

# SAFETY DATA SHEET

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2015/830

## NOVAFUEL CARE & PROTECT

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

#### 1.1. Product identifier

Product name : NOVAFUEL CARE & PROTECT  
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

Lubricant

##### 1.2.2 Uses advised against

No uses advised against

#### 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@tec7.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

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.
Carc.	category 2	H351: Suspected of causing cancer.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements



Contains: Kerosine (petroleum), hydrodesulfurized; hydrocarbons, C10, aromatics, > 1% naphthalene.

##### Signal word

Danger

##### H-statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H351	Suspected of causing cancer.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

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H411 Toxic to aquatic life with long lasting effects.

## P-statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P280 Wear protective gloves, protective clothing and eye protection/face protection.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.

## 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
Kerosine (petroleum), hydrodesulfurized 01-2119462828-25	64742-81-0 265-184-9	C≤50 %	Flam. Liq. 3; H226 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(10)	Constituent
2-ethylhexan-1-ol 01-2119487289-20	104-76-7 203-234-3	C≤20%	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(10)	Constituent
naphthalene	91-20-3 202-049-5	C≤0.7 %	Flam. Sol. 2; H228 Carc. 2; H351 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(9)	Constituent
hydrocarbons, C10, aromatics, > 1% naphthalene 01-2119463588-24		C≤6%	Carc. 2; H351 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
propane 01-2119486944-21	74-98-6 200-827-9	C≤20%	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Propellant
butane	106-97-8 203-448-7	C≤30%	Flam. Gas 1; H220 Press. Gas - Liquefied gas;	(1)(2)(10)(21)	Propellant

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

(2) Substance with a Community workplace exposure limit

(9) M-factor, see heading 16

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

(21) 1,3-butadiene <0.1%

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

#### 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. Soap may be used. Take victim to a doctor if irritation persists.

#### After eye contact:

Rinse immediately with plenty of 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. 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

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**After inhalation:**

EXPOSURE TO HIGH CONCENTRATIONS: Headache. Dizziness. Nausea. Drowsiness. Narcosis. Central nervous system depression.

**After skin contact:**

Tingling/irritation of the skin.

**After eye contact:**

Irritation of the eye tissue.

**After ingestion:**

Headache. Diarrhoea. Gastrointestinal complaints. Vomiting. Drowsiness.

**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: Water, Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting CO2 extinguisher.

Major fire: Quantities of water.

**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: persistent 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 (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

## SECTION 6: Accidental release measures

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

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**

See heading 8.2

**6.1.2 Protective equipment for emergency responders**

Gloves (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034).

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 strict hygiene. Remove contaminated clothing immediately.

**7.2. Conditions for safe storage, including any incompatibilities****7.2.1 Safe storage requirements:**

Storage temperature: < 50 °C. Keep out of direct sunlight. Ventilation at floor level. Fireproof storeroom. Protect against frost. 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

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## 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.

##### Client-specific limit values

	Time-weighted average exposure limit 8 h (Internal)	17 ppm
	Time-weighted average exposure limit 8 h (Internal)	100 mg/m <sup>3</sup>

##### EU

2-ethylhexan-1-ol	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	5.4 mg/m <sup>3</sup>
Naphtalene	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	10 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	50 mg/m <sup>3</sup>

##### Belgium

2-Éthylhexan-1-ol	Time-weighted average exposure limit 8 h	1 ppm
	Time-weighted average exposure limit 8 h	5.4 mg/m <sup>3</sup>
Alcool isoocytlique	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	270 mg/m <sup>3</sup>
Butane, tous isomères: n-butane	Short time value	980 ppm
	Short time value	2370 mg/m <sup>3</sup>
Carburant pour les moteurs à réaction (en vapeur d'hydrocarbure total) : application limitée aux conditions d'exposition aux aérosols négligeable	Time-weighted average exposure limit 8 h	200 mg/m <sup>3</sup>
Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1-C3)	Time-weighted average exposure limit 8 h	1000 ppm
Naphtalène	Time-weighted average exposure limit 8 h	10 ppm
	Time-weighted average exposure limit 8 h	53 mg/m <sup>3</sup>
	Short time value	15 ppm
	Short time value	80 mg/m <sup>3</sup>

