

According to directive 1907/2006/EC, 2020/878  
Version 9.0 Revision date: 04-08-2024  
Trade name: Silicone SILASTIC™ 3481

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

### **1.1 Product identification:**

Product name: Silicone SILASTIC™ 3481

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

Usage: Polymer.

Uses advised against: None known.

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

Responsible distributor : ASSYST bvba / A.S.O.W. bvba  
Hellegatstraat 13a  
2590 Berlaar  
Belgium  
Tel: +32 495 50 61 14 / +32 496 83 70 27  
Website: [www.assyst.org](http://www.assyst.org) / [www.artsuppliesonweb.com](http://www.artsuppliesonweb.com)  
Email: [ao@assyst.org](mailto:ao@assyst.org) / [vera.opsommer@assyst.org](mailto:vera.opsommer@assyst.org)

### **1.4 Emergency phone number:**

For Belgium:

Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.

NHS 24 Direct

For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

## **SECTION 2: Hazard identification**

### **2.1 Classification of the substance or mixture:**

**Classification according to directive (EC) No 1272/2008 and its amendments.**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### **2.2 Labelling elements:**

**Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### **Additional labelling information**

EUH210: Safety data sheet available on request.

### **2.3 Other hazards:**

This product contains octamethylcyclotetrasiloxane [D4] identified by the ECHA Member State Committee as complying with the PBT and vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006.

See section 12 for additional information.

This product contains dodecamethylcyclohexasiloxane [D6] identified by the ECHA Member State Committee as meeting the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006.

See section 12 for additional information.

This product contains decamethylcyclopentasiloxane [D5] identified by the ECHA Member State Committee as meeting the vPvB criteria laid down in Annex XIII to Regulation (EC) No 1907/2006.

See section 12 for additional information.

### **Endocrine-disrupting properties**

#### **Environment:**

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

#### **Human health:**

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The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

## SECTION 3: Composition and information on ingredients

### Chemical description:

Silicone elastomer

### 3.2 Mixture:

### General information:

This product is a blend.

CAS No. EC No. Index no.	REACH registration number	Concentration	Component	Classification : REGULATION (EC) No 1272/2008
CASRN 68909-20-6 EC No. 272-697-1 Index no. 014-052-00-7	-	>= 19,0 - <= 29,0 %	silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-,hydrolysis products with silica	STOT RE 2; H373 (Lungs) EUH066  Acute toxicity estimates Acute oral toxicity: > 2 000 mg/kg Acute dermal toxicity: > 2 000 mg/kg
CAS NR. 556-67-2 EC No. 209-136-7 Index no. 014-018-00-1	-	>= 0,11 - <= 0,16 %	Octamethylcyclotetrasiloxane [D4]	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 1; H410  M-factor (Chronic aquatic toxicity): 10  Acute toxicity estimates Acute oral toxicity: > 4 800 mg/kg Acute toxicity by inhalation: 36 mg/l, 4 h, dust/mist Acute dermal toxicity: > 2 400 mg/kg
<b>zPvB dust</b>				
CAS NR. 540-97-6 EC No. 208-762-8 Index no. -	-	>= 0,18 - <= 0,22 %	Dodecamethylcyclohexasiloxane	Unclassified  Acute toxicity estimates Acute oral toxicity: > 2 000 mg/kg Acute dermal toxicity: > 2 000 mg/kg
CAS NR. 541-02-6 EC No. 208-764-9 Index no. -	-	>= 0,11 - <= 0,16 %	Decamethylcyclopentasiloxane	Not classified  Acute toxicity estimates Acute oral toxicity: > 24 134 mg/kg Acute toxicity by inhalation: 8.67 mg/l, 4 h, dust/mist Acute dermal toxicity: > 2 000 mg/kg
<b>Substances with workplace exposure limits</b>				
CAS NR. 14940-68-2 EC No. 239-019-6 Index no. -	-	>= 9,0 - <= 13,0 %	Zirconium	Unclassified

For the full text of H phrases referred to in this section, see section 16.

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## **SECTION 4: First aid measures**

### **4.1 Description of first-aid measures:**

#### **General information:**

If there is an exposure risk, refer to section 8 for specific personal protective equipment.

#### **Inhalation:**

Get the person into fresh air and let them breathe comfortably; consult a doctor.

#### **Skin touch:**

Wash up with plenty of water.

#### **Eye contact:**

Rinse eyes thoroughly with water for several minutes.

Remove contact lenses after the first 1-2 minutes and continue rinsing for several minutes.

Consult a doctor if side effects occur, preferably an ophthalmologist.

#### **Ingestion:**

Rinse mouth with water.

No urgent medical treatment needed.

### **4.2 Main acute and delayed symptoms and effects:**

In addition to the information under "Description of first aid measures" (above) and "Indication of necessary urgent medical attention and special treatments" (below), all additional important symptoms and effects are described in Section 11: Toxicological information.

### **4.3 Indication of immediate medical attention and special treatment required:**

#### **Notes for the doctor:**

No specific antidote.

Treatment of exposure should take into account the patient's symptoms and clinical condition.

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media:**

#### **Suitable extinguishing agents:**

Water jet.

Alcohol-resistant foam.

Carbon dioxide (CO<sub>2</sub>).

Drying powder.

#### **Unsuitable extinguishing media:**

Not known.

