

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 1/24



Opgesteld door: NB

Bekrachtigd door: SL

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

### 1.1. Product identifier

Productname	<b>Kelfort ® Sil-NM 310ML Anthracite</b>
Article number	1516333
Producttype	Mixture
Regulation	(EC) No. 1907/2006 and (EC) No. 1272/2008

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

Recommended use	Sealant
Uses advised against	None known.

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

**Distributeur** Ferney Group BV  
Postbus 24  
1700 AA Heerhugowaard - The Netherlands  
T +31 (0)72-5765000 - F +31 (0)72-5765010  
[bedrijfsbureau@ferneygroup.nl](mailto:bedrijfsbureau@ferneygroup.nl) - [www.ferney.nl](http://www.ferney.nl)

### 1.4 Emergency telephone number

Noodtelefoon : +49(0)9366-907126 (ma-do 7.15-18.00 hour) or  
: +31(0)88-7558000 (after worktime, exclusive use for doctors, pharmacists and government institutions)

Country	Organisation/ Company	Address	Emergency number	Comments
The Netherlands	National Poisons Information Center	House post number B.00.118 PO Box 85500 3508 GA Utrecht	+31 88 755 80 00	For the sole purpose of informing healthcare professionals in the event of acute poisoning

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 2/24



Opgesteld door: NB

Bekrachtigd door: SL

## **SECTION 2: Hazards identification**

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

*Regulation (EC) No 1272/2008*

Chronic aquatic toxicity

Category 3 - (H412)

### **2.2. Label elements**

#### **Signal word**

None

#### **Hazard statements**

H412 - Harmful to aquatic life with long lasting effects.

#### **EU Specific Hazard Statements**

EUH208 - Contains 3-aminopropyltriethoxysilane & 2-octyl-2H-isothiazol-3-one [OIT]. May produce an allergic reaction

#### **Precautionary Statements - EU (§28, 1272/2008)**

P273 - Avoid release to the environment

P501 - Dispose of contents/ container to an approved waste disposal plant

### **2.3. Other hazards**

Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing. Small amounts of 2-Pentanone oxime (CAS 623-40-5) are formed by hydrolysis and released upon curing. Harmful to aquatic life.

#### **PBT & vPvB**

This mixture contains substances considered to be persistent, bio-accumulating and toxic (PBT). This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 3/24



Opgesteld door: NB

Bekrachtigd door: SL

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	EC No (EU Index No)	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Silica, amorphous	231-545-4	7631-86-9	5 - <10	[B]	-	01-2119379499-16-XXXX
2-Pentandione, O,O',O''-(methylsilylidyn e)trioxime	484-460-1	37859-55-5	1 - <5	Acute Tox. 4 (H302) Eye Irrit. 2 (H319)	-	01-2120004323-76-XXXX
3-aminopropyltriethoxysilane	(612-108-00-0) 213-048-4	919-30-2	0.1 - <0.5	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302)	-	01-2119480479-24-XXXX
Dodecamethylcyclohexasiloxane [D6]	208-762-8	540-97-6	0.1 - <0.5	PBT vPvB	-	01-2119517435-42-XXXX
Decamethylcyclopentasiloxane [D5]	208-764-9	541-02-6	0.1 - <0.5	PBT vPvB	-	01-2119511367-43-XXXX
Titanium dioxide	(022-006-00-2) 236-675-5	13463-67-7	0.1 - <0.3	[C]	-	01-2119489379-17-XXXX
Octamethylcyclotetrasiloxane [D4]	(014-018-00-1) 209-136-7	556-67-2	0.1 - <0.3	Repr. 2 (H361f) Aquatic Chronic 1 (H410) Flam. Liq. 3 (H226) [G]	-	01-2119529238-36-XXXX
2-octyl-2H-isothiazol-3-one [OIT]	(613-112-00-5) 247-761-7	26530-20-1	0.0025 - <0.01	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Eye Dam 1	Skin Sens. 1A :: C>=0.0015%	-

