



**Disposal**

P501

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information**

100 % of the mixture consists of component(s) of unknown acute oral toxicity. 100 % of the mixture consists of component(s) of unknown acute dermal toxicity. 100 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 100 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

**2.3. Other hazards**

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****General information**

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Quartz (SiO <sub>2</sub> )	10-30	14808-60-7 238-878-4	-	-	#
<b>Classification:</b> Carc. 1A;H350, STOT RE 1;H372					
Glass, oxide, chemicals	<15	65997-17-3 266-046-0	-	-	#
<b>Classification:</b> -					
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide	<15	68909-20-6 272-697-1	-	014-052-00-7	
<b>Classification:</b> STOT RE 2;H373					
Carbon Black	<3	1333-86-4 215-609-9	-	-	
<b>Classification:</b> Carc. 2;H351					
Zinc oxide	<3	1314-13-2 215-222-5	-	030-013-00-7	
<b>Classification:</b> Aquatic Acute 1;H400, Aquatic Chronic 1;H410					
Decamethylcyclopentasiloxane (D5)	<1	541-02-6 208-764-9	-	-	vPvB
<b>Classification:</b> -					
Decamethyltetrasiloxane (L4)	<1	141-62-8 205-491-7	-	-	vPvB
<b>Classification:</b> Flam. Liq. 3;H226					
Dodecamethylcyclohexasiloxane (D6)	<1	540-97-6 208-762-8	-	-	vPvB
<b>Classification:</b> -					
Octamethylcyclotetrasiloxane (D4)	<1	556-67-2 209-136-7	-	014-018-00-1	PBT vPvB
<b>Classification:</b> Flam. Liq. 3;H226, Repr. 2;H361f, Aquatic Chronic 1;H410(M=10)					
Octamethyltrisiloxane (L3)	<1	107-51-7 203-497-4	-	-	vPvB
<b>Classification:</b> Flam. Liq. 3;H226					

## List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### Composition comments

The full text for all H-statements is displayed in section 16. Finely divided Quartz and Glass Oxide has caused cancer and lung disease in workers that inhale it over an extended period of time. Additionally, there have been studies performed in animals that suggest Carbon Black may cause lung cancer through inhalation. Studies suggest, however, that these hazards are not associated with other routes of exposure. Since this product is in a liquid form, none of these components are able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz, Glass Oxide, and Carbon Black are not applicable to this product. This hazard applies to silica in dust form. There is no exposure to dust as the substance is bound within the matrix of the product.

## SECTION 4: First aid measures

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

#### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

#### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

#### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

#### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

Coughing.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### General fire hazards

No unusual fire or explosion hazards noted.

### 5.1. Extinguishing media

#### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

#### Special fire fighting procedures

Move containers from fire area if you can do so without risk.

### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Wear appropriate personal protective equipment.

#### For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### 6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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

Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

### 6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

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

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)

### 7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria

##### Components

silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)

##### Type

TWA (MAK)

##### Value

4 mg/m<sup>3</sup>

##### Form

Inhalable fraction.

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

##### Components

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

##### Type

MAK

##### Value

0,05 mg/m<sup>3</sup>

##### Form

Respirable dust.

Zinc oxide (CAS 1314-13-2)

MAK

5 mg/m<sup>3</sup>

Fume and respirable dust.

STEL

20 mg/m<sup>3</sup>

Inhalable fraction.

10 mg/m<sup>3</sup>

Respirable fraction.

##### Austria. OELs. TRK List, Grenzwerteverordnung, BGBl. II, no. 429/2011, as amended

##### Components

Glass, oxide, chemicals (CAS 65997-17-3)

##### Type

TWA

##### Value

300000 fibers/m<sup>3</sup>

##### Form

Fiber.

##### Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

##### Components

Carbon Black (CAS 1333-86-4)

##### Type

TWA

##### Value

3 mg/m<sup>3</sup>

##### Form

Respirable dust.

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

TWA

0,05 mg/m<sup>3</sup>

Respirable dust.

Zinc oxide (CAS 1314-13-2)

STEL

10 mg/m<sup>3</sup>

Respirable fraction.

TWA

2 mg/m<sup>3</sup>

Respirable fraction.

**Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust

**Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	Respirable fraction.
		6 mg/m3	Inhalable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	
	TWA	5 mg/m3	

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	MAC	3,5 mg/m3	
	STEL	7 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	MAC	0,3 fibers/cm3	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	MAC	0,1 mg/m3	
Zinc oxide (CAS 1314-13-2)	MAC	2 mg/m3	Respirable dust.
	STEL	10 mg/m3	Respirable dust.

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	10 mg/m3	Fiber or dust.
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.

