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Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 15.03.2016 / 0001

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Valid from: 18.11.2015

PDF print date: 19.11.2016

Adiseal Adhesive & Sealant Colours

## **Safety data sheet according to Regulation (EC) No 1907/2006, Annex II**

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

#### **1.1 Product identifier**

#### **Adiseal Adhesive & Sealant Colours**

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

##### **Relevant identified uses of the substance or mixture:**

Seam sealant

##### **Uses advised against:**

No information available at present.

#### **1.3 Details of the supplier of the safety data sheet**

Adiseal Ltd, Unit 29, St Mary's St, Preston, Lancashire, UK. PR1 5LN

Tel: 01772 556658

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### **1.4 Emergency telephone number**

##### **Emergency information services / official advisory body:**

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##### **Telephone number of the company in case of emergencies:**

+49 (0) 700 / 24 112 112 (ISA)

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture Classification according to Regulation (EC) 1272/2008 (CLP)**

The mixture is not classified as dangerous in the terms of the Regulation (EC) 1272/2008 (CLP).

#### **2.2 Label elements**

##### **Labeling according to Regulation (EC) 1272/2008 (CLP)**

EUH208-Contains N-(3-(trimethoxysilyl)propyl)ethylenediamine, Dioctylbis(pentane-2,4-dionato-O,O')tin. May produce an allergic reaction.

EUH210-Safety data sheet available on request.

#### **2.3 Other hazards**

The mixture does not contain any vPvB substance (vPvB = very persistent, very bio accumulative) or is not included under XIII of the regulation (EC) 1907/2006.

The mixture does not contain any PBT substance (PBT = persistent, bio accumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006.

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

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### 3.1 Substance

n.a.

### 3.2 Mixture

<b>trimethoxyvinylsilane</b>	
<b>Registration number (REACH)</b>	01-2119513215-52-XXXX
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	220-449-8
<b>CAS</b>	2768-02-7
<b>content %</b>	1-5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Flam. Liq. 3, H226 Acute Tox. 4, H332

<b>Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediylbis-</b>	
<b>Registration number (REACH)</b>	--
<b>Index</b>	---
<b>EINECS, ELINCS, NLP</b>	907-495-0 (REACH-IT List-No.)
<b>CAS</b>	---
<b>content %</b>	1-5
<b>Classification according to Regulation (EC) 1272/2008 (CLP)</b>	Aquatic Chronic 3, H412

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.

The substances named in this section are given with their actual, appropriate classification!

For substances that are listed in appendix VI, table 3.1/3.2 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### Inhalation

Supply person with fresh air and consult doctor according to symptoms.

#### Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.

Do not induce vomiting - give copious water to drink. Consult doctor immediately. Upon contact with stomach acid development of:

Methanol

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

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

n.c.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

Adapt to the nature and extent of fire.

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Water jet spray / alcohol resistant foam / CO2 / dry extinguisher

### **Unsuitable extinguishing media**

None known

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

In case of fire the following can

develop: Oxides of carbon

Toxic gases

### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes. Protective respirator with independent air supply. According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

## **SECTION 6: Accidental release measures**

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

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

### **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent from entering drainage system.

Prevent surface and ground-water infiltration, as well as ground penetration.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Or:

Pick up mechanically and dispose of according to Section

13. Flush residue using copious water.

### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

## **SECTION 7: Handling and storage**

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

### **7.1 Precautions for safe handling**

#### **7.1.1 General recommendations**

Ensure good ventilation.

Avoid contact with eyes or skin.

Avoid long lasting or intensive contact with skin.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room. Observe directions on label and instructions for use.

#### **7.1.2 Notes on general hygiene measures at the workplace**

General hygiene measures for the handling of chemicals are

applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

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

Not to be stored in gangways or stair wells.

Store product closed and only in original

packing. Store in a well ventilated place.

Store in a dry place.

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

No information available at present.

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

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## 8.1 Control parameters

The methanol listed below can arise upon contact with water.