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 4/24



Opgesteld door: NB	Bekrachtigd door: SL
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				(H318) Skin Sens. 1A (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		
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**Classification according to Regulation (EC) No. 1272/2008 [CLP] - Notes**

[B] - Substance with a Community workplace exposure limit

[C] - Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

[G] - This substance meets the PBT criteria of REACH, annex XIII

This substance meets the vPvB criteria of REACH, annex XIII

**Full text of H- and EUH-phrases: see section 16**

**Air contaminants formed when using the substance or mixture as intended**

Chemical name	EC No (EU Index No)	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
2-Pentanone oxime 623-40-5	484-470-6	1 - <2.5	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	-	-	-	01-211998007 9-27-XXXX
Ethanol 64-17-5	(603-002-00-5) 200-578-6	1 - <2.5	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	01-211945761 0-43-XXXX
Methyl alcohol 67-56-1	(603-001-00-X) 200-659-6	1 - <2.5	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	-	-	01-211943330 7-44-XXXX

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	EC No (EU Index No)	CAS No	SVHC candidates
Dodecamethylcyclohexasiloxane [D6]	208-762-8	540-97-6	X
Decamethylcyclopentasiloxane [D5]	208-764-9	541-02-6	X
Octamethylcyclotetrasiloxane [D4]	(014-018-00-1) 209-136-7	556-67-2	X

**Notes**

See section 16 for more information

Chemical name	Notes
Titanium dioxide - 13463-67-7	V,W,10

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 5/24



Opgesteld door: NB

Bekrachtigd door: SL

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

### **4.1. Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance. If medical advice is needed, have product container or label at hand.
<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a doctor.
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Consult an ophthalmologist.
<b>Skin contact</b>	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Drink 1 or 2 glasses of water. Do NOT induce vomiting.

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

**Symptoms** None known.

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

**Note to doctors** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released, when the product is exposed to moisture or water. Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

**Suitable Extinguishing Media** Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Unsuitable extinguishing media** Full water jet.

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

**Specific hazards arising from the chemical** Thermal decomposition can lead to release of irritating gases and vapours.

**Hazardous combustion products** Silicon oxides. Silicon dioxide. Thermal decomposition can lead to release of irritating and toxic gases and vapours.

### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 6/24



Opgesteld door: NB

Bekrachtigd door: SL

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

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

**Personal precautions** Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** Prevent product from entering drains. Do not allow to enter into soil/subsoil. See Section 12 for additional Ecological Information.

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

**Methods for containment** Do not scatter spilled material with high pressure water streams.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

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

**Reference to other sections** See section 8 for more information. See section 13 for more information.

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

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

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Take off all contaminated clothing and wash it before reuse.

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

**Storage Conditions** Protect from moisture. Keep away from food, drink and animal feedingstuffs.

**Recommended storage temperature** Keep at temperatures between 10 and 35 °C.

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

**Specific use(s)**  
Sealant.

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

**Other information** Observe technical data sheet.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 7/24



Opgesteld door: NB	Bekrachtigd door: SL
--------------------	----------------------

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product

Chemical name	European Union	United Kingdom
Silica, amorphous 7631-86-9	TWA: 0.1 mg/m <sup>3</sup>	TWA: 6 mg/m <sup>3</sup> TWA: 2.4 mg/m <sup>3</sup> TWA: 0.1 mg/m <sup>3</sup> STEL: 18 mg/m <sup>3</sup> STEL: 7.2 mg/m <sup>3</sup> STEL: 0.3 mg/m <sup>3</sup>
Ethanol 64-17-5	-	TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup> STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup>
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> *	TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> Sk*
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

Chemical name	European Union	Ireland	United Kingdom
Methyl alcohol 67-56-1	-	15 mg/L (urine - Methanol end of shift)	-

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
3-aminopropyltriethoxysilane (919-30-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	59 mg/m <sup>3</sup>	
worker Short term Systemic health effects	Inhalation	59 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Dermal	8.3 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	8.3 mg/kg bw/d	

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 8/24



Opgesteld door: NB	Bekrachtigd door: SL
--------------------	----------------------

