# **SAFETY DATA SHEET**





NOVA PTFE OIL AEROSOL

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

#### 1.1. Product identifier

Product name Registration number REACH Product type REACH : NOVA PTFE OIL AEROSOL : Not applicable (mixture)

: Mixture

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

1.2.1 Relevant identified uses

Lubricant

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

#### Manufacturer of the product

#### 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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008					
Class	Category	Hazard statements			
Aerosol	category 1	H222: Extremely flammable aerosol.			
Aerosol	category 1	H229: Pressurised container: May burst if heated.			
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.			

#### 2.2. Label elements

Signal word	Danger		
H-statements			
H222	Extremely flammable aerosol.		
H229	Pressurised container: May burst if heated.		
H412	Harmful to aquatic life with long lasting effects		
P-statements			
P210	Keep away from heat, hot surfaces, sparks, op	en flames and other ignition sources. No smoking.	
P211	Do not spray on an open flame or other ignitio	n source.	
P251	Do not pierce or burn, even after use.		
P273	Avoid release to the environment.		
P410 + P412	Protect from sunlight. Do not expose to tempe	ratures exceeding 50 °C/ 122°F.	
Supplemental information	n		
EUH066	Repeated exposure may cause skin dryness or crack	ing.	
Created by: Brandweerinformatiecer	ntrum voor gevaarlijke stoffen vzw (BIG)	Publication date: 2011-03-06	-en
Technische Schoolstraat 43 A, B-244	0 Geel	Date of revision: 2019-04-04	134-16239-646-en
http://www.big.be			239.
© BIG vzw			-16
Reason for revision: 3.2; 5; 9; 15			134

#### 2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
distillates (petroleum), hydrotreated light paraffinic 01-2119487077-29	64742-55-8 265-158-7	25% <c<50%< td=""><td>Asp. Tox. 1; H304</td><td>(1)(2)(10)</td><td>Constituent</td></c<50%<>	Asp. Tox. 1; H304	(1)(2)(10)	Constituent
hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics 01-2119457273-39		10% <c<12.5%< td=""><td>Asp. Tox. 1; H304</td><td>(1)(10)</td><td>Constituent</td></c<12.5%<>	Asp. Tox. 1; H304	(1)(10)	Constituent
pentane 01-2119459286-30	109-66-0 203-692-4	10% <c<12.5%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(2)(10)</td><td>Constituent</td></c<12.5%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	Constituent
propane 01-2119486944-21	74-98-6 200-827-9	12.5% <c<20%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<20%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
butane 01-2119474691-32	106-97-8 203-448-7	10% <c<12.5%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<12.5%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
isobutane 01-2119485395-27	75-28-5 200-857-2	10% <c<12.5%< td=""><td>Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280</td><td>(1)(2)(10)</td><td>Propellant</td></c<12.5%<>	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

(1) For H-statements in full: see heading 16

(2) Substance with a Community workplace exposure limit

(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, seek medical advice.

#### After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. Do not apply (chemical) neutralizing agents without medical advice. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:

ON CONTINUOUS EXPOSURE/CONTACT: Dry skin. Cracking of the skin.
After eye contact:
No effects known.

After ingestion:

No effects known.

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

Reason for revision: 3.2; 5; 9; 15

#### 5.1.1 Suitable extinguishing media:

Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher.

#### 5.1.2 Unsuitable extinguishing media:

Small fire: Quick-acting CO2 extinguisher, Water (water can be used to control jet flame), Foam.

Major fire: Water (water can be used to control jet flame), Foam.

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

Upon combustion: CO and CO2 are formed. Pressurised container: May burst if heated.

### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: persistant risk of physical explosion. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

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

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

### SECTION 6: Accidental release measures

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

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Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.
6.1.1 Protective equipment for non-emergency personnel
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#### See heading 8.2

#### 6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing. Suitable protective clothing

See heading 8.2

#### 6.2. Environmental precautions

Dam up the liquid spill.

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

Take up liquid spill into absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See heading 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Avoid prolonged and repeated contact with skin.

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

#### 7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Keep out of direct sunlight. Fireproof storeroom. Ventilation at floor level. Meet the legal requirements. **7.2.2 Keep away from:** 

# Heat sources, ignition sources.

- 7.2.3 Suitable packaging material:
  - Aerosol.