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

#### **Hazardous combustion products:**

Carbon oxides. Silicon oxide.

#### **Unusual fire and explosion hazards:**

Exposure to combination products can be hazardous to health.

### **5.3 Advice for firefighters:**

#### **Fire-fighting measures:**

Use water spray to cool unopened containers.

Evacuate.

Collect contaminated firefighting water separately.

It should not drain to the sewerage system.

Combustion residues and contaminated fire fighting water must be disposed of according to local regulations.

Use extinguishing agents suitable for the local conditions and environment.

Remove undamaged holder from fire area if it is safe to do so.

#### **Special protective equipment for firefighters:**

In case of fire, wear a compressed air mask.

Use personal protective equipment.

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## **SECTION 6: Measures in case of accidental release of the substance or mixture**

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

Use personal protective equipment.

Follow the advice on working safely with the substance and recommendations on personal protective equipment.

### **6.2 Environmental precautions:**

Discharge into the environment should be avoided.

Avoid further leaks and spills if it is safe to do so.

Prevent spreading over a large area (e.g. by containment or oil baffles).

Collect and remove contaminated cleaning water

In case of significant leaks that cannot be contained, the local government should be notified.

### **6.3 Methods and materials for containment and cleaning:**

Absorb in inert absorbent material.

Wipe with absorbent material or pick it up and dispose of in a lidded bin.

Local or national regulations may apply both to leaks or disposal of the material, and to the materials used in cleaning operations.

You must determine which regulations apply.

To prevent material from spreading, appropriate barricades or other suitable containment should be used for large spills.

If material can be pumped out, the collected material should be stored in appropriate containers.

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

See sections: 7, 8, 11, 12 and 13.

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

### **7.1 Precautions for safe handling of the substance or mixture:**

Avoid inhalation of vapour or mist.

Avoid contact with eyes.

Do not swallow.

Avoid persistent or repeated contact with skin.

Prevent leaks and spread into the environment and minimise the amount released.

Use according to common rules and practices related to industrial hygiene and safety.

EMPTY DRUMS CAN BE DANGEROUS.

Empty drums contain product residues.

Follow all product safety and label regulations, even if the vessel is empty.

Use only with adequate ventilation.

See Technical measures under section MEASURES TO CONTROL EXPOSURE/PERSONAL PROTECTION.

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

Store in correctly labelled containers.

Keep behind lock.

Store according to relevant national regulations.

**Do not store with the following product types:**

Strong oxidising agents.

**Unsuitable materials for containers:**

Nothing known.

### **7.3 Specific end use:**

Refer to the technical data sheet of this product for more information.

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

### **8.1 Control parameters:**

#### **Occupational exposure limits**

If exposure limits exist, they are listed below.

If no exposure limits are displayed, no values apply.

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Component	Regulation	Type of statement	Value
Octamethylcyclotetrasiloxane [D4]	US WEEL	TWA	10 ppm
Decamethylcyclopentasiloxane	US WEEL	TWA	10 ppm
Zirconium	ACGIH	TWA	5 mg/m <sup>3</sup> , Zirconium
	Further information: A4: Not classifiable as a human carcinogen		
	ACGIH	STEL	10 mg/m <sup>3</sup> , Zirconium
	Further information: A4: Not classifiable as a human carcinogen		
	BE OEL	TGG 8 hr	5 mg/m <sup>3</sup> , Zirconium
	BE OEL	TGG 15 min	10 mg/m <sup>3</sup> , Zirconium

Although some components in this product may have exposure limits, due to the aggregation state of the product, no exposure is expected under normal handling conditions.

### Recommended observation procedures

Monitoring the concentration of substances in the breathing zone of workers or in the general work area may be necessary to confirm compliance with occupational exposure limits and adequacy of exposure.

For some substances, biological monitoring may also be appropriate.

Validated exposure measurement methods should be applied by a competent person and samples should be analysed by an accredited laboratory.

Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Occupational exposure - Measurement of inhalation exposure to chemicals - Strategy to comply with occupational exposure limits).

European Standard EN 14042 (Workplace atmospheres - Directive on the application and use of procedures for the assessment of exposure to chemical and biological agents).

European Standard EN 482 (Workplace atmospheres - General requirements for the implementation of procedures for measuring chemical substances).

Reference to national guidelines on methods for the determination of hazardous substances is also required. Examples of sources of recommended exposure measurement methods are given below or contact the supplier.

Further national methods may be available.

- ✓ National Institute of Occupational Safety and Health (NIOSH), USA: Manual of Analytical Methods.
- ✓ Occupational Safety and Health Administration (OSHA), USA: sampling and analytical methods.
- ✓ Health and Safety Executive (HSE), UK: methods for determining hazardous substances.
- ✓ Institut für Arbeitsschutz Deutsche Gesetzlichen Unfallversicherung (IFA), Germany.
- ✓ L'Institut National de Recherche et de Sécurité, (INRS), France.