<b>Dodecamethylcyclohexasiloxane [D6] (540-97-6)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	11 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	1.22 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	6.1 mg/m <sup>3</sup>	
<b>Decamethylcyclopentasiloxane [D5] (541-02-6)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Short term Systemic health effects	Inhalation	9.7 mg/m <sup>3</sup>	
worker Short term Local health effects	Inhalation	24.2 mg/m <sup>3</sup>	
worker Long term Systemic health effects	Inhalation	97.3 mg/m <sup>3</sup>	
worker Long term Local health effects	Inhalation	24.2 mg/m <sup>3</sup>	
<b>Titanium dioxide (13463-67-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Local health effects	Inhalation	10 mg/m <sup>3</sup>	
<b>Octamethylcyclotetrasiloxane [D4] (556-67-2)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term	Inhalation	73 mg/m <sup>3</sup>	
Systemic health effects			



# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 9/24



Opgesteld door: NB	Bekrachtigd door: SL
--------------------	----------------------

Derived No Effect Level (DNEL)			
3-aminopropyltriethoxysilane (919-30-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	17 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Inhalation	17.4 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Dermal	5 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	5 mg/kg bw/d	

Dodecamethylcyclohexasiloxane [D6] (540-97-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	2.7 mg/m <sup>3</sup>	
Consumer Long term Local health effects	Inhalation	0.3 mg/m <sup>3</sup>	
Consumer Short term Local health effects	Inhalation	1.5 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Oral	1.7 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	1.7 mg/kg bw/d	

Decamethylcyclopentasiloxane [D5] (541-02-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Short term Systemic health effects	Inhalation	17.3 mg/m <sup>3</sup>	
Consumer Short term Systemic health effects	Oral	5 mg/kg bw/d	
Consumer Short term Local health effects	Inhalation	4.3 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Inhalation	17.3 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Oral	5 mg/kg bw/d	
Consumer Long term Local health effects	Inhalation	4.3 mg/m <sup>3</sup>	

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 10/24



Opgesteld door: NB	Bekrachtigd door: SL
--------------------	----------------------

<b>Titanium dioxide (13463-67-7)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Oral	700 mg/kg bw/d	

<b>Octamethylcyclotetrasiloxane [D4] (556-67-2)</b>			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	13 mg/m <sup>3</sup>	
Consumer Long term Systemic health effects	Oral	3.7 mg/kg bw/d	

**Predicted No Effect Concentration (PNEC)**

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 11/24



Opgesteld door: NB

Bekrachtigd door: SL

## Predicted No Effect Concentration (PNEC)

### 3-aminopropyltriethoxysilane (919-30-2)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.33 mg/l
Marine water	0.033 mg/l

### Dodecamethylcyclohexasiloxane [D6] (540-97-6)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Sewage treatment plant	>1 mg/l
Freshwater sediment	13 mg/kg dry weight
Marine sediment	1.3 mg/kg dry weight
Soil	3.77 mg/kg dry weight
Sewage treatment plant	>10 mg/l

### Decamethylcyclopentasiloxane [D5] (541-02-6)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	>0.0012 mg/l
Marine water	>0.00012 mg/l
Freshwater sediment	2.4 mg/kg
Freshwater sediment	2.4 mg/kg
Soil	1.1 mg/kg
Sewage treatment plant	>10 mg/l

### Titanium dioxide (13463-67-7)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Marine water	0.0184 mg/l
Freshwater sediment	1000 mg/kg
Freshwater	0.184 mg/l
Marine sediment	100 mg/kg
Soil	100 mg/kg
Microorganisms in sewage treatment	100 mg/l
Freshwater - intermittent	0.193 mg/l

### Octamethylcyclotetrasiloxane [D4] (556-67-2)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.0015 mg/l
Marine water	0.00015 mg/l
Freshwater sediment	3 mg/kg
Marine sediment	0.3 mg/kg
Soil	0.54 mg/kg

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 12/24



Opgesteld door: NB

Bekrachtigd door: SL

Sewage treatment plant

10 mg/l

## 8.2. Exposure controls

### **Engineering controls**

Ensure adequate ventilation, especially in confined areas.