**Czech Republic**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3	
		0,1 mg/m3	Respirable fraction.

**Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	10 mg/m3	Dust.
Zinc oxide (CAS 1314-13-2)	Ceiling	5 mg/m3	
	TWA	2 mg/m3	

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TLV	3,5 mg/m3	

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	STEL	0,6 fibers/cm3	Fiber.
	TLV	0,3 fibers/cm3	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	STEL	0,6 mg/m3	Total
	TLV	0,2 mg/m3	Respirable.
		0,3 mg/m3	Total
Zinc oxide (CAS 1314-13-2)	STEL	0,1 mg/m3	Respirable.
	TLV	8 mg/m3	
	TLV	4 mg/m3	

**Estonia**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	2 mg/m3	Respirable dust.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m3	Total dust.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	

**Finland**

Components	Type	Value
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	5 mg/m3

**Finland. Government Decree on Work-related Cancer Risks**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Respirable.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	2 mg/m3	Fume.

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable.

**Germany****Components**

	<b>Type</b>	<b>Value</b>
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3

**Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG), as updated**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m3	Inhalable dust.

**Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon Black (CAS 1333-86-4)	AGW	10 mg/m3	Inhalable dust.
Zinc oxide (CAS 1314-13-2)	AGW	1,25 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
		1,25 mg/m3	Respirable dust.

**Greece. OELs, Presidential Decree No. 307/1986, as amended**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable dust.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	Fibrous dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Fume.
		5 mg/m3	Dust.

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	Fiber.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,3 mg/m3	Total dust.
		0,1 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Fume.

**Ireland**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	STEL	7,2 mg/m3	Respirable dust. --
	TWA	18 mg/m3	Respirable dust.
		6 mg/m3	Inhalable dust.
		2,4 mg/m3	Respirable dust. -

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	2 fibers/cm3	
		5 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction and fume.
	TWA	2 mg/m3	Respirable fraction and fume.

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Inhalable fraction.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Latvia**

Components	Type	Value
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	1 mg/m3

**Latvia. Carcinogens and Mutagens at workplace (Regulation on requirements of carcinogenic substances at workplace, Annex 1, No 803/2008, as amended)**

Components	Type	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Inhalable fraction.

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	
		2 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)	TWA	0,5 mg/m3	

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m <sup>3</sup>	

**Luxembourg. OELs for carcinogens/mutagens, Annex III, G.D.R. of 14 November 2016, OJ Memorial A, n. 235/2016, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant 2006, 252, as amended)**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,075 mg/m <sup>3</sup>	Respirable dust.

**Norway**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	STEL	3 mg/m <sup>3</sup>	Respirable dust.
		TWA	1,5 mg/m <sup>3</sup>

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TLV	3,5 mg/m <sup>3</sup>	
Glass, oxide, chemicals (CAS 65997-17-3)	TLV	5 mg/m <sup>3</sup>	Total dust.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TLV	0,3 mg/m <sup>3</sup>	Total dust.
		0,05 mg/m <sup>3</sup>	Respirable dust.
Zinc oxide (CAS 1314-13-2)	TLV	5 mg/m <sup>3</sup>	Respirable dust.
		5 mg/m <sup>3</sup>	Dust.
		10 mg/m <sup>3</sup>	Total dust.

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	4 mg/m <sup>3</sup>	Inhalable fraction.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm <sup>3</sup>	Respirable fibers.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m <sup>3</sup>	Inhalable fraction.
	TWA	5 mg/m <sup>3</sup>	Inhalable fraction.

**Portugal. OELs for Carcinogens/Mutagens MINISTÉRIO DO TRABALHO E DA SOLIDARIEDADE Decreto-Lei n.o 301/2000, ANEXO, as amended**

Components	Type	Value
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/ml

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Fume.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,2 fibers/cm3	Fiber.
		5 mg/m3	Inhalable fraction.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

Components	Type	Value	Form
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Fume.
	TWA	5 mg/m3	Fume.

**Slovakia. OELs for carcinogens and mutagens. Regulation No. 356/2006 on carcinogenic and mutagenic substances, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	2 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	2 fibers/cm3	
Zinc oxide (CAS 1314-13-2)	STEL	1 mg/m3	Respirable fume.
	TWA	1 mg/m3	Respirable fume.

**Slovenia**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3	Inhalable fraction.

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Ann. I 100/2001), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	KTV	20 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	KTV	20 mg/m3	Inhalable fraction.
		2,5 mg/m3	Respirable fraction.

**Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	TWA	10 mg/m3	Inhalable fraction.
		1,25 mg/m3	Respirable fraction.

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3,5 mg/m3	
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	10 mg/m3	Respirable fraction.
	TWA	2 mg/m3	Respirable fraction.

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	5 mg/m3	Inhalable dusts and mists.
		1 mg/m3	Inhalable dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Zinc oxide (CAS 1314-13-2)	TWA	5 mg/m3	Total dust.