### Derived doses without effect

Octamethylcyclotetrasiloxane [D4]

#### Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	73 mg/m <sup>3</sup>	n.a.	73 mg/m <sup>3</sup>

#### Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	13 mg/m <sup>3</sup>	3.7 mg/kg bw/day	n.a.	13 mg/m <sup>3</sup>

Dodecamethylcyclohexasiloxane

#### Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	6.1 mg/m <sup>3</sup>	n.a.	n.a.	n.a.	1.22 mg/m <sup>3</sup>

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## Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	1.5 mg/m <sup>3</sup>	n.a.	n.a.	n.a.	n.a.	0.3 mg/m <sup>3</sup>

Decamethylcyclopentasiloxane

## Employees

Acute - systemic effects		Acute - local effects		Long-term - systemic effects		Long-term - local effects	
Skin	Inhalation	Skin	Inhalation	Skin	Inhalation	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	97.3 mg/m <sup>3</sup>	n.a.	24.2 mg/m <sup>3</sup>

## Consumers

Acute - systemic effects			Acute - local effects		Long-term - systemic effects			Long-term - local effects	
Skin	Inhalation	Oral	Skin	Inhalation	Skin	Inhalation	Oral	Skin	Inhalation
n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	17.3 mg/m <sup>3</sup>	5 mg/kg bw/day	n.a.	4.3 mg/m <sup>3</sup>

## Predicted concentration without effect

Octamethylcyclotetrasiloxane [D4]

Compartment	PNEC
Freshwater	0.0015 mg/l
Seawater	0.00015 mg/l
Sewage treatment plant	10 mg/l
Freshwater deposits	3 mg/kg dry weight (d.g.)
Sea deposits	0.3 mg/kg dry weight (d.g.)
Bottom	0.54 mg/kg dry weight (d.g.)
Oral	41 mg/kg food

Dodecamethylcyclohexasiloxane

Compartment	PNEC
Freshwater deposition	13.5 mg/kg dry weight (d.g.)
Sea deposits	1.35 mg/kg dry weight (d.g.)
Oral	66.7 mg/kg food

Decamethylcyclopentasiloxane

Compartment	PNEC
Freshwater	> 0.0012 mg/l
Seawater	> 0.00012 mg/l
Freshwater deposition	11 mg/kg
Sea deposits	1.1 mg/kg
Bottom	2.54 mg/kg
Sewage treatment plant	10 mg/l
Oral	16 mg/kg food

## 8.2 Exposure control measures:

### Appropriate Technical Measures:

Provide local exhaust ventilation, or other technical measures to keep atmospheric concentrations below limit values.

If no limits exist, general ventilation should be sufficient for most operations.

Local extraction may be necessary for some work.

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

#### Eye/face protection:

Use safety glasses with side shields.

Safety glasses with side shields must comply with standard EN 166 or a similar standard.

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## Skin protection

### Hand protection:

Use non-permeable gloves for this substance if persistent or regularly repeated contact may occur.  
Use chemical-resistant gloves, classified under EN374: gloves for protection against chemicals and micro-organisms.

Examples of barrier glove materials to be preferred:

- ✓ Butyl rubber Neoprene.
- ✓ Nitrile/butadiene rubber ("nitrile" or "NBR").
- ✓ Ethyl vinyl alcohol laminate ("EVAL").
- ✓ Polyvinyl alcohol ("PVA").
- ✓ Polyvinyl chloride ("PVC" or "vinyl").
- ✓ Viton.

Examples of acceptable barrier glove materials include:

- ✓ Natural rubber (latex).

When prolonged or frequently repeated contact may occur, gloves with a protection class 3 or higher (breakthrough time greater than 60 minutes according to EN 374) are recommended.

Glove thickness alone is not a good indicator of the level of protection a glove gives against a chemical, as this level of protection is also highly dependent on the specific composition of the material the glove is made of. Depending on the material model and type, the thickness of the glove should generally be more than 0.35 mm. to provide sufficient protection in continuous and regular contact with the fabric.

As an exception to this general rule, multilayer laminate gloves are known to provide further protection at thicknesses below 0.35 mm.

Other glove materials with a thickness less than 0.35 mm. can provide sufficient protection when only brief contact is expected.

ATTENTION: The selection of specific gloves for a given application and time of use in a workplace should also take into account all other relevant factors at the workplace, such as (but not limited to): other chemicals that may be handled, physical requirements (protection against cutting/ piercing, dexterity, thermal protection), possible physical reactions to the glove material, and the instructions/specifications of the glove supplier.

### Other protection:

Wear clean body-covering clothes with long sleeves.

### Respiratory protection:

A respirator should be worn when there is a risk of exceeding exposure limits.

If no exposure limits or guidelines exist, use an approved respirator if adverse effects (such as respiratory irritation) or discomfort occur, or when indicated by your risk assessment process.

Respiratory protection should not be required for most conditions.

In case of discomfort use and approved air purifying device.

Use EC-approved respirator: Filter for organic vapours, type A (boiling point > 65°C, must comply with standard EN 14387).