### **Personal protective equipment**

#### **Eye/face protection**

Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

#### **Hand protection**

Wear suitable gloves. Recommended Use: Neoprene™. Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 480 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Gloves must conform to standard EN 374

#### **Skin and body protection**

None under normal use conditions.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Ensure adequate ventilation, especially in confined areas.

#### **Recommended filter type:**

Organic gases and vapours filter conforming to EN 14387. White. Brown.

### **Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 13/24



Opgesteld door: NB

Bekrachtigd door: SL

## SECTION 9: Physical and chemical properties

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

Physical state	Solid	
Appearance	Paste	
Colour	See section 1 for more information	
Odour	Characteristic.	
Odour threshold	No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	> 100 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	.	Not applicable. Insoluble in water.
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	> 21 mm <sup>2</sup> /s	
Dynamic viscosity	No data available	
Water solubility	No data available. Product cures with moisture	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.01 g/cm <sup>3</sup>	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

### 9.2. Other information

Solid content (%)	No information available	
VOC content		No data available

#### 9.2.1. Information with regards to physical hazard classes

Not applicable

#### 9.2.2. Other safety characteristics

No information available

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 14/24



Opgesteld door: NB

Bekrachtigd door: SL

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

### 10.1. Reactivity

**Reactivity** Product cures with moisture.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

#### **Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

### 10.4. Conditions to avoid

**Conditions to avoid** Product cures with moisture. Protect from moisture. Exposure to air or moisture over prolonged periods. Do not freeze. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

**Incompatible materials** Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Small amounts of ethanol (CAS 64-17-5) are formed by hydrolysis and released upon curing.

## **SECTION 11: Toxicological information**

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

#### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Based on available data, the classification criteria are not met.

**Eye contact** Based on available data, the classification criteria are not met.

**Skin contact** May cause sensitisation in susceptible persons.

**Ingestion** Based on available data, the classification criteria are not met.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 15/24



Opgesteld door: NB	Bekrachtigd door: SL
--------------------	----------------------

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Acute toxicity

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	39,289.90 mg/kg
ATEmix (dermal)	63,710.70 mg/kg
ATEmix (inhalation-gas)	>20000 ppm
ATEmix (inhalation-dust/mist)	>5 mg/l
ATEmix (inhalation-vapour)	>20 mg/l

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Silica, amorphous	=7900 mg/kg (Rattus)	> 5000 mg/kg (Oryctolagus cuniculus)	>2.2 mg/L (Rattus) 1 h
2-Pentandione, O,O',O''-(methylsilylidyne)trioxime	LD50 =1234 mg/kg bw (Rattus)(OECD guideline 425)	LD50 > 2000 mg/kg (Rattus) EU Method B.3	-
3-aminopropyltriethoxysilane	LD50 = 1490 mg/kg (Rattus, female) EPA OTS 798.1175 LD50 = 2690 mg/kg (Rattus, male) EPA OTS 798.1175	LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100	LC50 >144 mg/L (6h) Rattus (Vapour)
Dodecamethylcyclohexasiloxane [D6]	>50 g/kg (Rattus)	> 2000 mg/kg ( Rat )	-
Decamethylcyclopentasiloxane [D5]	>24134 mg/kg (Rattus)	> 16 mL/kg (Oryctolagus cuniculus)	= 8.67 mg/L ( Rat ) 4 h
Titanium dioxide	>10000 mg/kg (Rattus)	LD50 > 5000 mg/Kg	= 5.09 mg/L ( Rattus ) 4 h
Octamethylcyclotetrasiloxane [D4]	LD50 > 4800 mg/kg (Rattus) OECD 401	LD50 > 2400 mg/kg (Rattus) OECD 402	=36 g/m <sup>3</sup> (Rattus) 4 h
2-octyl-2H-isothiazol-3-one [OIT]	=125 mg/kg (Rattus)	= 690 mg/kg (Oryctolagus cuniculus)	-

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Non-irritant

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Corrosive

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

Titanium dioxide (13463-67-7)

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 16/24



Opgesteld door: NB

Bekrachtigd door: SL

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	Eye			Non-irritant

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

**Respiratory or skin sensitisation** No classification is proposed, based on conclusive negative data. OECD Test No. 406: Skin Sensitisation. No sensitisation responses were observed. May cause sensitisation in susceptible persons.