**Switzerland**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3	Inhalable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	TWA	3 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,5 fibers/ml	Fiber.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable fraction.
Zinc oxide (CAS 1314-13-2)	STEL	3 mg/m3	Respirable fume.
	TWA	3 mg/m3	Respirable fume.

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

Components	Type	Value	Form
Carbon Black (CAS 1333-86-4)	STEL	7 mg/m3	
	TWA	3,5 mg/m3	
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable.
Zinc oxide (CAS 1314-13-2)	TWA	4 mg/m3	Respirable dust.
		10 mg/m3	Inhalable dust.

**EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/ml	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction and dust

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Black
<b>Odour</b>	Odourless.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Flash point</b>	>135,0 °C (>275,0 °F)
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Kinematic viscosity</b>	Not available.

<b>Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Density and/or relative density</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Particle characteristics</b>	Not available.

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

**Specific gravity** >1

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Contact with incompatible materials. Sunlight. Excessive heat.
<b>10.5. Incompatible materials</b>	Powerful oxidizers. Chlorine. Strong acids. Strong bases.
<b>10.6. Hazardous decomposition products</b>	Thermal decomposition may produce: Carbon oxides (CO, CO <sub>2</sub> ). Oxides of platinum. Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitiser. Formaldehyde can also cause respiratory and eye irritation. Zinc oxide. Nitrogen oxides (NO <sub>x</sub> ).

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Coughing.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Not known.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Carbon Black (CAS 1333-86-4)		
<u><b>Acute</b></u>		
<b>Oral</b>		
LD50	Rat	> 8000 mg/kg
Decamethylcyclopentasiloxane (D5) (CAS 541-02-6)		
<u><b>Acute</b></u>		
<b>Dermal</b>		
LD50	New Zealand white rabbit	> 2000 mg/kg
	Rabbit	> 16 ml/kg
<b>Inhalation</b>		
LC50	Rat	8,67 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 16 ml/kg
	Sprague-Dawley rat	> 5000 mg/kg

Components	Species	Test Results
Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 50 g/kg
Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2,5 ml/kg
	Rat	> 2375 mg/kg
<b>Inhalation</b>		
LC50	Rat	36 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 4800 mg/kg
Octamethyltrisiloxane (L3) (CAS 107-51-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 22,6 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
Zinc oxide (CAS 1314-13-2)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Mouse	> 5,7 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	> 5 g/kg
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Glass, oxide, chemicals (CAS 65997-17-3)		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Carbon Black (CAS 1333-86-4)	2B Possibly carcinogenic to humans.	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	1 Carcinogenic to humans.	
<b>Latvia Carcinogens/Mutagens: Carcinogen</b>		
Glass, oxide, chemicals (CAS 65997-17-3)	Carcinogen rating: 1B	
<b>Portugal OELs for Carcinogens/Mutagens: Carcinogen</b>		
Glass, oxide, chemicals (CAS 65997-17-3)	Carcinogenicity	
<b>Reproductive toxicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.	

**Mixture versus substance information** No information available.

### 11.2. Information on other hazards

**Endocrine disrupting properties** This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**Other information** Not available.

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test Results
Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fish > 22 µg/l
<i>Chronic</i>		
Fish	NOEC	Fish 0,0044 mg/l
Octamethyltrisiloxane (L3) (CAS 107-51-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Oncorhynchus mykiss > 19,4 µg/l, 96 hr
Zinc oxide (CAS 1314-13-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fathead minnow (Pimephales promelas) 2246 mg/l, 96 hours

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### 12.3. Bioaccumulative potential

#### Partition coefficient

##### n-octanol/water (log Kow)

Decamethylcyclopentasiloxane (D5)	8,023, at 25,3 °C
Dodecamethylcyclohexasiloxane (D6)	8,87, at 23,6 °C
Octamethylcyclotetrasiloxane (D4)	6,488, at 25,1 °C
Octamethyltrisiloxane (L3)	6,598, at 25,3 °C

#### Bioconcentration factor (BCF)

Octamethyltrisiloxane (L3)	7730 whole body w.w. Species: Fish
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**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not available.

**12.6. Endocrine disrupting properties** This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**12.7. Other adverse effects** Product does not contain substances which are persistent, mobile, and toxic (PMT) at levels of 0.1 % or higher. Product does not contain substances which are very persistent and very mobile (vPvM) 0.1 % or higher.