### Managing environmental exposure

See SECTION 7: Handling and storage and SECTION 13: Instructions for disposal measures to prevent overexposure to the environment during use and waste disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties:

#### Prevent

Physical state:	viscous liquid.
Colour:	Off-white
Odour:	No
Odour threshold:	No data available
pH:	No data available

#### Melting/freezing point:

Melting point/range:	No data available
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Freezing point:	Not implemented
<b>Boiling point or initial boiling point and boiling range:</b>	
Boiling point (760 mmHg)	:> 35°C
Flash point:	closed cup >100.0°C
Flammability (solid, gas):	Not applicable
Flammability (liquids):	Not applicable
Lower explosion limit:	No data available
Upper explosion limit:	No data available
Vapour pressure:	No data available
Relative vapour density (air = 1):	No data available
Relative density (water = 1):	1.213
Solubility in water:	Not performed
Partition coefficient: n-octanol/water:	Not performed
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Kinematic viscosity:	No data available
<b>Particle characteristics:</b>	
Particle size:	Not applicable
<u>9.2 Other information</u>	
Molecular weight:	No data available
Dynamic viscosity:	34 000 mPa.s
Explosive properties:	Non-explosive
Oxidising properties:	The substance or mixture is not classified as oxidising.
Self-heating substances:	The substance or mixture is not classified as self-heating.
Corrosion rate of metal:	Not corrosive to metals
Evaporation rate (Butyl acetate = 1):	No data available
<b>NOTE</b> :The physical and chemical data shown in section 9 are typical values for this product and are not intended as product specifications.	

## **SECTION 10: Stability and reactivity**

### 10.1 Reactivity:

Not classified as hazardous due to reactivity.

### 10.2 Chemical Stability:

Stable under normal conditions.

### 10.3 Potential Hazardous Reactions:

May react with strongly oxidising substances.

### 10.4 Conditions to avoid:

Nothing known.

### 10.5 Chemically interacting Materials:

Avoid contact with oxidising substances.

### 10.6 Hazardous Decomposition Products:

Decomposition products may include - among others - the following: Formaldehyde.

## **SECTION 11: Toxicological information**

Toxicological information is displayed in this section when available.

### 11.1 Information on toxicological effects:

#### **Information on likely routes of exposure**

Inhalation, Eye contact, Skin contact, Ingestion.

**Acute toxicity (represents short-term exposures with immediate effects - no chronic/delayed effects known unless otherwise stated)**

**Endpoints acute toxicity:**

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## Acute oral toxicity

### Information for the product:

Very low toxicity if swallowed.

Swallowing small amounts is unlikely to cause harm.

As product. The oral LD50 of a single dose has not been determined.

Based on information for component(s): estimated

LD50, Rat, > 5 000 mg/kg

### Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this product group: LD50, Rat, > 2 000 mg/kg OECD 401 or equivalent No deaths were observed at this concentration.

octamethylcyclotetrasiloxane [D4]

LD50, Rat, male, > 4 800 mg/kg

No deaths were observed at this concentration.

Dodecamethylcyclohexasiloxane

LD50, Rat, male and female, > 2 000 mg/kg

No deaths were observed at this concentration.

Decamethylcyclopentasiloxane

LD50, Rat, male and female, > 24 134 mg/kg

Zirconium

The oral LD50 of a single dose has not been determined.

## Acute dermal toxicity

### Information for the product:

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product. The dermal LD50 has not been determined.

Based on information for component(s): estimated

LD50, > 2 000 mg/kg

### Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

The dermal LD50 has not been determined.

For similar substance(s) LD50, Rabbit, > 2 000 mg/kg No deaths were observed at this concentration.

octamethylcyclotetrasiloxane [D4]

LD50, Rat, male and female, > 2 400 mg/kg

No deaths were observed at this concentration.

Dodecamethylcyclohexasiloxane

LD50, Rabbit, male and female, > 2 000 mg/kg

Decamethylcyclopentasiloxane

LD50, Rabbit, male and female, > 2 000 mg/kg

No deaths were observed at this concentration.

Zirconium

The dermal LD50 has not been determined.

## Acute toxicity by inhalation

### Information for the product:

A single exposure to vapours is unlikely to produce adverse effects.

Overexposure may cause irritation of the upper respiratory organs (nose and throat).

### Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

The LC50 was not determined.

octamethylcyclotetrasiloxane [D4]

LC50, Rat, male and female, 4 h, dust/mist, 36 mg/l

Guideline test OECD 403

Dodecamethylcyclohexasiloxane

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The LC50 was not determined.

Decamethylcyclopentasiloxane

LC50, Rat, male and female, 4 h, dust/mist, 8.67 mg/l

Zirconium

The LC50 was not determined.

**Skin corrosion/irritation**

Information for the product:

Based on information for component(s):

Short-term contact with the skin is essentially non-irritant.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this group of products:

Short-term contact with the skin is essentially non-irritant.

octamethylcyclotetrasiloxane [D4]

Short-term contact with the skin is essentially non-irritant.

Dodecamethylcyclohexasiloxane

Essentially non-irritating to the skin.

Decamethylcyclopentasiloxane

Prolonged contact is essentially non-irritating to the skin.

Zirconium

Brief contact may cause skin irritation with local redness.

**Serious eye damage/eye irritation**

Information for the product:

Based on information for component(s):

May cause transient mild eye irritation.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this group of products:

May cause irritation or corneal damage due to mechanical action.

octamethylcyclotetrasiloxane [D4]

Essentially non-irritating to the eyes.

Dodecamethylcyclohexasiloxane

May cause transient mild eye irritation.

Corneal damage is unlikely.

Decamethylcyclopentasiloxane

Essentially non-irritating to the eyes.

Zirconium

May cause eye irritation.

**Sensitisation**

Information for the product:

In case of skin hypersensitivity:

Contains component(s) that do not cause allergic skin hypersensitivity in guinea pigs.

Respiratory sensitisation:

No relevant data found.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

In case of skin hypersensitivity:

Based on testing for product(s) in this group of products:

Did not cause allergic skin reactions when tested with guinea pigs.

