

# SAFETY DATA SHEET



Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878

## NOVA PTFE CARE

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

#### 1.1. Product identifier

**Product name** : NOVA PTFE CARE  
**Registration number REACH** : Not applicable (mixture)  
**Product type REACH** : Mixture

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

##### 1.2.1 Relevant identified uses

Oil: additive

##### 1.2.2 Uses advised against

No uses advised against known

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

##### Supplier of the safety data sheet

Novatio\*  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 25 76 40  
☎ +32 14 22 02 66  
info@novatio.be  
\*NOVATIO is a registered trademark of Novatech International N.V.

##### Manufacturer of the product

Novatech International N.V.  
Industrielaan 5B  
B-2250 Olen  
☎ +32 14 85 97 37  
☎ +32 14 85 97 38  
info@novatech.be

#### 1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch) :  
+32 14 58 45 45 (BIG)

### SECTION 2: Hazards identification

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

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

#### 2.2. Label elements

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

##### Supplemental information

EUH208 Contains: benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

#### 2.3. Other hazards

Caution! Substance is absorbed through the skin

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

# NOVA PTFE CARE

## 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based 01-2119474878-16	72623-86-0 276-737-9	C≤50%	Asp. Tox. 1; H304	(1)(2)(6)(10)	Constituent	
white mineral oil (petroleum) 01-2119487078-27	8042-47-5 232-455-8	C≤10%	Asp. Tox. 1; H304	(1)(2)(10)	Constituent	
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts 01-2119493626-26	84605-29-8 283-392-8	C≤1%	Eye Dam. 1; H318 Skin Irrit. 2; H315 Aquatic Chronic 2; H411 Eye Dam. 1; H318: C>12.5%, (ECHA) Eye Irrit. 2; H319: 10%< C≤12.5%, (ECHA) Skin Irrit. 2; H315: C≥6.25%, (ECHA)	(1)(10)	Constituent	
benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts	70024-69-0 274-263-7	C≤0.1%	Skin Sens. 1B; H317	(1)(10)	Constituent	

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

(10) Subject to restrictions of Annex XVII of Regulation (EC) No. 1907/2006

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

If you feel unwell, consult a doctor/medical service.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

#### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water.

#### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

#### After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

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

#### 4.2.1 Acute symptoms

##### After inhalation:

No effects known.

##### After skin contact:

No effects known.

##### After eye contact:

No effects known.

##### After ingestion:

Headache. Abdominal pain. Diarrhoea. Vomiting.

#### 4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher.

Major fire: Class B foam (not alcohol-resistant).

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion.

Major fire: Water; risk of puddle expansion.

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

Upon combustion: formation of CO, CO2 and small quantities of phosphorus oxides, sulphur oxides, zinc oxide.

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## 5.3. Advice for firefighters

### 5.3.1 Instructions:

No specific fire-fighting instructions required.

### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

No naked flames. Exposure to fire/heat: keep upwind. Exposure to fire/heat: have neighbourhood close doors and windows.

#### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034).

Suitable protective clothing

See section 8.2

### 6.2. Environmental precautions

Contain released product.

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

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

See section 13.

## SECTION 7: Handling and storage

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 7.1. Precautions for safe handling

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Keep container tightly closed.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Meet the legal requirements. Keep container in a well-ventilated place. Keep out of direct sunlight. Protect against frost.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, reducing agents, (strong) acids, (strong) bases.

#### 7.2.3 Suitable packaging material:

No data available

#### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

If applicable and available, exposure scenarios are attached in annex. See information supplied by the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 Occupational exposure

##### a) Occupational exposure limit values

If limit values are applicable and available these will be listed below.

#### Belgium

Huiles minérales (brouillards)	Time-weighted average exposure limit 8 h	5 mg/m <sup>3</sup>
	Short time value	10 mg/m <sup>3</sup>

#### The Netherlands

Olienevel (minerale olie)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	5 mg/m <sup>3</sup>
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#### Germany

Weißes Mineralöl (Erdöl)	Time-weighted average exposure limit 8 h (TRGS 900)	5 mg/m <sup>3</sup> (1)
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(1) Alveolengängige Fraktion; UF: 4 (II)

#### USA (TLV-ACGIH)

Mineral oil, excluding metal working fluids: Poorly and mildly refined	<i>Exposure by all routes should be carefully controlled to levels as low as possible</i>	
Mineral oil, excluding metal working fluids: Pure, highly and severely refined	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	5 mg/m <sup>3</sup> (1)

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(1) (I): Inhalable fraction

**b) National biological limit values**

If limit values are applicable and available these will be listed below.