#### 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.

EU

Pentane	Time-weighted average exposure limit 8 h (Indicative occupational	1000 ppm
	exposure limit value)	
	Time-weighted average exposure limit 8 h (Indicative occupational	3000 mg/m³
	exposure limit value)	

Belgium

Reason for revision: 3.2; 5; 9; 15

Aydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1- (3) Pentane, tous isomères T T Pentaan Dienevel (minerale olie) T F Pentane T Pentane T T T T T T T T T T T T T	imit value) Fime-weighted average expo imit value) Fime-weighted average expo imit value) Fime-weighted average expo églementaire indicative) Fime-weighted average expo églementaire indicative)	osure limit 8 h osure limit 8 h osure limit 8 h (Public occupational exposure osure limit 8 h (Public occupational exposure osure limit 8 h (Public occupational exposure osure limit 8 h (VL: Valeur non	2 1800 mg/r
S     S       Pentane, tous isomères     T       T     S       S     S       The Netherlands     T       II-Pentaan     T       Dilienevel (minerale olie)     T       Ii     T       Dilienevel (minerale olie)     T       Ii     T       Pentane     T       I-Pentane     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T       T     T	Short time value Short time value Fime-weighted average expo Fime-weighted average expo Short time value Fime-weighted average expo imit value) Fime-weighted average expo imit value) Fime-weighted average expo imit value) Fime-weighted average expo réglementaire indicative) Fime-weighted average expo	osure limit 8 h osure limit 8 h osure limit 8 h (Public occupational exposure osure limit 8 h (Public occupational exposure osure limit 8 h (Public occupational exposure osure limit 8 h (VL: Valeur non	980 ppm 2370 mg/r 600 ppm 1800 mg/r 750 ppm 2250 mg/r 2600 ppm 1800 mg/r 1800 mg/r
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n-Pentane T T T T T T	réglementaire indicative) Fime-weighted average expo réglementaire indicative)	·	
n-Pentane T City City City City City City City City	églementaire indicative)		800 ppm
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Т	• • •	osure limit 8 h (VRC: Valeur réglementaire	1000 ppm
C	contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire		3000 mg/r
	contraignante)		L
Germany			1000 ppm
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sobutan T	Time-weighted average exposure limit 8 h (TRGS 900)		
т	Fime-weighted average expo	osure limit 8 h (TRGS 900)	2400 mg/r
Pentan T	Time-weighted average expo	osure limit 8 h (TRGS 900)	1000 ppm
<b>F</b>	Time-weighted average expo		3000 mg/r
	Time-weighted average expo		1000 ppm
	Time-weighted average expo	· · · · · ·	1800 mg/r
JK			
	Time-weighted average expo	osure limit 8 h (Workplace exposure limit	600 ppm
(1	EH40/2005))	· · ·	
	Fime-weighted average expo EH40/2005))	osure limit 8 h (Workplace exposure limit	1450 mg/r
		e exposure limit (EH40/2005))	750 ppm
s	Short time value (Workplace	e exposure limit (EH40/2005))	1810 mg/r
Pentane T	Time-weighted average expo	osure limit 8 h (Workplace exposure limit	600 ppm
	EH40/2005))		<u> </u>
	Time-weighted average expo EH40/2005))	osure limit 8 h (Workplace exposure limit	1800 mg/r
······	2		
JSA (TLV-ACGIH) Butane, all isomers S	Short time value (TLV - Adop	ated Value)	1000 ppm
· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		1
)) National biological limit values f limit values are applicable and available these will be listed below.	ow.	osure limit 8 h (TLV - Adopted Value)	1000 ppm
2 Sampling methods	Toct	Number	
Product name	Test	Number	
Product name I-PENTANE (HYDROCARBONS, BP 36 TO 126 °C)	NIOSH	1500	
Product name			