Respiratory sensitisation:

No relevant data found.

octamethylcyclotetrasiloxane [D4]

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Did not cause allergic skin reactions when tested with guinea pigs.

Respiratory sensitisation:

No relevant data found.

Dodecamethylcyclohexasiloxane

Did not cause allergic skin reactions when tested with guinea pigs.

Respiratory sensitisation:

No relevant data found.

Decamethylcyclopentasiloxane

No potential for contact allergy in mice was demonstrated.

Respiratory sensitisation:

No relevant data found.

Zirconium

In case of skin hypersensitivity:

No data available

Respiratory sensitisation:

No data available

#### **Specific target organ system toxicity (single exposure)**

Information for the product:

Product test dates not available.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Evaluation of available data suggests that this material is not an STOT-SE toxin.

octamethylcyclotetrasiloxane [D4]

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Dodecamethylcyclohexasiloxane

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Decamethylcyclopentasiloxane

Evaluation of available data suggests that this material is not an STOT-SE toxin.

Zirconium

Available data are insufficient to determine an exposure-specific target organ toxicity.

#### **Inhalation hazard**

Information for the product:

Based on the physical properties, inhalation hazards are unlikely to exist.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on the physical properties, inhalation hazards are unlikely to exist.

octamethylcyclotetrasiloxane [D4]

May be harmful if swallowed and enters airways.

Dodecamethylcyclohexasiloxane

Based on the physical properties, inhalation hazards are unlikely to exist.

Decamethylcyclopentasiloxane

Based on the physical properties, inhalation hazards are unlikely to exist.

Zirconium

Based on the physical properties, inhalation hazards are unlikely to exist.

#### **Chronic toxicity (represents long-term repeated dose exposure resulting in chronic/delayed effects - no immediate effects known unless otherwise stated)**

#### **Specific target organ system toxicity (repeated exposure)**

Information for the product:

Product test dates not available.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

In animals, effects to the following organs have been observed:

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Long

octamethylcyclotetrasiloxane [D4]

In animals, effects to the following organs have been observed:

Kidney.

Liver.

Airways.

Female reproductive organs.

Dodecamethylcyclohexasiloxane

Based on available data, repeated exposures are not expected to cause significant adverse effects.

Decamethylcyclopentasiloxane

Based on available data, repeated exposures are not expected to cause significant adverse effects.

Zirconium

No relevant data found.

## **Carcinogenicity**

Information for the product:

Product test dates not available.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

No relevant data found.

octamethylcyclotetrasiloxane [D4]

Results of an inhalation vapour exposure study repeated in octamethyl rats after two years.

Dodecamethylcyclohexasiloxane

No relevant data found.

Decamethylcyclopentasiloxane

Results of a vapour inhalation exposure study repeated after two years in rats regarding decamethylcyclopentasiloxane (D5) indicated effects (uterine endometrial tumours) in female rats.

This finding occurred only at the highest exposure dose (160 ppm).

Research to date has not shown, whether the effect occurs through a pathway, which is relevant to humans.

Zirconium

No data available.

## **Teratogenicity**

Information for the product:

Product test dates not available.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this group of products: Did not cause birth defects or other foetal effects in laboratory animals.

octamethylcyclotetrasiloxane [D4]

Did not cause birth defects or other foetal effects in laboratory animals.

Dodecamethylcyclohexasiloxane

No relevant data found.

Decamethylcyclopentasiloxane

Did not cause birth defects or other foetal effects in laboratory animals.

Zirconium

No data available.

## **Reproductive toxicity**

Information for the product:

Product test dates not available.

Information for components:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this group of products: In animal studies, the product had no effects on reproduction.

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#### octamethylcyclotetrasiloxane [D4]

In animal studies, effects on reproduction were observed only at doses that caused significant toxicity in the parents.

In studies on animals, the product was shown to impair fertility.

#### Dodecamethylcyclohexasiloxane

In animal studies, the product had no effects on reproduction.

#### Decamethylcyclopentasiloxane

In animal studies, the product had no effects on reproduction.

#### Zirconium

No data available.

### **Mutagenicity**

#### Information for the product:

Product test dates not available.

#### Information for components:

#### silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Based on testing for product(s) in this group of products: Results of genetic toxicity studies in vitro were negative.

#### octamethylcyclotetrasiloxane [D4]

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

#### Dodecamethylcyclohexasiloxane

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

#### Decamethylcyclopentasiloxane

Results of genetic toxicity studies in vitro were negative.

Genetic toxicity studies on animals were negative.

#### Zirconium

No data available.

### 11.2 Information on other hazards

#### **Endocrine-disrupting properties**

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

#### Information for components:

#### silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### octamethylcyclotetrasiloxane [D4]

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### Dodecamethylcyclohexasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### Decamethylcyclopentasiloxane

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### Zirconium

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

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## **SECTION 12: Ecological information**

Ecotoxicological information appears in this section when these data are available.

### **12.1 Toxicity:**

#### **Acute toxicity:**

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

#### **Acute toxicity to fish**

Material is not classified as hazardous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 are greater than 100 mg/L for the most sensitive species).