Chemical Name	Methanol		Content %:
WEL-TWA: 200 ppm (266 mg/m <sup>3</sup> ) (WEL), 200 ppm (260 mg/m <sup>3</sup> ) (EU)		WEL-STEL: 250 ppm (333 mg/m <sup>3</sup> ) (WEL)	---
Monitoring procedures:			
<ul style="list-style-type: none"> <li>- Compur - KITA-119 SA (549 640)</li> <li>- Compur - KITA-119 U (549 657)</li> <li>- Draeger - Alcohol 25/a Methanol (81 01 631)</li> <li>- DFG (D) (Lösungsmittelgemische 6), DFG (E) (Solvent mixtures 6) - 1998,</li> <li>- 2002 - EU project BC/CEN/ENTR/000/2002-16 card 65-1 (2004)</li> <li>- Draeger - Alcohol 25/a (81 01 631)</li> <li>- Draeger - Alcohol 100/a (CH 29 701)</li> </ul>			
BMGV: ---			Other information: Sk (WEL, EU)
Chemical Name	Calcium carbonate		Content %:
WEL-TWA: 4 mg/m <sup>3</sup> (respirable dust), 10 mg/m <sup>3</sup> (total inhalable dust)		WEL-STEL: ---	---
Monitoring procedures: ---			
BMGV: ---			Other information: ---

⊗ WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8 -hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

### trimethoxyvinylsilane

Area of application	Exposure route / Environmental compartment	Effect on health	Description	Value	Unit	Note
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	0,69	mg/kg bw/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	4,9	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	0,69	mg/kg bw/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4,9	mg/kg	
	Environment - freshwater		PNEC	0,34	mg/l	
	Environment - marine		PNEC	0,034	mg/l	
	Environment - water, sporadic (intermittent) release		PNEC	3,4	mg/l	
	Environment - sewage treatment plant		PNEC	110	mg/l	
Consumer	Human - dermal	Short term, systemic effects	DNEL	26,9	mg/kg bw/day	
Consumer	Human - inhalation	Short term, systemic effects	DNEL	93,4	mg/m <sup>3</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,3	mg/kg bw/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	1,04	mg/m <sup>3</sup>	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,3	mg/kg bw/day	

	Environment - sediment, freshwater		PNEC	0,27	mg/kg	
	Environment - sediment, marine		PNEC	0,12	mg/kg	
	Environment - soil		PNEC	0,046	mg/kg	

**Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediylbis-**

Area of application	Exposure route / Environmental compartment	Effect on health	Description	Value	Unit	Note
Workers / employees	Human - inhalation	Short term, local effects	DNEL	3	mg/m3	
Workers / employees	Human - dermal	Short term, local effects	DNEL	11,2	mg/cm2	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	3	mg/m3	
Workers / employees	Human - dermal	Long term, local effects	DNEL	3,75	mg/cm2	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	3	mg/m3	
Consumer	Human - dermal	Short term, local effects	DNEL	11,2	mg/cm2	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,56	mg/kg bw/day	
Consumer	Human - dermal	Long term, local effects	DNEL	3,75	mg/cm2	
	Environment - soil		PNEC	217	mg/kg dw	
	Environment - sediment, freshwater		PNEC	1080	mg/kg dw	
	Environment - sediment, marine		PNEC	108	mg/kg dw	
	Environment - freshwater		PNEC	43,2	µg/l	
	Environment - marine		PNEC	4,32	µg/l	
	Environment - sewage treatment plant		PNEC	10	mg/l	

<b>Methanol</b>						
Area of application	Exposure route / Environmental compartment	Effect on health	Description	Value	Unit	Note
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	40	mg/kg body weight/day	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	260	mg/m3	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	260	mg/m3	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	40	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	260	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	260	mg/m3	
Consumer	Human - dermal	Short term, systemic effects	DNEL	8	mg/kg body weight/day	

