

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Revision date:
10/09/2015

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12/11/2013

Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Product Name : MED11-6604
Synonyms : Silicone Dispersion

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 : Coating metal and other substrates. 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]

Flam. Liq. 1 H224
Skin Corr. 1C H314
Eye Dam. 1 H318
Carc. 2 H351
STOT SE 3 H335

Full text of classification categories and H statements: see section 1.6

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) :



Signal word (CLP) : Danger
Hazardous ingredients : Tetrahydrofuran, Silanetriol, methyl-, triacetate
Hazard statements (CLP) : H224 - Extremely flammable liquid and vapour
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation
H351 - Suspected of causing cancer
Precautionary statements (CLP) : P201 - Obtain special instructions before use

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P202 - Do not handle until all safety precautions have been read and understood
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233 - Keep container tightly closed
P240 - Ground/bond container and receiving equipment
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P260 - Do not breathe vapours, spray, mist
P264 - Wash hands, forearms and face thoroughly after handling
P271 - Use only outdoors or in a well-ventilated area
P280 - Wear protective gloves, protective clothing, face protection, eye protection
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a POISON CENTER or doctor
P312 - Call a POISON CENTER or doctor if you feel unwell
P321 - Specific treatment (see Section 4 on this SDS)
P370+P378 - In case of fire: Use carbon dioxide (CO₂), alcohol resistant foam, dry extinguishing powder to extinguish
P403+P233 - Store in a well-ventilated place. Keep container tightly closed
P235+P405 - Keep cool. Store locked up
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations
EUIH019 - May form explosive peroxides

EUIH-statements

2.3. Other Hazards

Other hazards not contributing to the classification

Unknown Acute Toxicity

Unknown Aquatic Toxicity

Unknown hazards to the aquatic environment (CLP)

Flammable vapours can accumulate in head space of closed systems. Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
0 % of the mixture consists of ingredients of unknown acute toxicity.
45 - 50 % of the mixture consists of ingredients of unknown aquatic toxicity.
Contains 50 % of components with unknown hazards to the aquatic environment.

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]
Tetrahydrofuran	(CAS No) 109-99-9 (EC no) 203-726-8 (EC index no) 603-025-00-0	45 - 50	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Silanetriol, methyl-, triacetate	(CAS No) 4253-34-3 (EC no) 224-221-9	5 - 6	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Tetrahydrofuran	(CAS No) 109-99-9 (EC no) 203-726-8 (EC index no) 603-025-00-0	(C >= 25) Eye Irrit. 2, H319 (C >= 25) 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 where possible).
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.
- First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Immediately flush skin with plenty of water for at least 60 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.
- First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

- Symptoms/injuries : Causes severe skin burns and eye damage. May cause respiratory irritation. Suspected of causing cancer.
- Symptoms/injuries after inhalation : May cause respiratory irritation. Symptoms may include: Irritating to mouth, nose, throat, and lungs, may cause difficulty in breathing.
- Symptoms/injuries after skin contact : Causes severe irritation which will progress to chemical burns.
- Symptoms/injuries after eye contact : Causes serious eye damage. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects. Swallowing a small quantity of this material will result in serious health hazard.
- Chronic symptoms : Suspected of causing cancer.

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

If exposed or concerned, get medical advice and attention.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO₂).
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Extremely flammable liquid and vapour.
- Explosion hazard : May form flammable/explosive vapour-air mixture.

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Reactivity : When exposed to air, unstabilized tetrahydrofuran forms unstable peroxides that may spontaneously explode when their concentrations exceed 1 percent. Contact of tetrahydrofuran with strong oxidizing agents may cause explosions. Tetrahydrofuran may polymerize in the presence of cationic initiators. Contact with lithium aluminum hydride, other lithium-aluminum alloys, or with sodium or potassium hydroxide can be hazardous if peroxides are present. Refluxing with calcium hydroxide can cause explosions.