##### The Netherlands

2-Ethylhexaan-1-ol	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	5.4 mg/m <sup>3</sup>
Naftaleen	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	9.4 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	50 mg/m <sup>3</sup>
	Short time value (Public occupational exposure limit value)	15 ppm
	Short time value (Public occupational exposure limit value)	80 mg/m <sup>3</sup>

##### France

Alcool isoocytlique	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	50 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	270 mg/m <sup>3</sup>
Naphtalène	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	50 mg/m <sup>3</sup>
n-Butane	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	800 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	1900 mg/m <sup>3</sup>

##### Germany

2-Ethylhexan-1-ol	Time-weighted average exposure limit 8 h (TRGS 900)	10 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	54 mg/m <sup>3</sup>
Butan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2400 mg/m <sup>3</sup>
Naphtalin	Time-weighted average exposure limit 8 h (TRGS 900)	0.4 ppm

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Naphthalin	Time-weighted average exposure limit 8 h (TRGS 900)	2 mg/m <sup>3</sup>
Propan	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1800 mg/m <sup>3</sup>

## UK

2-ethylhexan-1-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	5.4 mg/m <sup>3</sup>
Butane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1450 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	750 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1810 mg/m <sup>3</sup>

## USA (TLV-ACGIH)

Butane, all isomers	Short time value (TLV - Adopted Value)	1000 ppm
Isooctyl alcohol	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	50 ppm
Kerosene/Jet fuels, as total hydrocarbon vapor	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 mg/m <sup>3</sup> (P)
Naphthalene	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	10 ppm

(P): Application restricted to conditions in which there are negligible aerosol exposures

## b) National biological limit values

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

### UK

Polycyclic aromatic hydrocarbons (PAHs) (1-hydroxypyrene)	Urine: post shift	4 µmol/mol creatinine	
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## USA (BEI-ACGIH)

Naphthalene (1-Naphthol + 2-Naphthol)	: end of shift	Nonquantitative	Nonspecific, With hydrolysis
Polycyclic aromatic hydrocarbons (PAHs) (1-Hydroxypyrene (1-HP))	Urine: end of shift at end of workweek	2,5 µg/L	Background, With hydrolysis
Polycyclic aromatic hydrocarbons (PAHs) (3-Hydrobenzo(a)pyrene)	Urine: end of shift at end of workweek	Nonquantitative	With hydrolysis

### 8.1.2 Sampling methods

Product name	Test	Number
Naphthalene (Polynuclear aromatic hydrocarbons)	NIOSH	5506
Naphthalene (Polynuclear aromatic hydrocarbons)	NIOSH	5515
Naphthalene	OSHA	35

### 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

##### 2-ethylhexan-1-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	12.8 mg/m <sup>3</sup>	
	Long-term local effects inhalation	53.2 mg/m <sup>3</sup>	
	Acute local effects inhalation	53.2 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	23 mg/kg bw/day	

##### naphthalene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	25 mg/m <sup>3</sup>	
	Long-term local effects inhalation	25 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	3.57 mg/kg bw/day	

##### hydrocarbons, C10, aromatics, > 1% naphthalene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	151 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	12.5 mg/kg bw/day	

#### DNEL/DMEL - General population

##### Kerosine (petroleum), hydrodesulfurized

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects oral	19 mg/kg bw/day	

##### 2-ethylhexan-1-ol

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	2.3 mg/m <sup>3</sup>	
	Long-term local effects inhalation	26.6 mg/m <sup>3</sup>	
	Acute local effects inhalation	26.6 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	11.4 mg/kg bw/day	
	Long-term systemic effects oral	1.1 mg/kg bw/day	

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hydrocarbons, C10, aromatics, > 1% naphthalene

Effect level (DNEL/DMEL)	Type	Value	Remark
DNEL	Long-term systemic effects inhalation	32 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	7.5 mg/kg bw/day	
	Long-term systemic effects oral	7.5 mg/kg bw/day	

