240 mg/m³
Switzerland	VME (ppm)	50 ppm
United Kingdom	WEL TWA (mg/m³)	966 mg/m³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m³)	1210 mg/m³
United Kingdom	WEL STEL (ppm)	250 ppm
Czech Republic	Expoziční limity (PEL) (mg/m³)	950 mg/m³
Denmark	Grænseværdie (langvarig) (mg/m³)	710 mg/m³
Denmark	Grænseværdie (langvarig) (ppm)	150 ppm
Finland	HTP-arvo (8h) (mg/m³)	720 mg/m³
Finland	HTP-arvo (8h) (ppm)	150 ppm
Finland	HTP-arvo (15 min)	960 mg/m³
Finland	HTP-arvo (15 min) (ppm)	200 ppm
Ireland	OEL (8 hours ref) (mg/m³)	950 mg/m³
Ireland	OEL (8 hours ref) (ppm)	200 ppm
Ireland	OEL (15 min ref) (mg/m3)	1190 mg/m³
Ireland	OEL (15 min ref) (ppm)	250 ppm
Poland	NDS (mg/m³)	900 mg/m³
Poland	NDSCh (mg/m³)	900 mg/m³
Slovakia	NPHV (priemerná) (mg/m³)	96 mg/m³

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tert-Butyl acetate (540-88-5)		
Slovakia	NPHV (priemerná) (ppm)	20 ppm
Slovakia	NPHV (Hraničná) (mg/m³)	384 mg/m ³
Slovenia	OEL TWA (mg/m³)	96 mg/m³
Slovenia	OEL TWA (ppm)	20 ppm
Slovenia	OEL STEL (mg/m³)	96 mg/m³
Slovenia	OEL STEL (ppm)	20 ppm
Sweden	nivågränsvärde (NVG) (mg/m³)	500 mg/m³
Sweden	nivågränsvärde (NVG) (ppm)	100 ppm
Sweden	kortidsvärde (KTV) (mg/m³)	700 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	150 ppm
Portugal	OEL TWA (ppm)	200 ppm

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Proper grounding procedures to avoid static electricity should be followed. 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

Avoid all unnecessary exposure. Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing	Wear fire/flame resistant/retardant clothing.
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	: Translucent
Odour	: Solvent
Odour threshold	: No data available
рН	: No data available
Relative evaporation rate (butylacetate=1)	: 2,8 (Butyl Acetate = 1)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 98 °C (208,4 °F)
Flash point	: 4,4 °C (39,92 °F)
Auto-ignition temperature	: 517,8 °C (964,04 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 41,5 mm Hg @ 25 °C (77 °F)

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Relative vapour density at 20 °C	: No data available
Relative Density	: 1 (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	60 - 65 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

10.2. Chemical stability

Can form explosive mixture with air.

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 oxidizers. Strong acids. Strong bases. Metals. Nitrates.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides. Formaldehyde. Fluorine compounds. Hydrocarbons. 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.

SECTION 11: Toxicological information

Silanetriol, ethyl-, triacetate (17689-77-9)		
1460 mg/kg		
4500 mg/kg		
3300 mg/kg		
> 2000		
> 2230 mg/m³ (Exposure time: 4 h)		
5157 ppm/4h		
13,3 mg/l/4h		
Causes skin irritation. Causes serious eye irritation. Not classified Not classified Not classified		
exposure) : Not classified		

11.1. Information on toxicological effects

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Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard Not classified

SECTION 12: Ecological information

12.1. Toxicity

LC50 fish 1 296 - 362 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) 12.2. Persistence and degradability No additional information available No additional information available Image: state	tert-Butyl acetate (540-88-5)			
No additional information available 12.3. Bioaccumulative potential tert-Butyl acetate (540-88-5) Log Pow 1.38 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	LC50 fish 1			
12.3. Bioaccumulative potential tert-Butyl acetate (540-88-5) Log Pow 1,38 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	12.2. Persistence and degradabi	lity		
tert-Butyl acetate (540-88-5) Log Pow 1,38 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	No additional information available			
Log Pow 1,38 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	12.3. Bioaccumulative potential			
 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 	tert-Butyl acetate (540-88-5)	tert-Butyl acetate (540-88-5)		
No additional information available 12.5. Results of PBT and vPvB assessment No additional information available	Log Pow	1,38		
No additional information available	-			
12.6. Other adverse effects				
	12.6. Other adverse effects			
Other information Avoid release to the environment.	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.
Additional information	Handle empty containers with care because residual vapours are flammable.
Ecology - waste materials	Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number	
UN-No. (ADR)	1123
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	BUTYL ACETATES
Transport document description (ADR)	UN 1123 BUTYL ACETATES (Contains Tert-butyl acetate), 3, II, (D/E)
14.3. Transport hazard class(es)	
Class (ADR)	: 3
Danger labels (ADR)	: 3
14.4. Packing group	
Packing group (ADR)	: II
14.5. Environmental hazards	
Other information	No supplementary information available.

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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 60 - 65 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Indication of changes:

Secti on	Section Header	Change	Date Changed
1	Identification of the substance/mixture and of the company/undertaking	Modified.	02/06/2016
2	Hazards identification	Modified. Removed DSD/DPD information.	02/06/2016
3	Composition/information on ingredients	Modified. Removed not classified components. Removed DSD/DPD information.	02/06/2016
9	Information on basic physical and chemical properties	Modified.	02/06/2016

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14	Transport information	Modified.	02/06/2016
15.1	EU-Regulations	Modified.	02/06/2016

Revision date Data sources 02/06/2016

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Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
EUH014	Reacts violently with water

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.