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 : Do not allow run-off from fire fighting to enter drains or water sources.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. – No smoking. Avoid breathing (vapour, mist, spray). Do not get in eyes, on skin, or on clothing.

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 : Use appropriate personal protection equipment (PPE).
Emergency procedures : Ventilate area. Stop leak if safe to do so. Eliminate ignition sources.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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 : Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Do not take up in combustible material such as: saw dust or cellulosic material. Clean up spills immediately and dispose of waste safely.

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

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable. 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 again when leaving work. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

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7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical, ventilating, and lighting equipment. Comply with applicable regulations.
- Storage conditions : Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep in fireproof place. Store locked up. Keep/Store away from extremely high or low temperatures, heat, ignition sources, direct sunlight, incompatible materials. Store in a fireproof place. Storage areas should be checked periodically for corrosion and integrity.
- Incompatible products : Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Tetrahydrofuran (109-99-9)		
EU	IOELV TWA (mg/m ³)	150 mg/m ³
EU	IOELV TWA (ppm)	50 ppm
EU	IOELV STEL (mg/m ³)	300 mg/m ³
EU	IOELV STEL (ppm)	100 ppm
Austria	MAK (mg/m ³)	150 mg/m ³
Austria	MAK (ppm)	50 ppm
Austria	MAK Short time value (mg/m ³)	300 mg/m ³
Austria	MAK Short time value (ppm)	100 ppm
Austria	OEL chemical category (AT)	Skin notation
Belgium	Limit value (mg/m ³)	150 mg/m ³
Belgium	Limit value (ppm)	50 ppm
Belgium	Short time value (mg/m ³)	300 mg/m ³
Belgium	Short time value (ppm)	100 ppm
Belgium	OEL chemical category (BE)	Skin, Skin notation
Bulgaria	OEL TWA (mg/m ³)	150,0 mg/m ³
Bulgaria	OEL TWA (ppm)	50,0 ppm
Bulgaria	OEL STEL (mg/m ³)	100 mg/m ³
Bulgaria	OEL STEL (ppm)	300,0 ppm
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	150 mg/m ³
Croatia	GVI (granična vrijednost izloženosti) (ppm)	50 ppm
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³)	300 mg/m ³
Croatia	KGVI (kratkotrajna granična vrijednost izloženosti) (ppm)	100 ppm
Croatia	OEL chemical category (HR)	Skin notation
Croatia	Croatia - BEI	8 mg/l (Medium: urine - Time: at the end of the shift - Parameter: Tetrahydrofuran)
Cyprus	OEL TWA (mg/m ³)	150 mg/m ³
Cyprus	OEL TWA (ppm)	50 ppm
Cyprus	OEL STEL (mg/m ³)	300 mg/m ³

