

**AUTOSEAL**

Creation date 22. November 2012  
Revision date 21. March 2018 Version 2.0

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

- 1.1. Product identifier**  
Substance / mixture AUTOSEAL  
Number R 34501 - WHITE/R 34502 - GREY/R 34503 - BLACK
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
mixture's intended use Sealing and bonding putty.  
Disapproved uses of mixture For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (ID) 25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
RETECH, Suchdol 212, 285 02 Suchdol u Kutné Hory, Czech Republic; Telephone number: +420 327 596 128 (7.30-16.00 hour)  
Poisoning information centre, Na Bojišti 1, Praha, Czech Republic, Tel.: non-stop +420 224 919 293 or +420 224 915 402, Information on health risks only - acute poisoning of humans and animals.

**SECTION 2: Hazards identification**

- 2.1. Substance or mixture classification**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**  
The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.  
Full text of all classifications and hazard statements is given in the section 16.
- 2.2. Label elements**  
**Supplemental information**  
EUH 210 Safety data sheet available on request.
- 2.3. Other hazards**  
Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

**SECTION 3: Composition/information on ingredients**

- 3.2. Mixtures**  
**Chemical characterization**  
Mixture of substances and additives specified below.  
**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
CAS: 2768-02-7 EC: 220-449-8 Registration number: 01-2119513215-52	Trimethoxyvinylsilane	1-10	Flam. Liq. 3, H226 Acute Tox. 4, H332	

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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note.
EC: 932-078-5 Registration number: 01-2119552497-29	hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics	1-10	Asp. Tox. 1, H304	
Index: 616-200-00-1 EC: 432-430-3 Registration number: 01-0000017860-69	reaction mass of N,N'-ethane-1,2-diylbis (hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)	1-10	Aquatic Chronic 4, H413	

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**Inhalation**

Terminate the exposure immediately; move the affected person to fresh air. In the event of issues, find medical advice.

**Skin contact**

Immediately wash with water and soap and rinse thoroughly. In the event of issues, find medical advice.

**Eye contact**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. In the event of issues, find medical advice.

**Ingestion**

Rinse out the mouth with clean water. In the event of issues, find medical advice.

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

not available

**Skin contact**

not available

**Eye contact**

not available

**Ingestion**

not available

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

not available

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Water spray, polyvalent foam, ABC powder, carbon dioxide.

**Unsuitable extinguishing media**

not available

**5.2. Special hazards arising from the substance or mixture**

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

**5.3. Advice for firefighters**

Use a self-contained breathing apparatus and full-body protective clothing.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment for work. Remove all ignition sources. Prevent contact with skin and eyes.

**6.2. Environmental precautions**

Prevent other leakage. Prevent contamination of the soil and entering surface or ground water.

**6.3. Methods and material for containment and cleaning up**

Place the spilled product mechanically in the properly closed containers and dispose of it according to the section 13. After removal of the product, wash the contaminated site with plenty of water. Wash contaminated clothing before reuse.

**6.4. Reference to other sections**

See the Section 7, 8 and 13.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Keep away from heat, open flames.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a well-ventilated place. Store in a dry place. Keep away from sources of heating, ignition and direct sunlight. Do not allow contact with water. Protect from moisture.

Storage temperature 20 °C

**7.3. Specific end use(s)**

not available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

none

**DNEL**

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxylhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	35.24 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	10 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	5 mg/kg bw/day	Systemic chronic effects	

Trimethoxyvinylsilane

Workers / consumers	Route of exposure	Value	Effect	Determining method
Workers	Inhalation	27.6 mg/m <sup>3</sup>	Systemic chronic effects	
Workers	Dermal	3.9 mg/kg bw/day	Systemic chronic effects	
Consumers	Inhalation	18.9 mg/m <sup>3</sup>	Systemic chronic effects	
Consumers	Dermal	7.8 mg/kg bw/day	Systemic chronic effects	
Consumers	Oral	0.3 mg/kg bw/day	Systemic chronic effects	