Effect level (DNEL/DMEL)	Туре		Value	Rema	rk
DNEL	Long-term system	nic effects inhalation	2.7 mg/m <sup>3</sup>		
	Long-term local e	ffects inhalation	5.6 mg/m³		
	Long-term system	nic effects dermal	1 mg/kg bw	/day	
entane					
Effect level (DNEL/DMEL)	Туре		Value	Rema	rk
DNEL	Long-term system	Long-term systemic effects inhalation		3	
	Long-term system	nic effects dermal	432 mg/kg k	ow/day	
NEL/DMEL - General population stillates (petroleum), hydrotrea					
Effect level (DNEL/DMEL)	Туре	ř.		Rema	rk
DNEL	Long-term system	nic effects oral	0.74 mg/kg	bw/day	
entane	• • •			•	
Effect level (DNEL/DMEL)	Туре		Value	Rema	rk
DNEL	Long-term system	Long-term systemic effects inhalation			
	Long-term system	ong-term systemic effects dermal		ow/day	
	Long-term system	Long-term systemic effects oral		ow/day	
<u>NEC</u> stillates (petroleum), hydrotrea	ted light paraffinic				
Compartments	v	/alue		Remark	
Oral	9	9.33 mg/kg food			
<u>entane</u>				•	
Compartments	v	/alue		Remark	
Fresh water	2	:30 μg/l			
Marine water	2	:30 μg/l			

# Soil 8.1.5 Control banding

Fresh water sediment Marine water sediment

If applicable and available it will be listed below.

Fresh water (intermittent releases)

#### 8.2. Exposure controls

STP

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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Measure the concentration in the air regularly.

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

Observe normal hygiene standards. Avoid prolonged and repeated contact with skin. Do not eat, drink or smoke during work.

880 μg/l

3600 μg/l

1.2 mg/kg sediment dw

1.2 mg/kg sediment dw

0.55 mg/kg soil dw

#### a) Respiratory protection:

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

b) Hand protection:

Protective gloves against chemicals (EN374).

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

### 8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

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

Physical form	Aerosol		
Odour	Solvent-like odour		
Odour threshold	No data available		
Colour	Light brown		
Particle size	No data available		
Explosion limits	0.6 - 10.9 vol %		
Flammability	Extremely flammable aerosol.		
Log Kow	Not applicable (mixture)		
Dynamic viscosity	No data available		
Kinematic viscosity	No data available		
Melting point	No data available		
Boiling point	No data available		
Evaporation rate	No data available		
Relative vapour density	No data available		
Vapour pressure	3500 hPa ; 20 °C		

Reason for revision: 3.2; 5; 9; 15

Publication date: 2011-03-06 Date of revision: 2019-04-04

Solubility	Water ; insoluble	
Relative density	0.68 ; 20 °C	
Decomposition temperature	No data available	
Auto-ignition temperature	No data available	
Flash point	< 0 °C	
Explosive properties	No chemical group associated with explosive properties	
Oxidising properties	No chemical group associated with oxidising properties	
рН	No data available	

#### 9.2. Other information

Absolute density

680 kg/m³ ; 20 °C

# SECTION 10: Stability and reactivity

#### 10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition 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

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks.

#### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

#### Upon combustion: CO and CO2 are formed.

**SECTION 11: Toxicological information** 

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

### Acute toxicity

#### NOVA PTFE OIL AEROSOL

#### No (test)data on the mixture available

Judgement is based on the relevant ingredients

drocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark	
						determination		
Oral	LD50	Equivalent to OECD	> 5000 mg/kg bw		Rat (male /	Read-across		
		401			female)			
Dermal	LD50	Equivalent to OECD	> 3160 mg/kg bw	24 h	Rabbit (male /	Read-across		
		402			female)			
Inhalation (aerosol)	LC50	Equivalent to OECD	> 5.6 mg/l	4 h	Rat (male)	Read-across		
1		403						

### pentane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 401	> 2000 mg/kg		Rat (male /	Experimental value	
					female)		
Dermal						Data waiving	
Inhalation (vapours)	LC50		> 20 mg/l air	4 h	Rat (male /	Experimental value	
					female)		

#### **Conclusion**

Not classified for acute toxicity

#### **Corrosion/irritation**

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available Judgement is based on the relevant ingredients