Consumer	Human - inhalation	Short term, systemic effects	DNEL	50	mg/m <sup>3</sup>	
Consumer	Human - oral	Short term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - dermal	Long term, systemic effects	DNEL	8	mg/kg body weight/day	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	50	mg/m <sup>3</sup>	
Consumer	Human - oral	Long term, systemic effects	DNEL	8	mg/kg body weight/day	
	Environment - freshwater		PNEC	154	mg/l	
	Environment - marine		PNEC	154	mg/l	
	Environment - sediment, freshwater		PNEC	570,4	mg/kg	
	Environment - sediment, marine		PNEC	57,04	mg/kg	
	Environment - soil		PNEC	23,5	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	1540	mg/l	
	Environment - sewage treatment plant		PNEC	100	mg/l	

### Calcium carbonate

Area of application	Exposure route / Environmental compartment	Effect on health	Description	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	10	mg/m <sup>3</sup>	
Consumer	Human - oral	Short term, systemic effects	DNEL	6,1	mg/kg bw/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	6,1	mg/kg bw/day	
	Environment - sewage treatment plant		PNEC	100	mg/l	

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn. Applies only if maximum permissible exposure values are listed here.

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable. Wash hands before breaks and at end of work.

Keep away from food, drink and animal feeding stuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

With danger of contact with eyes.

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN 374).

If applicable

Safety gloves made of butyl (EN 374)

Protective nitrile gloves (EN 374)

Protective hand cream recommended.

Permeation time (penetration time) in minutes: 30

The breakthrough times determined in accordance with EN 374 Part 3 were not obtained under practical conditions. The recommended maximum wearing time is 50% of breakthrough time.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

Normally not necessary.

Thermal hazards:

If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents. Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account. Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Paste, Solid
Colour:	According to specification
Odour:	Aromatic
Odour threshold:	Not determined
pH-value:	~7
Melting point/freezing point:	<-40 °C
Initial boiling point and boiling range:	Not determined
Flash point:	n.a.
Evaporation rate:	Not determined
Flammability (solid, gas):	>440 °C
Lower explosive limit:	n.a.
Upper explosive limit:	n.a.
Vapour pressure:	Not determined
Vapour density (air = 1):	n.a.
Density:	1,53-1,56 g/l
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Soluble
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	>20,5 mm <sup>2</sup> /s
Explosive properties:	No
Oxidising properties:	No

### 9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	No
Conductivity:	Not determined

Surface tension:  
Solvents content:

Not determined  
0,0 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Product may hydrolyse.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

See also Subsection 10.1 to 10.6.

### 10.4 Conditions to avoid

See also section

7. Strong heat

Protect from humidity.

Product may hydrolyse.

### 10.5 Incompatible materials

See also section 7.

Avoid contact with strong alkalis.

Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

See also section 5.2

On contact with moist

air: Methanol

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Possibly more information on health effects, see Section 2.1 (classification).

#### Adiseal Adhesive & Sealant Colours

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:	ATE	>20	mg/l/4h			calculated value, Vapours, Dust
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

trimethoxyvinylsilane						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	7120	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	



Acute toxicity, by dermal route:	LD50	3540	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LD50	2773	ppm/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Aerosol
Acute toxicity, by inhalation:	LC50	16,8	mg/l/4h	Rat		Vapours
Acute toxicity, by inhalation:	LC50	16,8	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Slightly irritant
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:						Negative
Carcinogenicity:						Negative
Reproductive toxicity:						Negative
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	<62,5	mg/kg	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test)	
Specific target organ toxicity - repeated exposure (STOT-RE):	NOAEL	10	mg/l	Rat	OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Developmental Tox. Screening Test)	Vapours
Symptoms:						mucous membrane irritation
Symptoms:						drowsiness, dizziness, nausea, abdominal pain, breathing difficulties, visual disturbances
Symptoms:						mucous membrane irritation

**Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diyldis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediyldis-Toxicity / effect Endpoi Value Unit Organism Test method Notes nt**