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**PNEC**

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Route of exposure	Value	Determining method
Freshwater environment	0.009 mg/l	
Water (occasional leak)	3.7 mg/l	
Seawater	0.001 mg/l	
Microorganisms in wastewater treatment plants	100 mg/l	
Freshwater sediment	384 mg/kg of dry substance of sediment	
Seawater	38.4 mg/kg of dry substance of sediment	
Soil (agricultural)	52.1 mg/kg of dry substance of soil	
Food chain	222.2 mg/kg of food	

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Route of exposure	Value	Determining method
Freshwater environment	0.36 mg/l	
Seawater	0.036 mg/l	
Microorganisms in wastewater treatment plants	6.6 mg/l	
Freshwater sediment	1.3 mg/kg of dry substance of sediment	
Sea sediments	0.13 mg/kg of dry substance of sediment	
Soil (agricultural)	0.055 mg/kg of dry substance of soil	

**8.2. Exposure controls**

Keep away from heat, open flames. Follow the usual measures intended for health protection at work and especially for good ventilation. Keep container tightly closed. Do not eat, drink and smoke during work.

**Eye/face protection**

It is not needed.

**Skin protection**

Hand protection: Protective gloves resistant to the product. Other protection: protective workwear.

**Respiratory protection**

Mask with a filter in a poorly ventilated environment.

**Thermal hazard**

Not available.

**Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2.

**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Appearance	paste
Physical state	no data available at 20°C
color	black / white
Odour	mild
Odour threshold	data not available
pH	data not available

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Melting point/freezing point		data not available	
Initial boiling point and boiling range		data not available	
Flash point		>240 °C	
Evaporation rate		non-applicable	
Flammability (solid, gas)		data not available	
Upper/lower flammability or explosive limits			
flammability limits		data not available	
explosive limits		data not available	
Vapour pressure		data not available	
Vapour density		data not available	
Relative density		1.4	
Solubility(ies)			
solubility in water		insoluble	
solubility in fats		data not available	
solubility in organic solvents		soluble	
Partition coefficient: n-octanol/water		data not available	
Auto-ignition temperature		data not available	
Decomposition temperature		data not available	
Viscosity		data not available	
Explosive properties		data not available	
Oxidising properties		data not available	
data not available			
<b>9.2. Other information</b>			
Density		1.4 g/cm <sup>3</sup> at 20 °C	
ignition temperature		data not available	

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Heating increases the fire hazard.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

not available

**10.4. Conditions to avoid**

Keep away from heat, open flames.

**10.5. Incompatible materials**

Do not allow contact with water. Protect from moisture.

**10.6. Hazardous decomposition products**

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

No toxicological data is available for the mixture.

**Acute toxicity**

Based on available data the classification criteria are not met.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Oral	LD <sub>50</sub>	OECD 401	>5000 mg/kg bw		Rat	F/M	Experimentally

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hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Dermal	LD <sub>50</sub>	OECD 402	>3160 mg/kg bw	24 hour	Rabbit	F/M	Experimentally
Inhalation (aerosols)	LC <sub>50</sub>	OECD 403	>5266 mg/m <sup>3</sup> of air	4 hour	Rat	F/M	Experimentally

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl]octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Oral	LD <sub>50</sub>		>2000 mg/kg				Literary studies
Dermal	LD <sub>50</sub>		>2000 mg/kg				Literary studies

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Route of exposure	Parameter	Method	Value	Time of exposure	Species	Sex	Determining method
Oral	LD <sub>50</sub>	OECD 401	7120-7236 mg/kg bw		Rat	F/M	Experimentally
Dermal	LD <sub>50</sub>	OECD 402	3259 mg/kg bw	24 hour	Rabbit	F	
Inhalation (vapor)	LC <sub>50</sub>	OECD 403	16.81 mg/l	4 hour	Rat	F/M	Experimentally