Based on testing for product(s) in this group of products:

LC50, Danio rerio (zebrafish), 96 h, > 1 000 mg/l, Guideline test OECD 203

#### **Acute toxicity to aquatic invertebrates**

Based on testing for product(s) in this group of products:

EC50, Daphnia magna (large water flea), 48 h, > 100 mg/l, OECD Test Guideline 202

#### **Acute toxicity to algae/ aquatic plants**

ErC50, Scenedesmus quadricauda (green algae), 72 h, > 10 000 mg/l, OECD test guideline 201

#### **Toxicity to bacteria**

Based on testing for product(s) in this group of products:

EC50, activated sludge, 3 h, Respiratory rate, > 1 000 mg/l, OECD test guideline 209

octamethylcyclotetrasiloxane [D4]

#### **Acute toxicity to fish**

Based on testing with similar products: the estimated maximum aqueous concentration of octamethylcyclotetrasiloxane [D4].

From migration to water, from the product as supplied, is below the no-effect threshold set by D4 (<0.0079 mg/l) for aquatic organisms .

#### **Chronic toxicity to aquatic invertebrates**

Based on testing for product(s) in this group of products:

Not classified due to data that does seem convincing but insufficient for classification.

Dodecamethyl cyclohexasiloxane

#### **Acute toxicity to algae/ aquatic plants**

It is not expected to be acutely toxic to aquatic organisms.

No toxicity at solubility limit.

ErC50, Pseudokirchneriella subcapitata (green algae), 72 h, > 0.002 mg/l

Decamethylcyclopentasiloxane

#### **Acute toxicity to fish**

It is not expected to be acutely toxic to aquatic organisms.

No toxicity at solubility limit.

LC50, Oncorhynchus mykiss (rainbow trout), 96 h, > 16 µg/l, OECD Guideline 204 or Equivalent

#### **Acute toxicity to aquatic invertebrates**

No toxicity at solubility limit.

EC50, Daphnia magna, 48 h, > 2.9 mg/l, OECD Guideline 202 or Equivalent

#### **Acute toxicity to algae/ aquatic plants**

No toxicity at solubility limit.

ErC50, Pseudokirchneriella subcapitata (green algae), 96 h, Growth rate, > 0.012 mg/l

No toxicity at solubility limit.

NOEC, Pseudokirchneriella subcapitata (green algae), 96 h, Growth rate, 0.012 mg/l

#### **Chronic toxicity for fish**

No toxicity at solubility limit.

LC50, Oncorhynchus mykiss (rainbow trout), 14 d, > 16 mg/l

No toxicity at solubility limit.

NOEC, Oncorhynchus mykiss (rainbow trout), 45 d, >= 0.017 mg/l

No toxicity at solubility limit.

NOEC, Oncorhynchus mykiss (rainbow trout), 90 d, >= 0.014 mg/l

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## Chronic toxicity to aquatic invertebrates

NOEC, Daphnia magna, 21 d, 0.015 mg/l

## Toxicity to soil-dwelling organisms

The product has no known adverse effect on soil-dwelling organisms, as far as they have been investigated.

NOEC, Eisenia fetida (earthworms), >= 76 mg/kg

## Zirconium

### Acute toxicity to fish

It is not expected to be acutely toxic to aquatic organisms.

### Acute toxicity to aquatic invertebrates

Based on data from similar materials

EC50, Daphnia magna (large water flea), 48 h, > 100 mg/l

### Acute toxicity to algae/ aquatic plants

Based on data from similar materials

NOEC, Chlorella vulgaris (freshwater algae), 15 d, > 200 mg/l

## 12.2 Persistence and Degradability:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

### Biodegradability:

Biodegradation is not applicable.

### octamethylcyclotetrasiloxane [D4]

### Biodegradability:

The material is expected to be very slowly degradable in the environment.

Does not pass OECD / EEC tests for biodegradability.

Time interval per 10 days: Not applicable

**Biodegradation:** 3.7%

**Exposure time:** 28 d

**Method:** Guideline test OECD 310

### Stability in water (half-life)

Hydrolysis, DT50, 3.9 d, pH 7, Half-life temperature 25 °C, OECD test guideline 111

### Dodecamethylcyclohexasiloxane

### Biodegradability:

Based on the strict testing guidelines, this material cannot be considered directly biodegradable; however, these results do not necessarily imply that the material is not biodegradable under environmental conditions.

Time interval per 10 days : unsuccessful

**Biodegradation:** 4.5%

**Exposure time:** 28 d

**Method:** OECD 301 B test guideline

### Decamethylcyclopentasiloxane

### Biodegradability:

The material is expected to be very slowly degradable in the environment.

Does not pass OECD / EEC tests for biodegradability.

Time interval per 10 days: Not applicable

**Biodegradation:** 0.14

**Exposure time:** 28 d

**Method:** Guideline test OECD 310

## Zirconium

### Biodegradability:

Biodegradation is not applicable.

## 12.3 Bioaccumulation:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

### Bioaccumulation:

No relevant data found.

octamethylcyclotetrasiloxane [D4]

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## **Bioaccumulation:**

The bioconcentration potential is high (BCF is greater than 3000 or log Pow is between 5 and 7).