Reason for revision: 3.2; 5; 9; 15

#### . >>/A **`** . -. .

Route of exposure		isoalkanes, cycl		11103		_		
Route of exposure	Result	Metho	d Ex	posure time	Time point	Species	Value determination	Remark
Eye	Not irritatin	g OECD 4	05		24; 48; 72 hours	Rabbit	Read-across	Single treatr
Skin	Not irritatin	g Equival OECD 4		h	24; 48; 72 hours	Rabbit	Read-across	
entane							•	•
Route of exposure	Result	Metho	d Ex	posure time	Time point	Species	Value determination	Remark
Eye	Not irritatin	g OECD 4	05		1; 24; 48; 72 hours	s Rabbit	Experimental value	Single expos
Skin	Not irritatin	g Equival OECD 4		h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritatin	g Human observa		↓h		Human	Experimental value	
No (test)data on the n udgement is based or ydrocarbons, C10-C1 Route of exposure	n the relevant 3, n-alkanes,	ingredients		atics posure time	Observation time	Species	Value determination	Remark
	nesun				point	species	Value determination	
Skin	Not sensitizir	ng Equivalen 406	t to OECD		24; 48 hours	Guinea pig (female)	Read-across	
<u>entane</u>								
Route of exposure	Result	Method	Exp	oosure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizir	ng Equivalen 406	t to OECD		24 hours	Guinea pig (female)	Experimental value	
lot classified as consit	tizing for skin							
<b>c target organ toxicit</b> <u>A PTFE OIL AEROSOL</u> (test)data on the mix udgement is based or	xture availabl	ingredients	ics, < 2% aroma	<u>atics</u>				
c target organ toxicit A PTFE OIL AEROSOL (test)data on the mix udgement is based or ydrocarbons, C10-C1 Route of	xture availabl	: ingredients isoalkanes, cycl	ics, < 2% aroma Value	atics Organ	Effect E	xposure time	Species	Value determina
c target organ toxicit A PTFE OIL AEROSOL (test)data on the mix udgement is based or ydrocarbons, C10-C1	xture availabl the relevant <u>3, n-alkanes,</u> Parameter I NOAEL	: ingredients isoalkanes, cycl	1	Organ	Effect E No effect	xposure time	Species Rat (male / female)	Value determina Read-acro
c target organ toxicit A PTFE OIL AEROSOL (test)data on the mix udgement is based or ydrocarbons, C10-C1 Route of exposure Oral (stomach	xture availabl the relevant <u>3, n-alkanes,</u> Parameter I NOAEL	: ingredients <u>isoalkanes, cycl</u> Method Equivalent to	Value ≥ 1000 mg/kg	Organ		xposure time	Rat (male /	determina
c target organ toxicit (A PTFE OIL AEROSOL (test)data on the miz udgement is based or ydrocarbons, C10-C1. Route of exposure Oral (stomach tube)	xture availabl the relevant <u>3. n-alkanes,</u> Parameter I NOAEL NOAEC	: ingredients <u>isoalkanes, cycl</u> Method Equivalent to	Value ≥ 1000 mg/kg	Organ	No effect	xposure time 4 weeks (6h / c lays / week)	Rat (male / female)	determina Read-acros
c target organ toxicit A PTFE OIL AEROSOL (test)data on the mix udgement is based or ydrocarbons, C10-C1 Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) entane	xture availabl n the relevant <u>3. n-alkanes,</u> Parameter I NOAEL NOAEC	ingredients isoalkanes, cycl Method Equivalent to OECD 422 Equivalent to OECD 413	Value ≥ 1000 mg/kg bw/day ≥ 2200 mg/m <sup>3</sup> air	Organ	No effect	4 weeks (6h / c	Rat (male / female)	determina Read-acros Data waivi Read-acros
c target organ toxicit (A PTFE OIL AEROSOL (test)data on the mix udgement is based or ydrocarbons, C10-C1 <b>Route of</b> <b>exposure</b> Oral (stomach tube) Dermal Inhalation (vapours)	xture availabl the relevant <u>3. n-alkanes,</u> Parameter I NOAEL NOAEC	ingredients isoalkanes, cycl Method Equivalent to OECD 422 Equivalent to OECD 413	Value ≥ 1000 mg/kg bw/day ≥ 2200 mg/m <sup>4</sup>	Organ	No effect	4 weeks (6h / c	Rat (male / female)	determina Read-acros Data waivi
c target organ toxicit (A PTFE OIL AEROSOL (test)data on the mixi- udgement is based or ydrocarbons, C10-C1. Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) entane Route of Route of	xture availabl n the relevant <u>3. n-alkanes,</u> Parameter I NOAEL NOAEC	ingredients isoalkanes, cycl Method Equivalent to OECD 422 Equivalent to OECD 413	Value ≥ 1000 mg/kg bw/day ≥ 2200 mg/m <sup>3</sup> air	Organ	No effect	4 weeks (6h / c lays / week)	Rat (male / female)	determina Read-acros Data waivi Read-acros
ic target organ toxicit (A PTFE OIL AEROSOL (test)data on the mixi- udgement is based or ydrocarbons, C10-C1 Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) ventane Route of exposure Oral Dermal Dermal	xture availabl h the relevant <u>3, n-alkanes,</u> Parameter I NOAEL NOAEC Parameter I	ingredients isoalkanes, cycl Method Equivalent to OECD 422 Equivalent to OECD 413 Method	Value ≥ 1000 mg/kg bw/day ≥ 2200 mg/m <sup>3</sup> air Value	Organ Organ Organ	No effect 1 No effect 1 Effect E	4 weeks (6h / c lays / week) <b>xposure time</b>	Rat (male / female) lay, 5 Rat (female) Species	determina Read-acros Data waivi Read-acros Read-acros Value determina Data waivi Data waivi
ic target organ toxicit (A PTFE OIL AEROSOL (test)data on the mixi- udgement is based or ydrocarbons, C10-C1 Route of exposure Oral (stomach tube) Dermal Inhalation (vapours) ventane Route of exposure Oral	xture availabl h the relevant <u>3, n-alkanes,</u> Parameter I NOAEL NOAEC Parameter I	ingredients isoalkanes, cycl Method Equivalent to OECD 422 Equivalent to OECD 413	Value ≥ 1000 mg/kg bw/day ≥ 2200 mg/m <sup>3</sup> air	Organ Organ Organ	No effect 1 No effect 1 C Effect E No effect 1 No effect 1	4 weeks (6h / c lays / week)	Rat (male / female) lay, 5 Rat (female) Species	determina Read-acros Data waivi Read-acros Value determina Data waivi