Acute toxicity, by oral route:	LD50	> 2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	> 2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	> 5,11	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:					OECD 404 (Acute Dermal Irritation/Corrosion)	Mild irritant
Serious eye damage/irritation:					OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant

Respiratory or skin sensitisation:					OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizing
Reproductive toxicity:	NOAEL	1000	mg/kg bw/d	Rat	OECD 421 (Reproduction/Developmental Toxicity Screening Test)	

**Methanol**

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD0	143	mg/kg	Human being		
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	IUCLID Chem. Data Sheet (ESIS)	Not relevant for classification.
Acute toxicity, by oral route:	ATE	300	mg/kg	Human being		Experiences on persons.
Acute toxicity, by dermal route:	LD50	17100	mg/kg	Rabbit		Does not conform with EU classification.
Acute toxicity, by inhalation:	LC50	85	mg/l/4h	Rat		Not relevant for classification.
Skin corrosion/irritation:				Rabbit		Mild irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Mild irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative
Symptoms:						abdominal pain, vomiting, headaches, gastrointestinal disturbances, drowsiness, visual disturbances, watering eyes, nausea, mental confusion

**Calcium carbonate**

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 420 (Acute Oral toxicity - Fixed Dose Procedure)	
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Acute toxicity, by inhalation:	LC50	>3	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Mouse	OECD 429 (Skin Sensitisation - Local Lymph Node Assay)	Not sensitizing
Germ cell mutagenicity:					OECD 471 (Bacterial Reverse Mutation Test)	Negative

Germ cell mutagenicity:						OECD 476 (In Vitro Mammalian Cell Gene Mutation Test)	Negative
Germ cell mutagenicity:						OECD 473 (In Vitro Mammalian Chromosome Aberration Test)	Negative
Carcinogenicity:							No indications of such an effect.
Reproductive toxicity:	NOEL	1000	mg/kg bw/d	Rat		OECD 422 (Combined Repeated Dose Tox. Study with the Reproduction/Development. Tox. Screening Test)	
Specific target organ toxicity - single exposure (STOT-SE):							No indications of such an effect.
Specific target organ toxicity - repeated exposure (STOT-RE):							No indications of such an effect.
Aspiration hazard:							No
Symptoms:							blood in urine (haematuria), nausea and vomiting.

## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

### Adiseal Adhesive & Sealant Colours

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:							n.d.a.
Toxicity to daphnia:							n.d.a.
Toxicity to algae:							n.d.a.
Persistence and degradability:							n.d.a.
Bioaccumulative potential:							n.d.a.
Mobility in soil:							n.d.a.
Results of PBT and vPvB assessment							n.d.a.
Other adverse effects:							n.d.a.

trimethoxyvinylsilane							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>=100	mg/l	Brachydanio rerio		
Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss		
Toxicity to fish:	LC50	96h	191	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	168,7	mg/l	Daphnia magna	Regulation (EC) 440/2008 C.2 (DAPHNIA SP. ACUTE IMMOBILISATION TEST)	
Toxicity to algae:	EC50	72h	>957	mg/l	Scenedesmus subspicatus		

Toxicity to algae:	IC50	72h	>100	mg/l	Selenastrum capricornutum		
Toxicity to algae:	NOEC/NOEL	72h	>957	mg/l	Scenedesmus subspicatus		88/302/EC
Persistence and degradability:		28d	51	%		OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	
Persistence and degradability:		28d				OECD 301 F (Ready Biodegradability - Manometric Respirometry Test)	Readily biodegradable
Bioaccumulative potential:			-2				product of hydrolysis @20°C
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50		>2500	mg/l	activated sludge		

**Reaction mass of Octadecanamide, 12-hydroxy-N-[2-[(1-oxodecyl)amino]ethyl]- and N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and Decanamide, N,N'-1,2-ethanediybis-**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	> 100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	
Toxicity to daphnia:	EC50	48h	94,9	mg/l	Daphnia magna STRAUS	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
Toxicity to algae:	EC50	72h	43,2	mg/l	Pseudokirchneriella subcapitata	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:		28d	14	%		OECD 301 D (Ready Biodegradability - Closed Bottle Test)	
Toxicity to bacteria:	EC50	3h	> 1000	mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Water solubility:			< 10	mg/l		OECD 105 (Water Solubility)	