**PNEC**

2-ethylhexan-1-ol

Compartment	Value	Remark
Fresh water	0.017 mg/l	
Marine water	0.0017 mg/l	
Aqua (intermittent releases)	0.17 mg/l	
Fresh water sediment	0.28 mg/kg sediment dw	
Marine water sediment	0.028 mg/kg sediment dw	
Soil	0.047 mg/kg soil dw	
STP	10 mg/l	
Oral	55 mg/kg	

naphthalene

Compartment	Value	Remark
Fresh water	2.4 µg/l	
Fresh water (intermittent releases)	20 µg/l	
Marine water	2.4 µg/l	
STP	2.9 mg/l	
Fresh water sediment	67.2 µg/kg sediment dw	
Marine water sediment	67.2 µg/kg sediment dw	
Soil	53.3 µg/kg soil dw	

## 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

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 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
viton	> 480 minutes	0.70 mm	Class 6	

#### c) Eye protection:

Protective goggles (EN 166).

#### d) Skin protection:

Head/neck protection. Protective clothing (EN 14605 or EN 13034).

### 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	Characteristic odour
Odour threshold	No data available in the literature
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	0.7 - 12.7 vol % ; Propellant
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C ; Liquid
Kinematic viscosity	1 mm <sup>2</sup> /s ; 40 °C ; Liquid
Melting point	No data available in the literature
Boiling point	-42 °C - 250 °C ; Liquid
Evaporation rate	0.07 ; Butyl acetate ; Liquid
Relative vapour density	No data available in the literature
Vapour pressure	8530 hPa ; Propellant
Solubility	Water ; insoluble
Relative density	0.81 ; 20 °C ; Liquid

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Decomposition temperature	No data available in the literature
Auto-ignition temperature	Not applicable (aerosol)
Flash point	Not applicable (aerosol)
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
pH	No data available in the literature

## 9.2. Other information

Absolute density	813 kg/m <sup>3</sup> ; 20 °C ; Liquid
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## 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

Unstable on exposure to heat.

### 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 CO<sub>2</sub> are formed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### 11.1.1 Test results

#### Acute toxicity

#### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrosulfurized

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 420	> 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 (vapours)	LC50	Equivalent to OECD 403	> 5.28 mg/l air	4 h	Rat (male / female)	Read-across	

#### 2-ethylhexan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	3290 mg/kg bw		Rat (male)	Experimental value	
Dermal	LC50	OECD 402	> 3000 mg/kg bw		Rat (male / female)	Experimental value	
Inhalation	LC50	Equivalent to OECD 403	0.89 mg/l air - 5.3 mg/l air	4 h	Rat (male / female)	Experimental value	

#### naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral			category 4			Annex VI	
Oral	LD50	Equivalent to OECD 401	533 mg/kg bw		Mouse (male)	Experimental value	
Oral	LD50	Equivalent to OECD 401	710 mg/kg bw		Mouse (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 16000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 0.4 mg/l	4 h	Rat (male / female)	Experimental value	(maximum achievable concentration)

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# NOVAFUEL CARE & PROTECT

hydrocarbons, C10, aromatics, > 1% naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	6318 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 4.69 mg/m <sup>3</sup>	4 h	Rat (male / female)	Experimental value	(maximum achievable concentration)

## Conclusion

Not classified for acute toxicity

## Corrosion/irritation

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Classification is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	EPA OTS 798.4500			Rabbit	Experimental value	
Skin	Irritating		24 h	24; 48; 72 hours	Rabbit	Read-across	

2-ethylhexan-1-ol

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
Dermal	Highly irritating	OECD 404		24; 48; 72 hours	Rabbit	Experimental value	
Inhalation	Irritating		4 h		Human	Experimental value	

naphthalene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating		24 h	24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404	24 h	48 hours	Rabbit	Experimental value	

hydrocarbons, C10, aromatics, > 1% naphthalene

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Equivalent to OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	Equivalent to OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	

## Conclusion

Causes skin irritation.

Causes serious eye irritation.