**8.1.2 Sampling methods**

Product name	Test	Number
Oil Mist (Mineral)	NIOSH	5026

**8.1.3 Applicable limit values when using the substance or mixture as intended**

If limit values are applicable and available these will be listed below.

**8.1.4 Threshold values**

**DNEL/DMEL - Workers**

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.73 mg/m <sup>3</sup>	
	Long-term local effects inhalation	5.58 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	0.97 mg/kg bw/day	

white mineral oil (petroleum)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	164.56 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	217.05 mg/kg bw/day	

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	8.31 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	12.1 mg/kg bw/day	

**DNEL/DMEL - General population**

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	0.74 mg/kg bw/day	

white mineral oil (petroleum)

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	34.78 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	93.02 mg/kg bw/day	
	Long-term systemic effects oral	25 mg/kg bw/day	

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.11 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	6.1 mg/kg bw/day	
	Long-term systemic effects oral	0.24 mg/kg bw/day	

**PNEC**

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Compartments	Value	Remark
Oral	9.33 mg/kg food	

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Compartments	Value	Remark
Fresh water	4 µg/l	
Fresh water (intermittent releases)	45 µg/l	
Marine water	4.6 µg/l	
STP	100 mg/l	
Fresh water sediment	0.022 mg/kg sediment dw	
Marine water sediment	0.002 mg/kg sediment dw	
Soil	0.002 mg/kg soil dw	
Oral	10.67 mg/kg food	

**8.1.5 Control banding**

If applicable and available it will be listed below.

**8.2. Exposure controls**

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

**8.2.1 Appropriate engineering controls**

Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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

Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

b) Hand protection:

Protective gloves against chemicals (EN 374).

Materials	Measured breakthrough time	Thickness	Protection index	Remark
nitrile rubber	> 480 minutes	0.35 mm	Class 6	

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## c) Eye protection:

Eye protection not required in normal conditions.

## d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

## 8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

## SECTION 9: Physical and chemical properties

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

Physical form	Liquid
Viscosity	Oily
Colour	No data available on colour
Odour	Characteristic odour
Odour threshold	No data available in the literature
Melting point	-48 °C
Boiling point	300 °C
Flammability	Not classified as flammable
Explosion limits	No data available in the literature
Flash point	233 °C
Auto-ignition temperature	247 °C
Decomposition temperature	No data available in the literature
pH	No data available in the literature
Kinematic viscosity	173 mm <sup>2</sup> /s ; 20 °C
Dynamic viscosity	150 mPa.s ; 20 °C
Solubility	Water : insoluble
Log Kow	Not applicable (mixture)
Vapour pressure	No data available in the literature
Absolute density	870 kg/m <sup>3</sup> ; 20 °C
Relative density	0.87 ; 20 °C
Relative vapour density	No data available in the literature
Particle size	Not applicable (liquid)

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Heating increases the fire hazard.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

#### Precautionary measures

Keep away from naked flames/heat.

### 10.5. Incompatible materials

Oxidizing agents, reducing agents, (strong) acids, (strong) bases.

### 10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO<sub>2</sub> and small quantities of phosphorus oxides, sulphur oxides, zinc oxide.

## SECTION 11: Toxicological information

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

#### 11.1.1 Test results

#### Acute toxicity

#### NOVA PTFE CARE

No (test) data on the mixture available

Judgement is based on the relevant ingredients

# NOVA PTFE CARE

## Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	> 5000 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50	OECD 402	> 5000 mg/kg bw	24 h	Rabbit (male / female)	Read-across	
Inhalation (aerosol)	LC50	OECD 403	> 5.53 mg/l	4 h	Rat (male / female)	Read-across	

## white mineral oil (petroleum)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male / female)	Read-across	
Inhalation (aerosol)	LC50	Equivalent to OECD 403	> 5 mg/l	4 h	Rat (male / female)	Read-across	

## Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	3100 mg/kg bw - 3200 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2002 mg/kg bw	25 h	Rat (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 2.3 mg/l	4 h	Rat (male / female)	Experimental value	

### Conclusion

Not classified for acute toxicity

### Corrosion/irritation

#### NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across	Single treatment
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 48; 72 hours	Rabbit	Read-across	

#### white mineral oil (petroleum)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		24; 48; 72 hours	Rabbit	Read-across	Single treatment
Skin	Not irritating	Equivalent to OECD 404	24 week(s)	24; 48; 72 hours	Rabbit	Read-across	

#### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Serious eye damage	16 CFR 1500.42		24; 48; 72 hours	Rabbit	Experimental value	Single treatment without rinsing
Skin	Irritating	Equivalent to OECD 404	4 h	24; 72 hours	Guinea pig	Experimental value	

### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

### Respiratory or skin sensitisation

#### NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (male)	Read-across	

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## white mineral oil (petroleum)

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (male)	Read-across	

## Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406			Guinea pig (male / female)	Experimental value	

## benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Sensitizing; category 1B					Literature study	

### **Conclusion**

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

### **Specific target organ toxicity**

#### NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	LOAEL	Equivalent to OECD 408	125 mg/kg bw/day	Overall effects	13 weeks (5 days / week)	Rat (male)	Read-across	
Dermal	NOAEL	OECD 410	1000 mg/kg bw/day	No effect	4 weeks (6h / day, 3 days / week)	Rabbit (male / female)	Read-across	
Inhalation (aerosol)	NOAEC	Equivalent to OECD 412	> 980 mg/m <sup>3</sup> air	No effect	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across	

## white mineral oil (petroleum)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (diet)	NOAEL	OECD 453	≥ 1200 mg/kg bw/day	No effect	24 month(s)	Rat (male / female)	Read-across	
Dermal	NOAEL systemic effects	OECD 411	≥ 2000 mg/kg bw/day	No adverse systemic effects	13 weeks (daily)	Rat (male / female)	Read-across	
Dermal	NOAEL local effects	OECD 411	< 125 mg/kg bw/day	Skin (no effect)	13 weeks (daily)	Rat (male / female)	Read-across	
Inhalation (aerosol)	NOEL	Equivalent to OECD 412	50 mg/m <sup>3</sup>	Lungs (no effect)	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across	
Inhalation (aerosol)	LOEL	Equivalent to OECD 412	210 mg/m <sup>3</sup>	Lungs (weight changes)	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across	

## Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Oral (stomach tube)	NOEL	OECD 422	40 mg/kg bw/day	No effect		Rat (male / female)	Experimental value	
Oral (stomach tube)	NOAEL systemic effects	OECD 422	160 mg/kg bw/day	No adverse systemic effects		Rat (male / female)	Experimental value	
Dermal							Data waiving	
Inhalation							Data waiving	

### **Conclusion**

Not classified for subchronic toxicity

### **Mutagenicity (in vitro)**

#### NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Result	Method	Test substrate	Effect	Value determination	Remark
Positive with metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Read-across	
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)		Read-across	

white mineral oil (petroleum)

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Read-across	
Negative with metabolic activation, negative without metabolic activation	OECD 473	Chinese hamster ovary (CHO)	No effect	Read-across	

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Negative without metabolic activation, positive with metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	

**Mutagenicity (in vivo)**

NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Intraperitoneal)	OECD 474		Mouse (male / female)	No effect	Read-across	Single intraperitoneal injection

white mineral oil (petroleum)

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Intraperitoneal)	OECD 474		Mouse (male / female)	Bone marrow (no effect)	Read-across	Single intraperitoneal injection

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Result	Method	Exposure time	Test substrate	Organ/Effect	Value determination	Remark
Negative (Intraperitoneal)	OECD 474		Mouse (male / female)	No effect	Experimental value	Single intraperitoneal injection

**Conclusion**

Not classified for mutagenic or genotoxic toxicity

**Carcinogenicity**

NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Dermal	Dose level	Equivalent to OECD 451	0.2 ml - 0.25 ml	No carcinogenic effect	78 week(s)	Mouse (female)	Read-across	

white mineral oil (petroleum)

Route of exposure	Parameter	Method	Value	Organ/Effect	Exposure time	Species	Value determination	Remark
Inhalation (aerosol)	Dose level	Carcinogenic toxicity study	100 mg/m <sup>3</sup>	No carcinogenic effect	68 weeks (6h / day, 7 days / week)	Mouse (male)	Read-across	
Dermal	NOEL	OECD 453	≥ 75 µl/week	No carcinogenic effect	104 weeks (3 times / week)	Mouse (male)	Read-across	
Oral (diet)	NOAEL	OECD 453	≥ 1200 mg/kg bw/day	No carcinogenic effect	24 month(s)	Rat (male / female)	Read-across	

**Conclusion**

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Not classified for carcinogenicity

## Reproductive toxicity

### NOVA PTFE CARE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 5000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Read-across	
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	> 5000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Read-across	
Effects on fertility (Oral (stomach tube))	NOAEL	OECD 421	≥ 1000 mg/kg bw/day		Rat (male / female)	No effect	Read-across	