### 12.8. Additional information

#### Estonia Dangerous substances in soil Data

Zinc oxide (CAS 1314-13-2)	Zinc (Zn) 1000 mg/kg Zinc (Zn) 200 mg/kg Zinc (Zn) 500 mg/kg
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; Octamethylcyclotetrasiloxane)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary hazard</b>	-
<b>Label(s)</b>	9
<b>Hazard No. (ADR)</b>	90
<b>Tunnel restriction code</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### RID

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; Octamethylcyclotetrasiloxane)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary hazard</b>	-
<b>Label(s)</b>	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### ADN

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; Octamethylcyclotetrasiloxane)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary hazard</b>	-
<b>Label(s)</b>	9
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>14.6. Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

### IATA

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Zinc Oxide; Octamethylcyclotetrasiloxane)
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	9
<b>Subsidiary hazard</b>	-
<b>14.4. Packing group</b>	III
<b>14.5. Environmental hazards</b>	Yes
<b>ERG Code</b>	9L

**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**Other information**

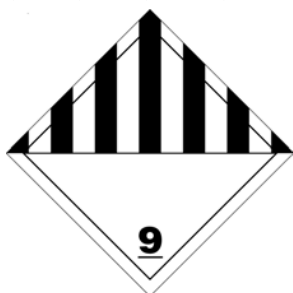
**Passenger and cargo aircraft** Allowed with restrictions.  
**Cargo aircraft only** Allowed with restrictions.

**IMDG**

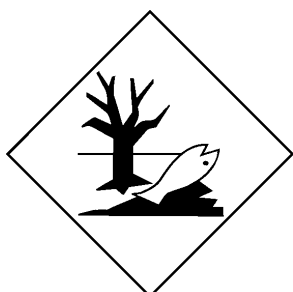
**14.1. UN number** UN3082  
**14.2. UN proper shipping name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Zinc Oxide; Octamethylcyclotetrasiloxane)  
**14.3. Transport hazard class(es)**  
**Class** 9  
**Subsidiary hazard** -  
**14.4. Packing group** III  
**14.5. Environmental hazards**  
**Marine pollutant** Yes  
**EmS** F-A, S-F  
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Maritime transport in bulk according to IMO instruments** Not established.

**ADN; ADR; IATA; IMDG; RID**



**Marine pollutant**



**General information** IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

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

**EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Carbon Black (CAS 1333-86-4)

Zinc oxide (CAS 1314-13-2)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Decamethylcyclopentasiloxane (D5) (CAS 541-02-6)

Decamethyltetrasiloxane (L4) (CAS 141-62-8)

Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6)

Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)

Octamethyltrisiloxane (L3) (CAS 107-51-7)

**Authorisations****Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

**Restrictions on use****Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered**

Decamethylcyclopentasiloxane (D5) (CAS 541-02-6) 70

Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2) 70

Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6) 70

Zinc oxide (CAS 1314-13-2) 3

Glass, oxide, chemicals (CAS 65997-17-3)

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other EU regulations**

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)**Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations**

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Latvia. Carcinogens and Mutagens at workplace (Regulation on requirements of carcinogenic substances at workplace, Annex 1, No 803/2008 as amended)**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)**Contains a substance which is included on the TRGS 905 list of carcinogenic, germ cell mutagenic and reproductive toxic substances**

Carbon Black (CAS 1333-86-4)

Anorganische Faserstäube, soweit nicht erwähnt  
(ausgenommen Gipsfasern und Wollastonitfasern)

Zinc oxide (CAS 1314-13-2)

Anorganische Faserstäube, soweit nicht erwähnt  
(ausgenommen Gipsfasern und Wollastonitfasern)**Luxembourg. OELs for carcinogens/mutagens, Annex III, G.D.R. of 14 November 2016, OJ Memorial A, n. 235/2016, as amended**Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant 2006, 252, as amended)**Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)**Portugal. OELs for Carcinogens/Mutagens (Annex), Decree-Law No. 301/2000**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

## France regulations

### France INRS Table of Occupational Diseases

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

Affections consécutives à l'inhalation de poussières minérales renfermant de la silice cristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille  
25

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of 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.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

MAC: Maximum Allowed Concentration.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VLE: Exposure Limit Value.

VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

### Full text of any statements, which are not written out in full under sections 2 to 15

H226 Flammable liquid and vapour.

H350 May cause cancer.

H351 Suspected of causing cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

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

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

### Revision information

None.

### Training information

Follow training instructions when handling this material.

### Disclaimer

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## Precautionary statements

### Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

### Response

P308 + P313	IF exposed or concerned: Get medical advice/attention.
P391	Collect spillage.

### Storage

P405	Store locked up.
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### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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**Supplemental label information** Restricted to professional users. 100 % of the mixture consists of component(s) of unknown acute oral toxicity. 100 % of the mixture consists of component(s) of unknown acute dermal toxicity. 100 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 100 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 2.3. Other hazards