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Tetrahydrofuran (109-99-9)		
Cyprus	OEL STEL (ppm)	100 ppm
Cyprus	OEL chemical category (CY)	Skin-potential for cutaneous absorption
France	VLE (mg/m ³)	300 mg/m ³ (restrictive limit)
France	VLE (ppm)	100 ppm (restrictive limit)
France	VME (mg/m ³)	150 mg/m ³ (restrictive limit)
France	VME (ppm)	50 ppm (restrictive limit)
France	OEL chemical category (FR)	Risk of cutaneous absorption
Germany	TRGS 900 Occupational exposure limit value (mg/m ³)	150 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 900 Occupational exposure limit value (ppm)	50 ppm (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
Germany	TRGS 903 (BGW)	2 mg/l (Medium: urine - Time: end of shift - Parameter: Tetrahydrofuran)
Germany	TRGS 900 chemical category	Skin notation
Gibraltar	OEL TWA (mg/m ³)	150 mg/m ³
Gibraltar	OEL TWA (ppm)	50 ppm
Gibraltar	OEL STEL (mg/m ³)	300 mg/m ³
Gibraltar	OEL STEL (ppm)	100 ppm
Gibraltar	OEL chemical category (GI)	Skin notation
Greece	OEL TWA (mg/m ³)	590 mg/m ³
Greece	OEL TWA (ppm)	200 ppm
Greece	OEL STEL (mg/m ³)	735 mg/m ³
Greece	OEL STEL (ppm)	250 ppm
USA ACGIH	ACGIH TWA (ppm)	50 ppm
USA ACGIH	ACGIH STEL (ppm)	100 ppm
Italy	OEL TWA (mg/m ³)	150 mg/m ³
Italy	OEL TWA (ppm)	50 ppm
Italy	OEL STEL (mg/m ³)	300 mg/m ³
Italy	OEL STEL (ppm)	100 ppm
Italy	OEL chemical category (IT)	skin - potential for cutaneous absorption
Latvia	OEL TWA (mg/m ³)	150 mg/m ³
Latvia	OEL TWA (ppm)	50 ppm
Latvia	OEL chemical category (LV)	skin - potential for cutaneous exposure
Spain	VLA-ED (mg/m ³)	150 mg/m ³ (indicative limit value)
Spain	VLA-ED (ppm)	50 ppm (indicative limit value)
Spain	VLA-EC (mg/m ³)	300 mg/m ³
Spain	VLA-EC (ppm)	100 ppm
Spain	OEL chemical category (ES)	skin - potential for cutaneous exposure
Spain	Spain - BEI	2 mg/l (Medium: urine - Time: end of shift - Parameter: Tetrahydrofuran (2)
Switzerland	VLE (mg/m ³)	300 mg/m ³
Switzerland	VLE (ppm)	100 ppm
Switzerland	VME (mg/m ³)	150 mg/m ³
Switzerland	VME (ppm)	50 ppm
Switzerland	OEL chemical category (CH)	Skin notation

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Tetrahydrofuran (109-99-9)		
Switzerland	Switzerland - BEI	2 mg/l (Medium: urine - Time: end of shift - Parameter: Tetrahydrofuran)
Netherlands	Grenswaarde TGG 8H (mg/m ³)	300 mg/m ³
Netherlands	Grenswaarde TGG 15MIN (mg/m ³)	600 mg/m ³
United Kingdom	WEL TWA (mg/m ³)	150 mg/m ³
United Kingdom	WEL TWA (ppm)	50 ppm
United Kingdom	WEL STEL (mg/m ³)	300 mg/m ³
United Kingdom	WEL STEL (ppm)	100 ppm
United Kingdom	WEL chemical category	Potential for cutaneous absorption
Czech Republic	Expoziční limity (PEL) (mg/m ³)	150 mg/m ³
Czech Republic	OEL chemical category (CZ)	Potential for cutaneous absorption
Denmark	Grænseværdie (langvarig) (mg/m ³)	150 mg/m ³
Denmark	Grænseværdie (langvarig) (ppm)	50 ppm
Estonia	OEL TWA (mg/m ³)	150 mg/m ³
Estonia	OEL TWA (ppm)	50 ppm
Estonia	OEL STEL (mg/m ³)	300 mg/m ³
Estonia	OEL STEL (ppm)	100 ppm
Estonia	OEL chemical category (ET)	Sensitizer, Skin notation
Finland	HTP-arvo (8h) (mg/m ³)	150 mg/m ³
Finland	HTP-arvo (8h) (ppm)	50 ppm
Finland	HTP-arvo (15 min)	300 mg/m ³
Finland	HTP-arvo (15 min) (ppm)	100 ppm
Finland	OEL chemical category (FI)	Potential for cutaneous absorption
Hungary	AK-érték	150 mg/m ³
Hungary	CK-érték	300 mg/m ³
Hungary	OEL chemical category (HU)	Potential for cutaneous absorption
Ireland	OEL (8 hours ref) (mg/m ³)	150 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	50 ppm
Ireland	OEL (15 min ref) (mg/m ³)	300 mg/m ³
Ireland	OEL (15 min ref) (ppm)	100 ppm
Ireland	OEL chemical category (IE)	Potential for cutaneous absorption
Lithuania	IPRV (mg/m ³)	150 mg/m ³
Lithuania	IPRV (ppm)	50 ppm
Lithuania	TPRV (mg/m ³)	300 mg/m ³
Lithuania	TPRV (ppm)	100 ppm
Lithuania	OEL chemical category (LT)	Skin notation
Luxembourg	OEL TWA (mg/m ³)	150 mg/m ³
Luxembourg	OEL TWA (ppm)	50 ppm
Luxembourg	OEL STEL (mg/m ³)	300 mg/m ³