**Skin corrosion/irritation**

Based on available data the classification criteria are not met.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Skin	Not irritating	OECD 404	4 hour	Rabbit	Experimentally
Skin	Not irritating		24 hour	Human	Experimentally

Trimethoxyvinylsilane

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Skin	Not irritating		24 hour	Rabbit	Experimentally

**Serious eye damage/irritation**

Based on available data the classification criteria are not met.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Route of exposure	Result	Method	Time of exposure	Species	Determining method
Eye	Not irritating	OECD 405	24 hour	Rabbit	Experimentally

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Route of exposure	Result	Method	Time of exposure	Species	Determining method
Eye	Not irritating	OECD 405	24 hour	Rabbit	Experimentally

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**Respiratory or skin sensitisation**

Based on available data the classification criteria are not met.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
Skin	Not sensitizing	OECD 406	24 hour	Hamster	F	Read-across
Skin	Not sensitizing		216 hour	Human	F/M	Experimentally

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
	Not sensitizing	OECD 429		Mouse		Experimentally

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Route of exposure	Result	Method	Time of exposure	Species	Sex	Determining method
Skin	Not sensitizing	OECD 406		Hamster	F/M	Experimentally

**Mutagenicity**

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative	OECD 471			Bacteria (Salmonella typhimurium)		Experimentally	in vitro
Negative	OECD 471	8 week (6 hour/day, 5 days/week)		Mouse	M	Read-across	in vivo
Negative	OECD 475			Rat	F/M	Read-across	in vivo
Negative	OECD 474			Mouse	F/M	Read-across	in vivo

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Negative	in vitro			Bacteria (Salmonella typhimurium)		Literary studies	Ames test
Negative	in vitro			Bacteria (Escherichia Coli)		Literary studies	Ames test
Negative	in vitro			Human		Literary studies	Chromosome aberration assay

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Result	Method	Time of exposure	Specific target organ	Species	Sex	Determining method	Source
Mutagenic	OECD 473			Guinea-pig (CHL/IU cells)		Experimentally	in vitro
Negative without metabolic regeneration, Negative with metabolic regeneration	OECD 476		Female reproductive organs	Guinea-pig (Chinese hamster)		Experimentally	in vitro
Negative				Mouse	F/M	Experimentally	in vivo EPA 560/6-83-001

**Germ cell mutagenicity**

Based on available data the classification criteria are not met.

**Carcinogenicity**

Based on available data the classification criteria are not met.

**Reproductive toxicity**

Based on available data the classification criteria are not met.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, &lt;0.03 % aromatics

	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Determining method	Source
Evolution toxicity	NOAEL	OECD 414	>1000 mg/kg bw/day	10 day	No effect	Rat		Experimentally	
Effects on fertility	NOAEC	OECD 416	≥1500 ppm	13 week (6 hour/day, 5 days/week)	No effect	Rat	F/M	Read-across	
Effects on fertility	NOAEC	OECD 421	≥300 ppm	8 week (6 hour/day, 5 days/week)	No effect	Rat	F/M	Read-across	
Effects on fertility	NOAEL	OECD 422	>1000 ppm	6 week (7 days/week)	No effect	Rat	F/M	Read-across	

## Trimethoxyvinylsilane

	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Determining method	Source
Evolution toxicity	NOAEL		100 ppm	10 day (6 hour/day)	No effect	Rat	F	Experimentally	EPA OTS 798.43 50



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## Trimethoxyvinylsilane

	Parameter	Method	Value	Time of exposure	Result	Species	Sex	Determining method	Source
Effects on fertility	NOAEL		25 ppm	10 day (6 hour/day)	No effect	Rat	F	Experimentally	EPA OTS 798.43 50
Effects on fertility	NOAEL (P)	OECD 422	1000 mg/kg bw/day	≤43 day	No effect	Rat	M	Experimentally	
Effects on fertility	NOAEL (P)	OECD 422	250 mg/kg bw/day	≥60 day	No effect	Rat	F	Experimentally	

**Toxicity for specific target organ - single exposure**

Based on available data the classification criteria are not met.

## hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, &lt;0.03 % aromatics

Route of exposure	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method
Oral	NOAEL	OECD 408	≥5000 mg/kg bw/day	13 day		No effect	Rat	F/M	Read-across
Inhalation (vapor)	NOAEC	OECD 413	≥10400 mg/m <sup>3</sup> of air	13 day (6 hour/day, 5 days/week)		No effect	Rat	F/M	Read-across

## reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Route of exposure	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method
	NOAEL		1000 mg/kg bw/day	28 day		No effect	Rat		Literary studies

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Route of exposure	Parameter	Method	Value	Time of exposure	Specific target organ	Result	Species	Sex	Determining method
Oral	LOAEL	OECD 422	62.5 mg/kg bw/day			Histopathological changes	Rat	M	Experimentally
Inhalation (vapor)	NOAEC		10 ppm	14 week (6 hour/day, 5 days/week)	Undefined	No effect	Rat	F/M	Experimentally

**Toxicity for specific target organ - repeated exposure**

Based on available data the classification criteria are not met.

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**Aspiration hazard**

Based on available data the classification criteria are not met.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Acute toxicity**

Data for the mixture are not available.

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>	OECD 203	>1028 mg/l	96 hour	Fishes (Scophthalmus maximus)		Experimentally	
LC <sub>50</sub>		>3193 mg/l	48 hour	Invertebrates (Acartia tonsa)		Experimentally	
ErC <sub>50</sub>	ISO 10253	>10000 mg/l	72 hour	Algae and other aquatic plants (Skeletonema costatum)		Experimentally	

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>		>1000 mg/l	96 hour	Fishes (Oncorhynchus mykiss)		Literary studies	
EC <sub>50</sub>		>1000 mg/l	48 hour	Invertebrates (Daphnia magna)		Literary studies	
EC <sub>50</sub>		85 mg/l	96 hour	Algae and other aquatic plants		Calculation of value	EPIWIN 3.10

Trimethoxyvinylsilane

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
LC <sub>50</sub>		191 mg/l	96 hour	Fishes (Oncorhynchus mykiss)	Freshwater	Experimentally, Nominal concentration	
EC <sub>50</sub>	EU C.2 (84/449/EEC)	168.7 mg/l	48 hour	Daphnia (Daphnia magna)	Freshwater	Experimentally, GLP	
EC <sub>50</sub>		210 mg/l	7 day	Algae (Pseudokirchneriella subcapitata)	Freshwater	Experimentally, Nominal concentration	EPA 67014-73-0

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**Chronic toxicity**

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
NOEL		>1000 mg/l	28 day	Fishes (Oncorhynchus mykiss)		QSAR	
NOEL		>1000 mg/l	21 day	Aquatic invertebrates (Daphnia magna)		QSAR	
EC <sub>50</sub>	OECD 209	>100 mg/l	3 hour	Aquatic mikroorganisms	Freshwater	Experimentally	

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
NOEC		0.9 mg/l	21 day	Aquatic invertebrates (Daphnia magna)	Freshwater	Experimentally	EPIWIN 3.10

Trimethoxyvinylsilane

Parameter	Method	Value	Time of exposure	Species	Environment	Determining method	Source
NOEC	OECD 211	28.1 mg/l	21 day	Invertebrates (Daphnia magna)	Freshwater	Experimentally, GLP	

**12.2. Persistence and degradability**

**Biodegradability**

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 306	74 %	28 day	Salt water	Experimentally		

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan amide)

Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
		20 %	28 day		Literary studies		

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Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
	OECD 301F	51 %	28 day	Freshwater	Experimentally		

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Parameter	Method	Value	Time of exposure	Environment	Determining method	Result	Source
DT <sub>50</sub>			0,56 day	Atmosphere	Calculation of value		50000 OH-radical/cm <sup>3</sup>
pH		7	<2,4 hour	Freshwater	Based on evidence		OECD 111

Data not available.