The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight. The mixture does not contain any substances having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1% by weight.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Quartz (SiO <sub>2</sub> )	15-40	14808-60-7 238-878-4	-	-	#
<b>Classification:</b> Carc. 1A;H350, STOT RE 1;H372					
Glass, oxide, chemicals	<15	65997-17-3 266-046-0	-	-	#
<b>Classification:</b> -					
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide	<15	68909-20-6 272-697-1	-	014-052-00-7	
<b>Classification:</b> STOT RE 2;H373					
Siloxanes And Silicones, Dimethyl, Methyl Hydrogen	<10	68037-59-2 -	-	-	
<b>Classification:</b> Skin Irrit. 2;H315, Eye Irrit. 2;H319, STOT SE 3;H335					
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcy clotetrasiloxane	<5	2554-06-5 219-863-1	-	-	
<b>Classification:</b> Repr. 1B;H360					
Decamethylcyclopentasiloxane (D5)	<1	541-02-6 208-764-9	-	-	vPvB
<b>Classification:</b> -					
Decamethyltetrasiloxane (L4)	<1	141-62-8 205-491-7	-	-	vPvB
<b>Classification:</b> Flam. Liq. 3;H226					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Dodecamethylcyclohexasiloxane (D6)	<1	540-97-6 208-762-8	-	-	vPvB
<b>Classification: -</b>					
Octamethylcyclotetrasiloxane (D4)	<1	556-67-2 209-136-7	-	014-018-00-1	PBT vPvB
<b>Classification: Flam. Liq. 3;H226, Repr. 2;H361f, Aquatic Chronic 1;H410(M=10)</b>					
Octamethyltrisiloxane (L3)	<1	107-51-7 203-497-4	-	-	vPvB
<b>Classification: Flam. Liq. 3;H226</b>					

#### List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### Composition comments

The full text for all H-statements is displayed in section 16. Finely divided Quartz and Glass Oxide has caused cancer and lung disease in workers that inhale it over an extended period of time. Studies suggest, however, that these hazards are not associated with other routes of exposure. Since this product is in a liquid form, none of these components are able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz and Glass Oxide are not applicable to this product. This hazard applies to silica in dust form. There is no exposure to dust as the substance is bound within the matrix of the product.

## SECTION 4: First aid measures

#### General information

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

##### Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists.

##### Eye contact

Rinse with water. Get medical attention if irritation develops and persists.

##### Ingestion

Rinse mouth. Get medical attention if symptoms occur.

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

Coughing.

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

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

#### General fire hazards

No unusual fire or explosion hazards noted.

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

##### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

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

During fire, gases hazardous to health may be formed.

#### 5.3. Advice for firefighters

##### Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Special fire fighting procedures

Move containers from fire area if you can do so without risk.

#### Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Wear appropriate personal protective equipment.

**For emergency responders** Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

**6.3. Methods and material for containment and cleaning up** Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

**6.4. Reference to other sections** For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

**7.2. Conditions for safe storage, including any incompatibilities** Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tonnes; Upper-tier requirements = 500 tonnes)

**7.3. Specific end use(s)** Observe industrial sector guidance on best practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Austria

##### Components

silanamine,  
1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)

##### Type

TWA (MAK)

##### Value

4 mg/m<sup>3</sup>

##### Form

Inhalable fraction.

##### Austria. MAK List, OEL Ordinance (GwV), BGBl. II, no. 184/2001, as amended

##### Components

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

##### Type

MAK

##### Value

0,05 mg/m<sup>3</sup>

##### Form

Respirable dust.

##### Austria. OELs. TRK List, Grenzwerteverordnung, BGBl. II, no. 429/2011, as amended

##### Components

Glass, oxide, chemicals (CAS 65997-17-3)

##### Type

TWA

##### Value

300000 fibers/m<sup>3</sup>

##### Form

Fiber.

**Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,05 mg/m <sup>3</sup>	Respirable dust.

**Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm <sup>3</sup>	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction and dust

**Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm <sup>3</sup>	Respirable fraction.
		6 mg/m <sup>3</sup>	Inhalable fraction.

**Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended**

Components	Type	Value
Glass, oxide, chemicals (CAS 65997-17-3)	MAC	0,3 fibers/cm <sup>3</sup>
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	MAC	0,1 mg/m <sup>3</sup>

**Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	10 mg/m <sup>3</sup>	Fiber or dust.

**Czech Republic**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m <sup>3</sup>	
		0,1 mg/m <sup>3</sup>	Respirable fraction.

**Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	STEL	0,6 fibers/cm <sup>3</sup>	Fiber.
	TLV	0,3 fibers/cm <sup>3</sup>	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	STEL	0,6 mg/m <sup>3</sup>	Total
		0,2 mg/m <sup>3</sup>	Respirable.
	TLV	0,3 mg/m <sup>3</sup>	Total
		0,1 mg/m <sup>3</sup>	Respirable.
Siloxanes and Silicones, Me hydrogen (CAS 63148-57-2)	STEL	6 mg/m <sup>3</sup>	
		1 ppm	

**Estonia**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	2 mg/m3	Respirable dust.

**Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended**

Components	Type	Value
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3

**Finland**

Components	Type	Value
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	5 mg/m3

**Finland. Government Decree on Work-related Cancer Risks**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.

**Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Respirable.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable.