**Partition coefficient:** n-octanol/water(log Pow): 6,49 Measured

**Bioconcentration factor (BCF):** 12 400 Pimephales promelas (American fathead) Measured

Dodecamethylcyclohexasiloxane

## **Bioaccumulation:**

The bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

**Partition coefficient:** n-octanol/water (log Pow): 8,87

Decamethylcyclopentasiloxane

## **Bioaccumulation:**

Bioconcentration potential is moderate (BCF between 100 and 3000 or log Pow between 3 and 5).

**Partition coefficient:** n-octanol/water(log Pow): 5,2 Measured

**Bioconcentration factor (BCF):** 2 010 Fish estimated

Zirconium

## **Bioaccumulation:**

Separation of water to n-octanol is not applicable.

### 12.4 Mobility in soil:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

No relevant data found.

octamethylcyclotetrasiloxane [D4]

Partition coefficient (Koc): 16596 Directive test OECD 106

Decamethylcyclopentasiloxane

Partition coefficient (Koc): > 5000 estimated

Zirconium

No relevant data found.

### 12.5 Results of PBT and vPvB assessment:

silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica

Substance is not persistent, bioaccumulative and toxic (PBT). Substance is not very persistent and very bioaccumulative (vPvB).

octamethylcyclotetrasiloxane [D4]

Octamethylcyclotetrasiloxane [D4] meets the current criteria for PBT and vPvB under REACH Annex XIII, or other regionally specific criteria.

However, D4 does not behave in the same way as known PBT/vPvB substances.

The weight of scientific evidence from field studies shows that D4 is not bio-enhanced in aquatic and terrestrial food webs.

D4 in air is degraded by reaction with naturally occurring hydroxyl radicals in the atmosphere.

D4 in air that is not degraded by reaction with hydroxyl radicals is not expected to enter water, land or living organisms from the air.

Decamethylcyclopentasiloxane [D5] meets the current REACH Appendix XIII criteria for vPvB.

D5, however, does not behave similarly to known PBT/vPvB substances.

The weight of scientific evidence from field studies shows that D5 does not increase biologically in food webs in water or on land.

D5 in air will be degraded by a natural reaction with naturally occurring hydroxyl radicals in the atmosphere.

All the D5 in air that is not broken down by reaction with hydroxyl radicals is not expected to transfer from air to water, to land or to living organisms.

Based on an independent scientific group of experts, the Canadian Department of the Environment has concluded that "D5 does not enter the environment in a quantity or concentration or under conditions that have or are likely to have, either immediately or in the long term, a harmful effect on the environment or its biological diversity or that pose or are likely to pose a hazard to the environment on which life depends."

Dodecamethylcyclohexasiloxane

Dodecamethylcyclohexasiloxane [D6] meets the current REACH Appendix XIII criteria for vPvB.

D6, however, does not behave similarly to known PBT/vPvB substances.

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The weight of scientific evidence from field studies shows that D6 does not increase biologically in food webs in water or on land.

D6 in air will be degraded by a natural reaction with naturally occurring hydroxyl radicals in the atmosphere. All the D6 in air that is not broken down by reaction with hydroxyl radicals is not expected to transfer from air to water, to land or to living organisms.

#### Decamethylcyclopentasiloxane

Decamethylcyclopentasiloxane (D5) meets the current REACH Appendix XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 does not biologically increase in food webs in water or on land. D5 in air will be degraded by a natural reaction with naturally occurring hydroxyl radicals in the atmosphere. All D5 in air that is not degraded by reaction with hydroxyl radicals is not expected to transfer from air to water, to land or to living organisms. Based on an independent scientific group of experts, the Canadian Department of the Environment has concluded that "D5 does not enter the environment in a quantity or concentration or under conditions that have or are likely to have, either immediately or in the long term, a harmful effect on the environment or its biological diversity or that pose or are likely to pose a hazard to the environment on which life depends."

#### Zirconium

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

#### 12.6 Endocrine disrupting properties

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

#### **silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica**

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **octamethylcyclotetrasiloxane [D4]**

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **Dodecamethylcyclohexasiloxane**

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **Decamethylcyclopentasiloxane**

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### **Zirconium**

This substance is not considered to have endocrine-disrupting properties according to Article 57(f) of REACH, Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

#### 12.7 Other Harmful Effects:

#### **silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica**

This substance is not on the Montreal Protocol list of ozone-depleting substances.

#### **Dodecamethylcyclohexasiloxane**

This substance is not on the Montreal Protocol list of ozone-depleting substances.

#### **octamethylcyclotetrasiloxane [D4]**

This substance is not on the Montreal Protocol list of ozone-depleting substances.

#### **Decamethylcyclopentasiloxane**

This substance is not on the Montreal Protocol list of ozone-depleting substances.

#### **Zirconium**

This substance is not on the Montreal Protocol list of ozone-depleting substances.

### **SECTION 13: Disposal instructions**

#### **13.1 Waste treatment methods:**

Do not discharge into sewers, soil or surface water.

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This product, when disposed of in its unused and uncontaminated state, must be treated as hazardous waste according to EC Directive 2008/98/EC.

Disposal practices must comply with all national and provincial laws and any municipal or local bylaws on hazardous waste.

Additional evaluations may be required for used, contaminated and residual material.

The assignment of an appropriate EWC waste group as well as an EWC waste code specific to this product depends on the application for which this product has been used.

Consultation with waste management service.

## **SECTION 14: Information relating to transport**

### **14.1 UN number**

The transport of this substance is not subject to regulations.