**Conclusion** 

Not classified for subchronic toxicity

### Mutagenicity (in vitro)

NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Read-across
activation, negative without				
metabolic activation				

dizziness

Reason for revision: 3.2; 5; 9; 15

Publication date: 2011-03-06 Date of revision: 2019-04-04

				Ν	OVA	<b>P1</b>	FE (	OIL A	١E	ROS	DL			
per	ntane													
-	Result		Method				Test sub	strate		Effect	:		Value	determination
		gative without	Equivale	ent to O	ECD 471		Bacteria	(S.typhimu	rium)	No ef	fect		Exper	imental value
Mutagei	metabolic act	Ivation												
•														
No	. ,	<u>DSOL</u> the mixture av ed on the relev		ents										
hyd		.0-C13, n-alkan		<u> </u>	ics, < 2% arc									
	Result Negative			/lethod	nt to OECD	Ехро	sure time	2	Test s Rat (r	ubstrate		Organ		Value determination Read-across
	ivegative			quivale 78					nat (i	nale)				Redu-across
per	<u>ntane</u>													
	Result			/lethod	10.42	-	sure time			ubstrate	1.)	Organ		Value determination
	Negative		L L	U Metr	nod B.12		eeks (6h ) / week)	/ day, 5	Rat (r	nale / fema	ale)			Experimental value
No Carcinog <u>NOVA</u> No	enicity PTFE OIL AER( (test)data on	mutagenic or g <u>DSOL</u> the mixture av sed on the relev	ailable											
		0-C13, n-alkan Parameter		es, cycl	ics, < 2% ard Value		Exposure	e time	Spe	cies	Effect	t	Organ	Value
	exposure Inhalation	NOAEC	Equivalent OECD 453		≥ 2200 mg air	/m³		eks (6h / day	/, Rat	(female)	No ca effec	arcinogenic		determination Read-across
per	(vapours) ntane Route of	Parameter	Method		Value		5 days /		Spe	cies	Effect	-	Organ	Value
	exposure													determination
	Inhalation Dermal													Data waiving Data waiving
	Oral								_					Data waiving
Reprodu <u>NOVA</u> No Juc	PTFE OIL AER( (test)data on gement is bas	carcinogenicit <sup>1</sup> DSOL the mixture av ed on the relev 0-C13, n-alkan	ailable vant ingredie	ents	irs < 7% ard	omatics								
<u></u>			rameter	Meth		Value		Exposure t	ime	Species	Eff	ect	Organ	Value
	Development	al toxicity NO	DAEC			≥ 1575	5 mg/m³	10 days (6	h /	Rat (fema	le) No	effect		determination Experimental
	Maternal tox	icity NC	DAEL			≥ 5220 bw/da	) mg/kg v	day) 10 day(s)		Rat	No	effect		value Experimental value
per	ntane	Pa	rameter	Meth		Value		Exposure t	ime	Species	Fff	ect	Organ	Value
		ra	ameter	meu		Juide		_Aposale t		Species			Jigan	determination
	Development	al toxicity NC	DAEL (P)	OECI		1000 r	0. 0	10 day(s)		Rat (fema	le) No	effect		Experimental
	Maternal tox	icity NC	DAEL	OECI	D 414	bw/da 1000 r bw/da	ng/kg	10 day(s)		Rat (fema	le) No	effect		value Experimental value
	Effects on fer	tility NC	DAEC (P/F1)		valent to D 416	7000 p				Rat (male female)	-	productive rformance		Read-across
No Toxicity <u>NOVA</u> No	other effects PTFE OIL AER( (test)data on	reprotoxic or d <u>2SOL</u> the mixture av ased on the rel	ailable		city						L -			
Baacon f	or revision: 3.3	2. 5. 0. 15								Public	ation da	te: 2011-03-	06	