**France. OELs. Occupational Exposure Limits as Prescribed by Art. R.4412-149 of Labor Code, as amended**

Components	Type	Value	Form
Quartz (SiO2) (CAS 14808-60-7)	VME	0,1 mg/m3	Respirable.

**Germany**

Components	Type	Value
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3

**Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	Fibrous dust.
Quartz (SiO2) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm3	Fiber.

**Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,3 mg/m <sup>3</sup>	Total dust.
		0,1 mg/m <sup>3</sup>	Respirable dust.
Siloxanes and Silicones, Me hydrogen (CAS 63148-57-2)	STEL	6 mg/m <sup>3</sup>	
		1 ppm	

**Ireland**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	7,2 mg/m <sup>3</sup>	Respirable dust. --
		18 mg/m <sup>3</sup>	Respirable dust.
		6 mg/m <sup>3</sup>	Inhalable dust.
		2,4 mg/m <sup>3</sup>	Respirable dust. -

**Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	2 fibers/cm <sup>3</sup>	
		5 mg/m <sup>3</sup>	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,025 mg/m <sup>3</sup>	Respirable fraction.

**Latvia**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	1 mg/m <sup>3</sup>	

**Latvia. Carcinogens and Mutagens at workplace (Regulation on requirements of carcinogenic substances at workplace, Annex 1, No 803/2008, as amended)**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Inhalable fraction.

**Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm <sup>3</sup>	
		2 mg/m <sup>3</sup>	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Luxembourg. OELs for carcinogens/mutagens, Annex III, G.D.R. of 14 November 2016, OJ Memorial A, n. 235/2016, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable dust.

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant 2006, 252, as amended)**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,075 mg/m <sup>3</sup>	Respirable dust.

**Norway**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	STEL	3 mg/m <sup>3</sup>	Respirable dust.
	TWA	1,5 mg/m <sup>3</sup>	Respirable dust. -

**Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TLV	5 mg/m <sup>3</sup>	Total dust.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TLV	0,3 mg/m <sup>3</sup>	Total dust.
		0,05 mg/m <sup>3</sup>	Respirable dust.

**Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	1 fibers/cm <sup>3</sup>	Respirable fibers.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction.

**Portugal. OELs for Carcinogens/Mutagens MINISTÉRIO DO TRABALHO E DA SOLIDARIEDADE Decreto-Lei n.o 301/2000, ANEXO, as amended**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/ml	

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014)**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,2 fibers/cm <sup>3</sup>	Fiber.
		5 mg/m <sup>3</sup>	Inhalable fraction.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,025 mg/m <sup>3</sup>	Respirable fraction.

**Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)**

Components	Type	Value
2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane (CAS 2554-06-5)	STEL	50 mg/m3
	TWA	30 mg/m3

**Slovakia. OELs for carcinogens and mutagens. Regulation No. 356/2006 on carcinogenic and mutagenic substances, as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.

**Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)**

Components	Type	Value
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	2 fibers/cm3

**Slovenia**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3	Inhalable fraction.

**Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable fraction.

**Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.

**Switzerland**

Components	Type	Value	Form
silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica; pyrogenic, synthetic amorphous, nano, surface treated silicon dioxide (CAS 68909-20-6)	TWA	4 mg/m3	Inhalable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,5 fibers/ml	Fiber.
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,15 mg/m3	Respirable fraction.

**UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1**

Components	Type	Value	Form
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable.

**EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A**

Components	Type	Value	Form
Glass, oxide, chemicals (CAS 65997-17-3)	TWA	0,3 fibers/ml	
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	TWA	0,1 mg/m <sup>3</sup>	Respirable fraction and dust

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**Exposure guidelines****Romania OELs: Skin designation**

2,4,6,8-tetramethyl-2,4,6,8-tetravinylcyclotetrasiloxane (CAS 2554-06-5) Can be absorbed through the skin.

**8.2. Exposure controls**

**Appropriate engineering controls** Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

**General information** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Eye/face protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Skin protection**

- **Hand protection** Wear appropriate chemical resistant gloves.

- **Other** Use of an impervious apron is recommended.

**Respiratory protection** Chemical respirator with organic vapour cartridge and full facepiece.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**Hygiene measures** Observe any medical surveillance requirements. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**Environmental exposure controls** Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid.
<b>Form</b>	Liquid.
<b>Colour</b>	Tan.
<b>Odour</b>	Odourless.
<b>Melting point/freezing point</b>	Not available.
<b>Boiling point or initial boiling point and boiling range</b>	Not available.
<b>Flammability</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit – upper (%)</b>	Not available.
<b>Flash point</b>	>135,0 °C (>275,0 °F)

<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>pH</b>	Not available.
<b>Kinematic viscosity</b>	Not available.
<b>Solubility</b>	
<b>Solubility (water)</b>	Not available.
<b>Partition coefficient (n-octanol/water) (log value)</b>	Not available.
<b>Vapour pressure</b>	Not available.
<b>Density and/or relative density</b>	Not available.
<b>Vapour density</b>	Not available.
<b>Particle characteristics</b>	Not available.