### **14.2 Proper cargo name according to UN model regulations**

The transport of this substance is not subject to regulations.

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

The transport of this substance is not subject to regulations.

### **14.4 Packing group**

The transport of this substance is not subject to regulations.

### **14.5 Environmental hazards**

Not considered hazardous to the environment based on available data.

### **14.6 Special precautions for the user**

The transport of this substance is not subject to regulations.

### **14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code**

Consult IMO regulations before transporting ocean bulk.

This information is not intended to disclose all specific legislation, operational requirements/information about this product.

Additional information on transport can be obtained from a sales representative, or from customer service.

It is the responsibility of the transport company to comply with all legal provisions relating to the transport of goods.

## **SECTION 15: Statutory information**

### **15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:**

#### **REACH Regulation (EC) No 1907/2006**

This product contains only components that are either pre-registered, exempt from registration, or considered registered in accordance with Regulation (EC) No 1907/2006 (REACH).

The aforementioned indications of REACH registration status are provided to the best of our knowledge and are assumed to be accurate as of the date shown above.

However, express or implied warranties are given.

It is the responsibility of the buyer/user to ensure that his/her understanding of the regulatory status of this product is correct.

#### **REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):**

Restriction conditions for the following dates should be considered:

Number on the list 75

octamethylcyclotetrasiloxane [D4] (Number on the list 70 (2024))

Dodecamethylcyclohexasiloxane (Number on the list 70 (2024))

Decamethylcyclopentasiloxane (Number on the list 70 (2024))

#### **Authorisation status under REACH:**

The following substance(s) included in this product has/have/could have: an authorisation requirement in accordance with REACH:

CAS No: 556-67-2

Name: octamethylcyclotetrasiloxane [D4].

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Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation  
Authorisation number Not available

Expiry date: Not available

Exempt (categories of) use: Not available

CAS No: 540-97-6

Name: Dodecamethylcyclohexasiloxane

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number Not available

Expiry date: Not available

Exempt (categories of) use: Not available

CAS No: 541-02-6

Name: Decamethylcyclopentasiloxane

Authorisation status: listed in the Candidate List of Substances of Very High Concern for Authorisation

Authorisation number Not available

Expiry date: Not available

Exempt (categories of) use: Not available

**Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.**

Specified in regulation: Not applicable

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance/mixture.

## **SECTION 16: Other information**

**Full text of H-phrases as listed in sections 2 and 3.**

H226: Flammable liquid and vapour.

H361f: Suspected of damaging fertility.

H373: May cause damage to organs through prolonged or repeated exposure by inhalation.

H410: Very toxic to aquatic organisms, with long-lasting effects.

**Classification and procedure are used to derive the classification for mixtures from Directive (EC) No 1272/2008**

According to EC criteria, this product is not classified as hazardous.

## **Revision**

Identification Number: 4107633 / A281 / Creation date:: 04.08.2024 / Version: 9.0

If this version of the SDS contains significant changes from the previous version, these are listed below or indicated by bold double bars in the left margin throughout the website.

Changes include identification, hazards, tox/eco-tox information and the addition/disposal of ingredients, and regulatory information, hazard information, use, risk management measures and other significant changes to the product's regulations. A detailed explanation of the changes can be obtained upon request.

## **Edge lettering**

ACGIH: USA. ACGIH Threshold Limit Values (TLV).

BE OEL: Occupational exposure limits

STEL: Short-term exposure limit

TGG 15 min: Short-time value

TGG 8 hr: Limit value

TWA: 8 hours, time-weighted average

US WEEL: USA. Workplace Environmental Exposure Levels (WEEL).

Aquatic Chronic: (Chronic) Aquatic long-term hazard

Flam. Liq.: Flammable liquids

Repr.: Reproductive toxicity

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## Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CLP - Regulation on Classification, Labelling and Packaging; Regulation (EC) No 1272/2008; CMR - Carcinogenic, mutagenic or toxic to reproduction; DIN - Standard of the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECHA - European Chemicals Agency; EC-Number - EINECS number; ECx - Concentration associated with x% response; ELx - Charge capacity associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwanese Inventory of Chemical Substances; TECl - Inventory of Chemical Substances Existing in Thailand; TRGS - Technical Regulation on Hazardous Substances; TSCA - Toxic Substances Control Act (USA); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Information source and references

This safety data sheet was prepared by Product Regulatory Services and Hazard Communications Groups from information by internal references within our company.

DOW BENELUX B.V. asks each customer or recipient of this Material Safety Data Sheet (MSDS) to read it carefully and, if necessary, to consult the appropriate experts to understand the information contained in this MSDS and to be aware of the hazards presented by the product. The information in this document is given in good faith and is believed to be correct at the date of creation of this document. However, no express or implied warranty is given. Legal provisions may change and they may be different depending on the country. It is the buyer/user's responsibility to ensure that their activities comply with all local legal provisions. The information in this document relates only to the product as shipped. Since the conditions under which the product is used cannot be controlled by the manufacturer, the buyer/user must determine the conditions under which the product can be used in complete safety. Due to the proliferation of information sources, such as Safety Data Sheets (MSDS) from various manufacturers, we are not and cannot be responsible for MSDS obtained from other sources. If you have received a Safety Data Sheet from another source, or if you are not sure that you are in possession of the latest version of a Safety Data Sheet, please contact us.