<b>Methanol</b>							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	15400	mg/l	Lepomis macrochirus		
Toxicity to daphnia:	EC50	48h	>10000	mg/l	Daphnia magna		
Toxicity to algae:	IC50	72h	8000	mg/l			

Persistence and degradability:	BOD5/CO D		<50	%			
Bio accumulative potential:	BCF		28400		Chlorella vulgaris		
Other information:	BOD		>60	%			Readily biodegradable
Other information:	DOC		<70	%			

**Calcium carbonate**

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
Toxicity to fish:	LC50	96h	>100	mg/l	Oncorhynchus mykiss	OECD 203 (Fish, Acute Toxicity Test)	v/v saturated solution of test material
Toxicity to daphnia:	LC50	48h	>1	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	v/v saturated solution of test material
Toxicity to algae:	EC50	72h	>14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Toxicity to algae:	NOEC/NO EL	72h	14	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
Persistence and degradability:							Not relevant for inorganic substances.
Bio accumulative potential:							No
Mobility in soil:							n.a.
Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Toxicity to bacteria:	NOEC/NO EL	3h	1000	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	
Other organisms:	NOEC/NO EL	14d	1000	mg/kg dw	Eisenia foetida	OECD 207 (Earthworm, Acute Toxicity Tests)	
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Glycine max
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Avena sativa
Other organisms:	NOEC/NO EL	21d	1000	mg/kg dw		OECD 208 (Terrestrial Plants, Growth Test)	Lycopersicon esculentum

Other organisms:	NOEC/NO EL	28d	1000	mg/kg dw		OECD 216 (Soil Microorganisms - Nitrogen Transformation Test)	
Water solubility:			0,0166	g/l		OECD 105 (Water Solubility)	20°C

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

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

09 Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations. E.g. suitable incineration plant.

Hardened product:

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

15 01 01 paper and cardboard packaging

15 01 02 plastic packaging

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

UN number: n.a.

#### Transport by road/by rail (ADR/RID)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Classification code: n.a.

LQ (ADR 2015): n.a.

Environmental hazards: Not applicable

Tunnel restriction code:

#### Transport by sea (IMDG-code)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Marine Pollutant: n.a.

Environmental hazards: Not applicable

#### Transport by air (IATA)

UN proper shipping name:

Transport hazard class(es): n.a.

Packing group: n.a.

Environmental hazards: Not applicable

#### Special precautions for user

Unless specified otherwise, general measures for safe transport must be followed.

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Adiseal Adhesive & Sealant Colours

## Transport in bulk according to Annex II of MARPOL and the IBC Code

Non-dangerous material according to Transport Regulations.

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For classification and labelling see Section

2. Observe restrictions:

General hygiene measures for the handling of chemicals are applicable.

Directive 2010/75/EU (VOC): < 1,24 %

### 15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

## SECTION 16: Other information

Revised sections: n.a.

### Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Not applicable

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H412 Harmful to aquatic life with long lasting effects.

Flam. Liq. — Flammable liquid

Acute Tox. — Acute toxicity - inhalation

Aquatic Chronic — Hazardous to the aquatic environment - chronic

### Any abbreviations and acronyms used in this document:

AC Article Categories

acc., acc. to according, according to

ACGIH American Conference of Governmental Industrial Hygienists

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOEL Acceptable Operator Exposure Level

AOX Absorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ATE Acute Toxicity Estimate according to Regulation (EC) 1272/2008 (CLP)

BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)

BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)

BCF Bioconcentration factor

BGV Berufsgenossenschaftliche Vorschrift (= Accident Prevention Regulation)

BHT Butylhydroxytoluol (= 2,6-Di-*t*-butyl-4-methyl-phenol)