## 9.2. Other information

**9.2.1. Information with regard to physical hazard classes** No relevant additional information available.

### 9.2.2. Other safety characteristics

**Specific gravity** >1

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	Evolved hydrogen gas is flammable and may form explosive mixtures with air.
<b>10.4. Conditions to avoid</b>	Sunlight. High temperatures. Contact with incompatible materials.
<b>10.5. Incompatible materials</b>	Water. Bases. Powerful oxidizers. Metals. Alcohols. Chlorine.
<b>10.6. Hazardous decomposition products</b>	Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Flammable hydrogen gas. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

## SECTION 11: Toxicological information

**General information** Occupational exposure to the substance or mixture may cause adverse effects.

### Information on likely routes of exposure

<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Skin contact</b>	Prolonged skin contact may cause temporary irritation.
<b>Eye contact</b>	Direct contact with eyes may cause temporary irritation.
<b>Ingestion</b>	May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure.

**Symptoms** Coughing.

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity** Not known.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
Decamethylcyclopentasiloxane (D5) (CAS 541-02-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	New Zealand white rabbit	> 2000 mg/kg
	Rabbit	> 16 ml/kg
<b>Inhalation</b>		
LC50	Rat	8,67 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 16 ml/kg
	Sprague-Dawley rat	> 5000 mg/kg

Components	Species	Test Results
Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Oral</b>		
LD50	Rat	> 50 g/kg
Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	> 2,5 ml/kg
	Rat	> 2375 mg/kg
<b>Inhalation</b>		
LC50	Rat	36 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 4800 mg/kg
Octamethyltrisiloxane (L3) (CAS 107-51-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 22,6 mg/l/4h
<b>Oral</b>		
LD50	Rat	> 2000 mg/kg
<b>Skin corrosion/irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Serious eye damage/eye irritation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Respiratory sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Skin sensitisation</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Germ cell mutagenicity</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Carcinogenicity</b>	Risk of cancer cannot be excluded with prolonged exposure.	
<b>Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>		
Glass, oxide, chemicals (CAS 65997-17-3)		
<b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>		
Quartz (SiO <sub>2</sub> ) (CAS 14808-60-7)	1 Carcinogenic to humans.	
<b>Latvia Carcinogens/Mutagens: Carcinogen</b>		
Glass, oxide, chemicals (CAS 65997-17-3)	Carcinogen rating: 1B	
<b>Portugal OELs for Carcinogens/Mutagens: Carcinogen</b>		
Glass, oxide, chemicals (CAS 65997-17-3)	Carcinogenicity	
<b>Reproductive toxicity</b>	May damage fertility or the unborn child.	
<b>Specific target organ toxicity - single exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Specific target organ toxicity - repeated exposure</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Aspiration hazard</b>	Due to partial or complete lack of data the classification is not possible.	
<b>Mixture versus substance information</b>	No information available.	
<b>11.2. Information on other hazards</b>		
<b>Endocrine disrupting properties</b>	This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.	
<b>Other information</b>	Not available.	

## SECTION 12: Ecological information

**12.1. Toxicity** Toxic to aquatic life with long lasting effects. Based on available data, the classification criteria are not met for hazardous to the aquatic environment, acute hazard.

Components	Species	Test Results
Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Fish > 22 µg/l
<i>Chronic</i>		
Fish	NOEC	Fish 0,0044 mg/l
Octamethyltrisiloxane (L3) (CAS 107-51-7)		
<b>Aquatic</b>		
<i>Acute</i>		
Fish	LC50	Oncorhynchus mykiss > 19,4 µg/l, 96 hr

**12.2. Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### 12.3. Bioaccumulative potential

#### Partition coefficient

##### n-octanol/water (log Kow)

Decamethylcyclopentasiloxane (D5)	8,023, at 25,3 °C
Dodecamethylcyclohexasiloxane (D6)	8,87, at 23,6 °C
Octamethylcyclotetrasiloxane (D4)	6,488, at 25,1 °C
Octamethyltrisiloxane (L3)	6,598, at 25,3 °C

#### Bioconcentration factor (BCF)

Octamethyltrisiloxane (L3)	7730 whole body w.w. Species: Fish
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**12.4. Mobility in soil** No data available.