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	No sensitisation responses were observed

Titanium dioxide (13463-67-7)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Not a skin sensitiser

Octamethylcyclotetrasiloxane [D4] (556-67-2)

2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse		sensitising

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.



# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 17/24



Opgesteld door: NB

Bekrachtigd door: SL

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Octamethylcyclotetrasiloxane [D4]	Repr. 2

**STOT - single exposure** Based on available data, the classification criteria are not met.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### **11.2.1. Endocrine disrupting properties**

**Endocrine disrupting properties** No information available.

### **11.2.2. Other information**

**Other adverse effects** No information available.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
 VVFK(E) : 08/1516333  
 Rev : G  
 Page : 18/24



Opgesteld door: NB	Bekrachtigd door: SL
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## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Silica, amorphous 7631-86-9	EC50: =440mg/L (72h, Pseudokirchneriella subcapitata)	LC50: =5000mg/L (96h, Brachydanio rerio)	-	EC50: =7600mg/L (48h, Ceriodaphnia dubia)		
2-Pentandione, O,O',O''-(methylsilylydine)trioxime 37859-55-5	EC50 (72h) = 88 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) >113 mg/L (Oncorhynchus mykiss) Static (OECD Guideline 203)	-	EC50 (48h) >100 mg/L (Daphnia magna) static (OECD guideline 202)		
3-aminopropyltriethoxy silane 919-30-2	EC50 (72h) >1000 mg/L Green algae (desmodesmus subspicatus) (OECD TG 201)	LC50 (96h) >934 mg/L (Brachydanio rerio) (OECD TG 203)	-	EC50 (48h) =331 mg/L Daphnia magna (OECD TG 202)		
Dodecamethylcyclohexasiloxane [D6] 540-97-6	-	90 d NOEC ≥14 µg/L, Oncorhynchus mykiss	-	NOEC ≥4.6 µg/L (21d) OECD 211 Daphnia Magna		
Titanium dioxide 13463-67-7	LC50 (96h) >10000 mg/l (Cyprinodon variegatus) OECD 203	-	-	-		
Octamethylcyclotetrasiloxane [D4] 556-67-2	-	LC50: >1000mg/L (96h, Lepomis macrochirus) LC50: >500mg/L (96h, Brachydanio rerio)	-	EC50: =25.2mg/L (24h, Daphnia magna)		10
2-octyl-2H-isothiazol-3-one [OIT] 26530-20-1	EC50(72h) = 0.084 mg/L (Scenedesmus subspicatus) (OECD 201)	LC50 (96h) = 0.036 mg/L (Oncorhynchus mykiss) (OECD 203)	-	EC50 (48h) =0.42 mg/L (OECD 202)	100	100

### 12.2. Persistence and degradability

**Persistence and degradability** No information available.

Silica, amorphous (7631-86-9)

Method	Exposure time	Value	Results
			The methods for determining biodegradability are not applicable to inorganic substances

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 19/24



Opgesteld door: NB

Bekrachtigd door: SL

## Dodecamethylcyclohexasiloxane [D6] (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	4.5%	Not readily biodegradable

## Decamethylcyclopentasiloxane [D5] (541-02-6)

Method	Exposure time	Value	Results
OECD 310	28 days	0.14%	Not readily biodegradable

## Octamethylcyclotetrasiloxane [D4] (556-67-2)

### 2-octyl-2H-isothiazol-3-one [OIT] (26530-20-1)

Method	Exposure time	Value	Results
OECD Test No. 309: Aerobic Mineralization in Surface Water - Simulation Biodegradation Test		Half-life 0.6-1.4 d	Readily biodegradable

## 12.3. Bioaccumulative potential

### Bioaccumulation

#### Component Information

Chemical name	Partition coefficient
2-Pentandione, O,O',O''-(methylsilyldiylidene)trioxime	1.25
3-aminopropyltriethoxysilane	1.7
Dodecamethylcyclohexasiloxane [D6]	8.87
Decamethylcyclopentasiloxane [D5]	8.02
Octamethylcyclotetrasiloxane [D4]	6.49
2-octyl-2H-isothiazol-3-one [OIT]	2.92

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 20/24



Opgesteld door: NB

Bekrachtigd door: SL

## 12.4. Mobility in soil

Mobility in soil No information available.