BMGV Biological monitoring guidance value (EH40, UK)

BOD Biochemical oxygen demand

BSEF Bromine Science and Environmental Forum

bw body weight

CAS Chemical Abstracts Service

CEC Coordinating European Council for the Development of Performance Tests for Fuels, Lubricants and Other Fluids

CESIO Comité Européen des Agents de Surface et de leurs Intermédiaires Organiques

CIPAC Collaborative International Pesticides Analytical Council

CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)

CMR carcinogenic, mutagenic, reproductive toxic

COD Chemical oxygen demand

CTFA Cosmetic, Toiletry, and Fragrance Association

DMEL Derived Minimum Effect Level

DNEL Derived No Effect Level

DOC Dissolved organic carbon

DT50 Dwell Time - 50% reduction of start concentration

DVS Deutscher Verband für Schweißen und verwandte Verfahren e.V. (= German Association for Welding and Allied Processes)

dw dry weight

e.g. for example (abbreviation of Latin 'exempli gratia'), for instance

EC European Community

ECHA European Chemicals Agency

EEA European Economic Area

EEC European Economic Community

EINECS European Inventory of Existing Commercial Chemical Substances

ELINCS European List of Notified Chemical Substances

EN European Norms

EPA United States Environmental Protection Agency (United States of America)

ERC Environmental Release Categories

ES Exposure scenario

etc. et cetera

EU European Union

EWC European Waste Catalogue

Fax. Fax number

gen. general

GHS Globally Harmonized System of Classification and Labelling of Chemicals

GWP Global warming potential

HET-CAM Hen's Egg Test - Chorionallantoic Membrane

HGWP Halocarbon Global Warming Potential

IARC International Agency for Research on Cancer

IATA International Air Transport Association

IBC Intermediate Bulk Container

IBC (Code) International Bulk Chemical (Code)

IC Inhibitory concentration

IMDG-code International Maritime Code for Dangerous Goods

incl. including, inclusive

IUCLID International Uniform Chemical Information Database

LC lethal concentration

LC50 lethal concentration 50 percent kill

LCLo lowest published lethal concentration

LD Lethal Dose of a chemical

LD50 Lethal Dose, 50% kill

LDLo Lethal Dose Low

LOAEL Lowest Observed Adverse Effect Level

LOEC Lowest Observed Effect Concentration

LOEL Lowest Observed Effect Level

LQ Limited Quantities

MARPOL International Convention for the Prevention of Marine Pollution from Ships

n.a. not applicable

n.av. not available

n.c. not checked

n.d.a. no data available

NIOSH National Institute of Occupational Safety and Health (United States of America)

NOAEC No Observed Adverse Effective Concentration

NOAEL No Observed Adverse Effect Level

NOEC No Observed Effect Concentration

NOEL No Observed Effect Level

ODP Ozone Depletion Potential

OECD Organisation for Economic Co-operation and Development

org. organic



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Adiseal Adhesive & Sealant Colours

PAH polycyclic aromatic hydrocarbon

PBT persistent, bio accumulative and toxic

PC Chemical product category

PE Polyethylene

PNEC Predicted No Effect Concentration

POCP Photochemical ozone creation potential

ppm parts per million

PROC Process category

PTFE Polytetrafluorethylene

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)

REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.

RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)

SADT Self-Accelerating Decomposition Temperature

SAR Structure Activity Relationship

SU Sector of use

SVHC Substances of Very High Concern

Tel. Telephone

ThOD Theoretical oxygen demand

TOC Total organic carbon

TRGS Technische Regeln für Gefahrstoffe (=Technical Regulations for Hazardous Substances)

UN RTDG United Nations Recommendations on the Transport of Dangerous Goods

VbF Verordnung über brennbare Flüssigkeiten (= Regulation for flammable liquids (Austria))

VOC Volatile organic compounds

vPvB very persistent and very bioaccumulative

WEL-TWA, WEL-STEL WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period), WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period) (EH40, UK).

WHO World Health Organization

wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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