### white mineral oil (petroleum)

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 5000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Read-across	
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 5000 mg/kg bw/day	14 days (gestation, daily)	Rat	No effect	Read-across	
Effects on fertility (Dermal)	NOAEL	Equivalent to OECD 415	≥ 2000 mg/kg bw/day	≥ 13 weeks (5 days / week)	Rat (male / female)	No effect	Read-across	

### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

Category	Parameter	Method	Value	Exposure time	Species	Effect	Value determination	Remark
Developmental toxicity (Oral (stomach tube))	NOEL	OECD 422	160 mg/kg bw/day		Rat	No effect	Experimental value	
Effects on fertility (Oral (stomach tube))	NOEL	OECD 422	160 mg/kg bw/day		Rat (male / female)	No effect	Experimental value	

## Conclusion

Not classified for reprotoxic or developmental toxicity

## Aspiration hazard

### NOVA PTFE CARE

Judgement is based on the relevant ingredients

Not classified for aspiration toxicity

## Toxicity other effects

### NOVA PTFE CARE

No (test)data on the mixture available

## Chronic effects from short and long-term exposure

### NOVA PTFE CARE

Skin rash/inflammation.

## 11.2. Information on other hazards

No evidence of endocrine disrupting properties

## SECTION 12: Ecological information

### 12.1. Toxicity

#### NOVA PTFE CARE

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

# NOVA PTFE CARE

## white mineral oil (petroleum)

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 100 mg/l WAF	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	LL50	OECD 202	> 100 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	NOEL	OECD 201	≥ 100 mg/l WAF	72 h	Pseudokirchneriella subcapitata	Static system	Fresh water	Weight of evidence; Growth rate
Long-term toxicity fish	NOEL		≥ 1000 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Long-term toxicity aquatic crustacea	NOEL	Equivalent to OECD 211	10 mg/l WAF	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; GLP

## Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	4.5 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	23 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	24 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.4 mg/l	21 day(s)	Daphnia magna	Static system	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro-organisms	EC50	OECD 209	> 10000 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value; GLP

### Conclusion

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

## 12.2. Persistence and degradability

### white mineral oil (petroleum)

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	31 %; GLP	28 day(s)	Read-across

### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

#### Biodegradation water

Method	Value	Duration	Value determination
OECD 301B	1.5 %; GLP	28 day(s)	Experimental value

### Conclusion

#### Water

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

### NOVA PTFE CARE

#### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

### Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

#### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	8137 l/kg; Fresh weight			Estimated value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		6.43		Estimated value

### white mineral oil (petroleum)

#### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	1216 l/kg; Fresh weight			Estimated value

#### Log Kow

Method	Remark	Value	Temperature	Value determination
		5.2		Experimental value

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Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

## Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		0.56	22 °C	Experimental value

benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts

## BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBFAF v3.01	70.79 l/kg; Fresh weight			Estimated value

## Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		18.05		Estimated value

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	4.4	Calculated value

white mineral oil (petroleum)

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.6	Calculated value

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Fugacity Model Level III	32 %		0.87 %	1.3 %	66 %	Calculated value

benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	11	Calculated value

### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Fugacity Model Level III	0.114 %		0.00018 %	87.5 %	12.4 %	Calculated value

## Conclusion

Contains component(s) that adsorb(s) into the soil  
Contains component(s) with potential for mobility in the soil

## 12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

## 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

## 12.7. Other adverse effects

### NOVA PTFE CARE

#### Greenhouse gases

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based

#### Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

#### Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

#### Groundwater

Groundwater pollutant

# NOVA PTFE CARE

white mineral oil (petroleum)

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## Groundwater

Groundwater pollutant

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## Groundwater

Groundwater pollutant

benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts

## Greenhouse gases

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 2024/573)

## Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No 2024/590)

## SECTION 13: Disposal considerations

The information in this section is a general description. If applicable and available, exposure scenarios are attached in annex. Always use the relevant exposure scenarios that correspond to your identified use.

### 13.1. Waste treatment methods

#### 13.1.1 Provisions relating to waste

##### European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997. The waste code must be assigned by the user, preferably in consultation with the (environmental) authorities concerned.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

No data available

## SECTION 14: Transport information

### Road (ADR), Rail (RID), Inland waterways (ADN), Sea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)

#### 14.1. UN number or ID number

Transport	Not subject
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#### 14.2. UN proper shipping name

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

Hazard identification number	
Class	
Classification code	

#### 14.4. Packing group

Packing group	
Labels	

#### 14.5. Environmental hazards

Environmentally hazardous substance mark	no
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#### 14.6. Special precautions for user

Special provisions	
Limited quantities	

#### 14.7. Maritime transport in bulk according to IMO instruments

Annex II of MARPOL 73/78	Not applicable, based on available data
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## SECTION 15: Regulatory information