**12.5. Results of PBT and vPvB assessment** Not available.

**12.6. Endocrine disrupting properties** This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

**12.7. Other adverse effects** Product does not contain substances which are persistent, mobile, and toxic (PMT) at levels of 0.1 % or higher. Product does not contain substances which are very persistent and very mobile (vPvM) 0.1 % or higher.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
<b>Contaminated packaging</b>	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Special precautions</b>	Dispose in accordance with all applicable regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN3082
<b>14.2. UN proper shipping name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)

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

Class 9  
Subsidiary hazard -  
Label(s) 9  
Hazard No. (ADR) 90  
Tunnel restriction code -

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**RID**

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)

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

Class 9  
Subsidiary hazard -  
Label(s) 9

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**ADN**

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)

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

Class 9  
Subsidiary hazard -  
Label(s) 9

14.4. Packing group III

14.5. Environmental hazards Yes

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IATA**

14.1. UN number UN3082

14.2. UN proper shipping name Environmentally hazardous substance, liquid, n.o.s. (Octamethylcyclotetrasiloxane)

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

Class 9  
Subsidiary hazard -

14.4. Packing group III

14.5. Environmental hazards Yes

ERG Code 9L

14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**Other information**

Passenger and cargo aircraft Allowed with restrictions.

Cargo aircraft only Allowed with restrictions.

**IMDG**

14.1. UN number UN3082

14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Octamethylcyclotetrasiloxane)

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

Class 9  
Subsidiary hazard -

14.4. Packing group III

14.5. Environmental hazards

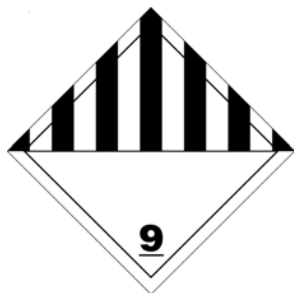
Marine pollutant Yes

EmS F-A, S-F

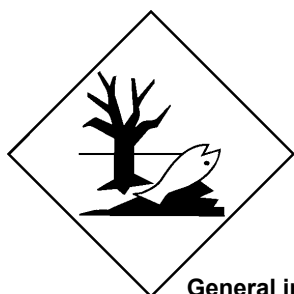
**14.6. Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.

**14.7. Maritime transport in bulk according to IMO instruments** Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

## SECTION 15: Regulatory information

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

### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Decamethylcyclopentasiloxane (D5) (CAS 541-02-6)

Decamethyltetrasiloxane (L4) (CAS 141-62-8)

Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6)

Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2)

Octamethyltrisiloxane (L3) (CAS 107-51-7)

### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered**

Decamethylcyclopentasiloxane (D5) (CAS 541-02-6) 70

Octamethylcyclotetrasiloxane (D4) (CAS 556-67-2) 70

Dodecamethylcyclohexasiloxane (D6) (CAS 540-97-6) 70

Glass, oxide, chemicals (CAS 65997-17-3)

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex I, as amended**

Not listed.

**Regulation 2019/1148 on Marketing and Use of Explosive Precursors, Annex II, as amended**

Not listed.

**Other EU regulations**

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances  
Hazard categories in accordance with Regulation (EC) No 1272/2008  
- E2 Hazardous to the Aquatic Environment Chronic

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

**Other regulations**

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

**National regulations**

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended Use of this product by young persons under the age of 18 is not allowed in accordance with the Management of Health and Safety at Work Regulations 1999 [SI 1999/3242], as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

**Latvia. Carcinogens and Mutagens at workplace (Regulation on requirements of carcinogenic substances at workplace, Annex 1, No 803/2008 as amended)**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

**Luxembourg. OELs for carcinogens/mutagens, Annex III, G.D.R. of 14 November 2016, OJ Memorial A, n. 235/2016, as amended**

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

**Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant 2006, 252, as amended)**

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

**Portugal. OELs for Carcinogens/Mutagens (Annex), Decree-Law No. 301/2000**

Glass, oxide, chemicals (CAS 65997-17-3)

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

**France regulations**

**France INRS Table of Occupational Diseases**

Quartz (SiO<sub>2</sub>) (CAS 14808-60-7)

Affections consécutives à l'inhalation de poussières minérales renfermant de la silice cristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille  
25

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out.

**SECTION 16: Other information**

**List of 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.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods.

IMO: International Maritime Organization.

MAC: Maximum Allowed Concentration.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

TLV: Threshold Limit Value.

TWA: Time Weighted Average.

VLE: Exposure Limit Value.  
VME: Exposure Average Value.  
vPvB: Very persistent and very bioaccumulative.

#### References

Not available.

#### Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

#### Full text of any statements, which are not written out in full under sections 2 to 15

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H350 May cause cancer.  
H360 May damage fertility or the unborn child.  
H361f Suspected of damaging fertility.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H373 May cause damage to organs through prolonged or repeated exposure by inhalation.  
H410 Very toxic to aquatic life with long lasting effects.

#### Revision information

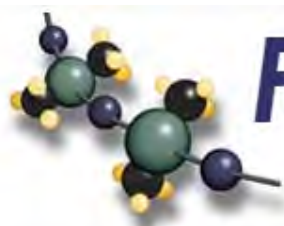
None.

#### Training information

Follow training instructions when handling this material.

#### Disclaimer

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