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Tetrahydrofuran (109-99-9)		
Luxembourg	OEL STEL (ppm)	100 ppm
Luxembourg	OEL chemical category (LU)	Possibility of significant uptake through the skin
Malta	OEL TWA (mg/m ³)	150 mg/m ³
Malta	OEL TWA (ppm)	50 ppm
Malta	OEL STEL (mg/m ³)	300 mg/m ³
Malta	OEL STEL (ppm)	100 ppm
Malta	OEL chemical category (MT)	Possibility of significant uptake through the skin
Norway	Grenseverdier (AN) (mg/m ³)	150 mg/m ³
Norway	Grenseverdier (AN) (ppm)	50 ppm
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	150 mg/m ³
Norway	Grenseverdier (Korttidsverdi) (ppm)	50 ppm
Norway	OEL chemical category (NO)	Skin notation
Poland	NDS (mg/m ³)	150 mg/m ³
Poland	NDSch (mg/m ³)	300 mg/m ³
Romania	OEL TWA (mg/m ³)	150 mg/m ³
Romania	OEL TWA (ppm)	50 ppm
Romania	OEL STEL (mg/m ³)	300 mg/m ³
Romania	OEL STEL (ppm)	100 ppm
Romania	OEL chemical category (RO)	Skin notation
Slovakia	NPHV (priemerná) (mg/m ³)	150 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	50 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	300 mg/m ³
Slovakia	OEL chemical category (SK)	Potential for cutaneous absorption
Slovakia	Slovakia - BEI	2 mg/l (Medium: urine - Time: end of exposure or work shift - Parameter: Tetrahydrofuran)
Slovenia	OEL TWA (mg/m ³)	150 mg/m ³
Slovenia	OEL TWA (ppm)	50 ppm
Slovenia	OEL STEL (mg/m ³)	300 mg/m ³
Slovenia	OEL STEL (ppm)	100 ppm
Slovenia	OEL chemical category (SL)	Potential for cutaneous absorption
Sweden	nivågränsvärde (NVG) (mg/m ³)	150 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	50 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	250 mg/m ³
Sweden	kortidsvärde (KTV) (ppm)	80 ppm
Portugal	OEL TWA (mg/m ³)	150 mg/m ³ (indicative limit value)
Portugal	OEL TWA (ppm)	50 ppm (indicative limit value)
Portugal	OEL STEL (mg/m ³)	300 mg/m ³ (indicative limit value)
Portugal	OEL STEL (ppm)	100 ppm (indicative limit value)
Portugal	OEL chemical category (PT)	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, skin - potential for cutaneous exposure indicative limit value

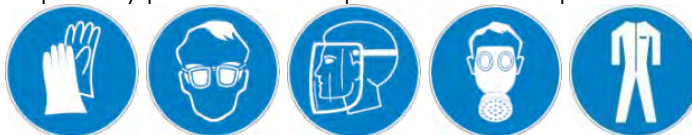
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8.2. Exposure controls

- Appropriate engineering controls : Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapours may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.
- Personal protective equipment : Gloves. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection. Full protective flameproof 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 : In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- Environmental exposure controls : Avoid release to 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 : Transparent
- Odour : Solvent
- Odour threshold : 31 ppm
- pH : No data available
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 18 °C (65 °F)
- Flash point : - 14 °C (6 °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 : 0,98 (water =1)
- Solubility : Insoluble in water
- 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 : Not applicable