Reason for revision: 3.2; 5; 9; 15

Publication date: 2011-03-06 Date of revision: 2019-04-04

Revision number: 0801

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatior
			Skin	Skin dryness or cracking			Literature stu
<u>ntane</u>						-	
ntane Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination

Conclusion

Repeated exposure may cause skin dryness or cracking.

Chronic effects from short and long-term exposure

NOVA PTFE OIL AEROSOL

No effects known.

# SECTION 12: Ecological information

#### 12.1. Toxicity

#### NOVA PTFE OIL AEROSOL

No (test)data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 1000 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	NOELR	OECD 201	> 1000 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
Toxicity aquatic micro- organisms	EL50		> 1000 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR
entane		•	•		•	•		
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	4.26 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EC50	Other	2.7 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	ErC50	OECD 201	10.7 mg/l	72 h	Scenedesmus sp.	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOELR		6.165 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth rate
Long-term toxicity aquatic crustacea	NOELR		10.76 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR; Reproduction

#### **Conclusion**

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Biodegradation water** 

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	80 %; GLP	28 day(s)	Read-across
Biodegradation soil			
Method	Value	Duration	Value determination
1 ·	59.7 % - 62.6 %; Oxygen consumption	61 day(s)	Read-across

pentane

-				
В	iodegradation water			
	Method	Value	Duration	Value determination
	Equivalent or similar to OECD 301F	87 %; GLP	28 day(s)	Experimental value
Ρ	hototransformation air (DT50 air)			
	Method	Value	Conc. OH-radicals	Value determination
		3.95 day(s)	500000 /cm³	Calculated value

Reason for revision: 3.2; 5; 9; 15

Publication date: 2011-03-06 Date of revision: 2019-04-04

#### **Conclusion**

Contains non readily biodegradable component(s)

#### 12.3. Bioaccumulative potential

NOVA PTFE OIL AEROSOL

Log Kow				
Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			
distillates (petroleun	n), hydrotreated light paraffinic			
Log Kow				

Value determination Method Remark Value Temperature No data available hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

# Log Kow

	Method		Remark		Value		Temperature	Va	lue determination
			No data a	vailable					
per	itane								
В	CF fishes								
	Parameter	Method	N	Value	Duration	Species			Value determination
	BCF		-	171		Pimepha	les promelas		QSAR
L	og Kow								
	Method		Remark		Value		Temperature	Va	lue determination
	Other				3.45		25 °C	Exp	perimental value

#### **Conclusion**

No straightforward conclusion can be drawn based upon the available numerical values

0 %

#### 12.4. Mobility in soil

hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

#### Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	65.8 %	0 %	22.9 %	9.6 %	1.7 %	Calculated value

#### pentane (log) Koc

(								
Parameter				Method		Value		Value determination
log Koc						2.9		QSAR
Percent distributi	ion							
Method	Fraction air	Fraction biota	Fraction		Fraction soil	Fraction water	Value determi	nation
			lsodimon	t l				

0 %

1.8 %

Calculated value

#### Conclusion

Contains component(s) that adsorb(s) into the soil

97.7 %

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

#### 12.5. Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

0.5 %

#### 12.6. Other adverse effects

Mackay level III

#### NOVA PTFE OIL AEROSOL

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

None of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

**Ozone-depleting potential (ODP)** 

Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

### 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

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

Waste material code (Directive 2008/98/EC, Decision 2000/0532/EC).