**12.3. Bioaccumulative potential**

reaction mass of N,N'-ethane-1,2-diylbis(hexanamide) and 12-hydroxy-N-[2-[(1-oxohexyl)amino]ethyl] octadecanamide and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method	Source
Log Kow	>6					Experimentally	EU Method A.8

Trimethoxyvinylsilane

Parameter	Value	Time of exposure	Species	Environment	Surrounding temperature [°C]	Determining method	Source
Log Kow	-2				20°C	QSAR, Calculation of value	KOWWIN

Not available.

**12.4. Mobility in soil**

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03 % aromatics

Parameter	Value	Environment	Surrounding temperature	Determining method	Source
	7.4 %			Calculation of value	Mackay level III

Trimethoxyvinylsilane

Parameter	Value	Environment	Surrounding temperature	Determining method	Source
			25°C		8,72.10 <sup>-5</sup> atm m <sup>3</sup> /mol

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Other adverse effects**

Not available.

**SECTION 13: Disposal considerations**

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**13.1. Waste treatment methods**

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.

**Legislation of waste**

Council Directive 75/442/EEC on waste, as amended. Decree No. 383/2001 Coll., on details regarding waste handling as amended. Decree No. 93/2016 Coll., (waste catalogue) as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

**Waste type code**

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

**Packaging waste type code**

15 01 02 plastic packaging

**SECTION 14: Transport information****14.1. UN number**

Not subject to ADR.

**14.2. UN proper shipping name**

not available

**14.3. Transport hazard class(es)**

not available

**14.4. Packing group**

not available

**14.5. Environmental hazards**

not available

**14.6. Special precautions for user**

Reference in the Sections 4 to 8.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended (the Chemical Act). The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. The Act No. 258/2000 Coll., on Protection of Public Health as amended. Decree No. 361/2007 Coll., determining conditions of occupational health protection as amended. Decree No. 415/2012 Coll., on the permissible level of pollution and its determination and implementation of certain other provisions of the Air Protection Act as amended. The Act No. 185/2001 Coll., on Waste and the Amendment of Some Other Acts as amended. The Act No. 201/2012 Coll., on the Protection of Atmosphere – Clean Air Act as amended. Decree No. 432/2003 Coll., laying down conditions for assigning categories to individual jobs, limit values of indices from biological exposure tests, conditions for the sampling of biological materials for biological exposure and the particulars of the reports on work with asbestos and biological agents as amended. REGULATION (EC) No 648/2004 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 March 2004 on detergents, as amended.

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**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H332	Harmful if inhaled.
H413	May cause long lasting harmful effects to aquatic life.

**A list of additional standard phrases used in the safety data sheet**

EUH 210 Safety data sheet available on request.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EC	Identification code for each substance listed in EINECS
EC <sub>50</sub>	Concentration of a substance when it is affected 50% of the population
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
IC <sub>50</sub>	Concentration causing 50% blockade
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
LOAEC	Lowest observed adverse effect concentration
LOAEL	Lowest observed adverse effect level
log K <sub>ow</sub>	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution From Ships
NOAEC	No observed adverse effect concentration
NOAEL	No observed adverse effect level
NOEC	No observed effect concentration
NOEL	No observed effect level
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted no-effect concentration
ppm	Parts per million

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REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative

Acute Tox.	Acute toxicity
Aquatic Chronic	Hazardous to the aquatic environment
Asp. Tox.	Aspiration hazard
Flam. Liq.	Flammable liquid

**Training guidelines**

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

**Recommended restrictions of use**

not available

**Information about data sources used to compile the Safety Data Sheet**

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. The Act No. 350/2011 Coll., on Chemical Substances and Chemical Preparations as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

**The changes (which information has been added, deleted or modified)**

2, 3, 8, 11, 12, 15, 16

**Statement**

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.