9.2. Other information

- VOC content : 45 - 50 %

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SECTION 10: Stability and reactivity

10.1. Reactivity

When exposed to air, unstabilized tetrahydrofuran forms unstable peroxides that may spontaneously explode when their concentrations exceed 1 percent. Contact of tetrahydrofuran with strong oxidizing agents may cause explosions. Tetrahydrofuran may polymerize in the presence of cationic initiators. Contact with lithium aluminum hydride, other lithium-aluminum alloys, or with sodium or potassium hydroxide can be hazardous if peroxides are present. Refluxing with calcium hydroxide can cause explosions.

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

Hazardous polymerization may occur if exposed to high temperature.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, open flames, sources of ignition and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). May release flammable gases. Silicon oxides. Toxic gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Tetrahydrofuran (109-99-9)	
LD50 oral rat	1650 mg/kg
LD50 oral	1851 mg/kg
LC50 inhalation rat (ppm)	21000 ppm (Exposure time: 3 h)
LC50 inhalation rat (Vapours - mg/l/4h)	53,65 mg/l/4h
ATE CLP (oral)	1650,000 mg/kg bodyweight
Silanetriol, methyl-, triacetate (4253-34-3)	
LD50 oral rat	1437 - 1780 mg/kg
LD50 oral	1602 mg/kg

Skin corrosion/irritation : Causes severe skin burns and eye damage.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : Not classified
May cause an allergic skin reaction
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.
Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : May cause respiratory irritation.
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

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SECTION 12: Ecological information

12.1. Toxicity

Tetrahydrofuran (109-99-9)	
LC50 fish 1	1970 (1970 - 2360) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	2700 (2700 - 3600) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

12.2. Persistence and degradability

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Persistence and degradability	Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

Tetrahydrofuran (109-99-9)	
BCF fish 1	(will not bioconcentrate)
Log Pow	0,45 (at 25 °C)

Silanetriol, methyl-, triacetate (4253-34-3)	
Log Pow	0,25 KowWin

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 treatment methods : Dispose of waste material in accordance with all local, regional, national, and international regulations.

Sewage disposal recommendations : Do not empty into drains. Do not dispose of waste into sewer.

Additional information : Handle empty containers with care because residual vapours are flammable.

SECTION 14: Transport information

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

14.1. UN number

UN-No. (ADR) : 2924

14.2. UN proper shipping name

Proper Shipping Name (ADR) : FLAMMABLE LIQUID, CORROSIVE, N.O.S.

Transport document description (ADR) : UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. ((Tetrahydrofuran, Methyltriacetoxysilane)), 3 (8), I, (C/E)

14.3. Transport hazard class(es)

Class (ADR) : 3

Subsidiary risk (ADR) : 8

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Danger labels (ADR) : 3, 8



14.4. Packing group

Packing group (ADR) : I

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number : 338

(Kemler No.)

Classification code (ADR) : FC

Orange plates :



Special provisions (ADR) : 274

Transport category (ADR) : 1

Tunnel restriction code (ADR) : C/E

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

EAC code : •3WE

APP code : A(fl)

14.6.2. Transport by sea

EmS-No. (1) : F-E

MFAG-No : 132

EmS-No. (2) : S-E

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 substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : 45 - 50 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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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	06/05/2015
2	Hazards identification	Removed DSD/DPD information.	06/05/2015
3	Composition/information on ingredients	Removed components below cutoffs. Removed DSD/DPD information.	06/05/2015
15.1.1	EU-Regulations	Modified	06/05/2015
3	Composition/information on ingredients	Removed components below cutoffs. Removed DSD/DPD information.	10/09/2015
2.2	Label elements	Removed Dibutyltin dilaurate from hazardous ingredients	10/09/2015

Revision date : 10/09/2015

Data sources : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
EUH019	May form explosive peroxides

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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