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

#### European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
0 g/l	
0 %	

Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

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# NOVA PTFE CARE

**REACH Annex XVII - Restriction**

Contains component(s) subject to restrictions of Annex XVII of Regulation (EC) No 1907/2006: restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
<ul style="list-style-type: none"> <li>· Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</li> <li>· white mineral oil (petroleum)</li> <li>· Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts</li> <li>· benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts</li> </ul>	<p>Liquid substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008:</p> <p>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;</p> <p>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;</p> <p>(c) hazard class 4.1;</p> <p>(d) hazard class 5.1.</p>	<p>1. Shall not be used in:</p> <ul style="list-style-type: none"> <li>— ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>— tricks and jokes,</li> <li>— games for one or more participants, or any article intended to be used as such, even with ornamental aspects,</li> </ul> <p>2. Articles not complying with paragraph 1 shall not be placed on the market.</p> <p>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</p> <ul style="list-style-type: none"> <li>— can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>— present an aspiration hazard and are labelled with H304,</li> </ul> <p>4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).</p> <p>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:</p> <p>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";</p> <p>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</p> <p>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.</p>
<ul style="list-style-type: none"> <li>· Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based</li> </ul>	<p>Substances falling within one or more of the following points:</p> <p>(a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008:</p> <ul style="list-style-type: none"> <li>— carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances classified due to effects only following exposure by inhalation</li> <li>— reproductive toxicant category 1A, 1B or 2 but excluding any such substances classified due to effects only following exposure by inhalation</li> <li>— skin sensitiser category 1, 1A or 1B</li> <li>— skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2</li> <li>— serious eye damage category 1 or eye irritant category 2</li> </ul> <p>(b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council</p> <p>(c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex.</p> <p>The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.</p>	<p>Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081</p>

**National legislation Belgium**

**NOVA PTFE CARE**

No data available

**white mineral oil (petroleum)**

<p>Agents cancérigènes, mutagènes et reprotoxiques et aux agents possédant des propriétés perturbant le système endocrinien (Code du bien-être au travail, Livre VI, titre 2)</p>	<p>huiles minérales; VI.2.2.; Liste des procédés au cours desquels une substance ou un mélange se dégage; Travaux entraînant une exposition cutanée à des huiles minérales qui ont été auparavant utilisées dans des moteurs à combustion interne pour lubrifier et refroidir les pièces mobiles du moteur.</p>
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**National legislation The Netherlands**

**NOVA PTFE CARE**

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Waterbezwaarlijkheid	A (4); Algemene Beoordelingsmethodiek (ABM)
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## National legislation France

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No data available

## National legislation Germany

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WGK	1; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
TA-Luft	5.2.5/l
white mineral oil (petroleum)	
TA-Luft	5.2.5/l
TRGS900 - Risiko der Fruchtschädigung	Weißes Mineralöl (Erdöl); Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts	
TA-Luft	5.2.5
benzenesulphonic acid, mono-C16-24-alkyl derivs., calcium salts	
TA-Luft	5.2.5/l

## National legislation Austria

NOVA PTFE CARE

No data available

## National legislation United Kingdom

NOVA PTFE CARE

No data available

## Other relevant data

NOVA PTFE CARE

No data available

Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	
TLV - Carcinogen	Mineral oil, excluding metal working fluids: Poorly and mildly refined; A2
	Mineral oil, excluding metal working fluids: Pure, highly and severely refined; A4
white mineral oil (petroleum)	
TLV - Carcinogen	Mineral oil, excluding metal working fluids: Pure, highly and severely refined; A4

## 15.2. Chemical safety assessment

No chemical safety assessment is required for a mixture.

## SECTION 16: Other information

### Full text of any H- and EUH-statements referred to under section 3:

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H411 Toxic to aquatic life with long lasting effects.  
EUH208 Contains a sensitising substance. May produce an allergic reaction.  
EUH210 Safety data sheet available on request.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
ATE	Acute Toxicity Estimate
BCF	Bioconcentration Factor
BEI	Biological Exposure Indices
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC10	Effect Concentration 10 %
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
GLP	Good Laboratory Practice
LC0	Lethal Concentration 0 %
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
LOAEC/LOAEL	Lowest Observed Adverse Effect Concentration/Lowest Observed Adverse Effect Level
NOAEC/NOAEL	No Observed Adverse Effect Concentration/No Observed Adverse Effect Level
NOEC/NOEL	No Observed Effect Concentration/No Observed Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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# NOVA PTFE CARE

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.