20 01 13\* (separately collected fractions (except 15 01): Solvents). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Reason for revision: 3.2; 5; 9; 15

Specific treatment. Should not be landfilled with household waste. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

# 13.1.3 Packaging/Container

European Union

Waste material code packaging (Directive 2008/98/EC).

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

# SECTION 14: Transport information

# Road (ADR)

14. <u>1</u> . UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

14. <u>1. UN number</u>	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	23
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)

#### Inland waterways (ADN)

UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
n for revision: 3.2; 5; 9; 15	Publication date: 2011-03-06

Date of revision: 2019-04-04

Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)

### Sea (IMDG/IMSBC)

1950
aerosols
2.1
2.1
-
no
63
190
277
327
344
381
959
Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Code
Not applicable

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

14. <u>1</u> . UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	
Class	2.1
14. <u>4. Packing group</u>	
Packing group	
Labels	2.1
14. <u>5</u> . Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	30 kg G

# **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
65 %	
438.8 g/l	

**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> <li>distillates (petroleum), hydrotreated light paraffinic</li> <li>hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</li> <li>pentane</li> </ul>	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: (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;	<ol> <li>Shall not be used in:         <ul> <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> </li> <li>Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for</li> </ol>
Reason for revision: 3.2; 5; 9; 15		Publication date: 2011-03-06

Date of revision: 2019-04-04

Product number: 35065

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	<ul> <li>(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;</li> <li>(c) hazard class 4.1;</li> <li>(d) hazard class 5.1.</li> </ul>	fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 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). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shale ansure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibl 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"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legib and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; 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. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agenc to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intende for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member
	Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	<ol> <li>Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:         <ul> <li>metallic glitter intended mainly for decoration,</li> <li>artificial snow and frost,</li> <li>"whoopee" cushions,</li> <li>silly string aerosols,</li> <li>mitation excrement,</li> <li>horns for parties,</li> <li>decorative flakes and foams,</li> <li>artificial cobwebs,</li> <li>stlik bombs.</li> </ul> </li> <li>Without prejudice to the application of other Community provisions on the classification packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:         <ul> <li>"For professional users only".</li> <li>By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC.</li> <li>The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</li> </ul> </li> </ol>
National legislation Belgium           NOVA PTFE OIL AEROSOL           No data available           National legislation The Netherlands           NOVA PTFE OIL AEROSOL           Waterbezwaarlijkheid           distillates (petroleum), hydrotrea	Z (1); Algemene Beoordelingsmethodie	k (ABM)
SZW - Lijst van kankerverwekkende stoffen SZW - Lijst van mutagene stoffen	(complexe) aardolie- en steenkoolderivaten; Listed in SZW-list of carcinogenic substances (complexe) aardolie- en steenkoolderivaten; Listed in SZW-list of mutagenic substances	

# Nova PTFE OIL AEROSOL

No data available

Reason for revision: 3.2; 5; 9; 15

Publication date: 2011-03-06 Date of revision: 2019-04-04

#### Other relevant data NOVA PTFE OIL AEROSOL

No data available

distillates (petroleum), hydrotreated light paraffinic

TLV - Carcinogen Mineral oil, poorly and mildly refined; A2

#### 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

### SECTION 16: Other information

Full text of any H-statements referred to under heading 3:

- H220 Extremely flammable gas.
- H222 Extremely flammable aerosol.
- H225 Highly flammable liquid and vapour.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

(*)	INTERNAL CLASSIFICATION BY BIG
ADI	Acceptable daily intake
AOEL	Acceptable operator exposure level
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EC50	Effect Concentration 50 %
ErC50	EC50 in terms of reduction of growth rate
LC50	Lethal Concentration 50 %
LD50	Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
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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Reason for revision: 3.2; 5; 9; 15

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