## 12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
Silica, amorphous	The substance is not PBT / vPvB PBT assessment does not apply
2-Pentandione, O,O',O''-(methylsilylydine)trioxime	The substance is not PBT / vPvB
3-aminopropyltriethoxysilane	The substance is not PBT / vPvB
Dodecamethylcyclohexasiloxane [D6]	PBT / vPvB substance
Decamethylcyclopentasiloxane [D5]	PBT / vPvB substance
Titanium dioxide	The substance is not PBT / vPvB PBT assessment does not apply
Octamethylcyclotetrasiloxane [D4]	PBT & vPvB
2-octyl-2H-isothiazol-3-one [OIT]	The substance is not PBT / vPvB

## 12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

Component Information		
Octamethylcyclotetrasiloxane [D4] (556-67-2)		
Method	Results	Species
Endocrine disrupting properties in accordance with the criteria set out in Commission	Negative.	
Delegated Regulation (EU) 2017/2100(3) or Commission Regulation (EU) 2018/605(4).		

## 12.7. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable.

**Contaminated packaging** Handle contaminated packages in the same way as the product itself.

**European Waste Catalogue** 08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

**Other information** Waste codes should be assigned by the user based on the application for which the product was used.

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 21/24



Opgesteld door: NB

Bekrachtigd door: SL

## **SECTION 14: Transport information**

### Land transport (ADR/RID)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

### IMDG

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Marine pollutant	NP
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	
Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable

### Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

## **Section 15: REGULATORY INFORMATION**

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

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 22/24



Opgesteld door: NB

Bekrachtigd door: SL

## European Union

### Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

#### **SVHC: Substances of Very High Concern for Authorisation:**

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No
Dodecamethylcyclohexasiloxane [D6]	540-97-6
Decamethylcyclopentasiloxane [D5]	541-02-6
Octamethylcyclotetrasiloxane [D4]	556-67-2

#### **EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction**

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Chemical name	CAS No	Restricted substance per REACH Annex XVII
Decamethylcyclopentasiloxane [D5]	541-02-6	70.
Octamethylcyclotetrasiloxane [D4]	556-67-2	70. 75.

#### **Substance subject to authorisation per REACH Annex XIV**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

#### **Biocidal Products Regulation (EU) No 528/2012 (BPR)**

This product contains a biocidal product for the preservation of the dry film Contains: 2-octyl-2H-isothiazol-3-one [OIT]

#### **Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not applicable

#### **Persistent Organic Pollutants**

Not applicable

## National regulations

### 15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this mixture

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 23/24



Opgesteld door: NB

Bekrachtigd door: SL

## **SECTION 16: Other information**

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

#### **Full text of H-Statements referred to under section 3**

H226 - Flammable liquid and vapour  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H311 - Toxic in contact with skin  
H314 - Causes severe skin burns and eye damage  
H317 - May cause an allergic skin reaction  
H318 - Causes serious eye damage  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled

# Safety data sheets Ferney Group BV

Date : 09-07-2024  
VVFK(E) : 08/1516333  
Rev : G  
Page : 24/24



Opgesteld door: NB

Bekrachtigd door: SL

H361f - Suspected of damaging fertility  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

## Notes relating to the identification, classification and labelling of substances

**Note V:** If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied

**Note W:** It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung

## Notes relating to the classification and labelling of mixtures

**Note 10:** The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm

## Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

## Key literature references and sources for data

No information available

**Prepared By** Product Safety & Regulatory Affairs

**Revision date** 07-Mar-2023

## Indication of changes

**Revision note** Not applicable.

**Training Advice** No information available

**Further information** No information available

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.