Not classified as irritating to the respiratory system

## Respiratory or skin sensitisation

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

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

2-ethylhexan-1-ol

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Dermal	Not sensitizing			48 hours	Human (male)	Experimental value	

naphthalene

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

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# NOVAFUEL CARE & PROTECT

hydrocarbons, C10, aromatics, > 1% naphthalene

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (female)	Read-across	

## Conclusion

Not classified as sensitizing for inhalation  
Not classified as sensitizing for skin

## Specific target organ toxicity

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Classification is based on the relevant ingredients  
Kerosine (petroleum), hydrodesulfurized

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL		750 mg/kg bw/day		No effect		Rat (female)	Experimental value
Dermal	NOAEL	OECD 410	> 0.5 ml/kg bw		No effect	4 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation (vapours)	NOAEL	Equivalent to OECD 413	> 1000 mg/m <sup>3</sup> air		No effect	90 days (continuous)	Rat (female)	Not available
Inhalation			STOT SE cat.3		Drowsiness, dizziness			Literature study

### 2-ethylhexan-1-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 408	250 mg/kg bw/day		No adverse systemic effects	13 weeks (daily, 5 days / week)	Rat (male / female)	Experimental value
Inhalation	NOAEC	OECD 413	638.4 mg/m <sup>3</sup> air		Overall effects	13 weeks (daily, 5 days / week)	Rat (male / female)	Experimental value

### naphthalene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	200 mg/kg bw/day		No effect	13 weeks (5 days / week)	Rat (male / female)	Experimental value
Dermal	NOAEL	OECD 411	1000 mg/kg bw/day		No effect	13 weeks (5 days / week)	Rat (male / female)	Experimental value
Inhalation (vapours)	NOAEC systemic effects	OECD 413	0.3 mg/l air		No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value

### hydrocarbons, C10, aromatics, > 1% naphthalene

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	300 mg/kg bw/day		No adverse systemic effects	13 weeks (daily)	Rat (male / female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 452	1800 mg/m <sup>3</sup> air	General	No effect	52 weeks (6h / day, 5 days / week)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 452	900 mg/m <sup>3</sup> air	General	No effect	52 weeks (6h / day, 5 days / week)	Rat (female)	Experimental value
Inhalation			STOT SE cat.3		Drowsiness, dizziness			Literature study

## Conclusion

May cause drowsiness or dizziness.  
Not classified for subchronic toxicity

## Mutagenicity (in vitro)

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Judgement is based on the relevant ingredients  
Kerosine (petroleum), hydrodesulfurized

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value	

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## 2-ethylhexan-1-ol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	
Negative	Equivalent to OECD 473	Chinese hamster ovary (CHO)		Experimental value	

## naphthalene

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

## hydrocarbons, C10, aromatics, > 1% naphthalene

Result	Method	Test substrate	Effect	Value determination	Remark
Negative	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value	
Negative	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	

## Mutagenicity (in vivo)

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Judgement is based on the relevant ingredients

### Kerosine (petroleum), hydrosulfurized

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475		Rat (male / female)	Bone marrow	Experimental value

## naphthalene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Intraperitoneal)	Micronucleus test		Mouse (male / female)		Experimental value

## hydrocarbons, C10, aromatics, > 1% naphthalene

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 days (6h / day)	Rat (male / female)	Bone marrow	Experimental value

## Conclusion

Not classified for mutagenic or genotoxic toxicity

## Carcinogenicity

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Classification is based on the relevant ingredients

### 2-ethylhexan-1-ol

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral	NOAEL	Equivalent to OECD 451	500 mg/kg bw/day	102 weeks (daily, 5 days / week)	Rat (male / female)	No effect		Experimental value

## naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	LOAEC	Carcinogenic toxicity study	50 mg/m³ air	105 weeks (6h / day, 5 days / week)	Rat (male / female)	Tumor formation		Experimental value

## hydrocarbons, C10, aromatics, > 1% naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 452	≥ 1800 ppm	12 month(s)	Rat (male / female)	No effect		Read-across

## Conclusion

Suspected of causing cancer.

## Reproductive toxicity

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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# NOVAFUEL CARE & PROTECT

## Kerosine (petroleum), hydrosulfurized

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
	LOAEL	OECD 414	1500 mg/kg bw/day	10 day(s)	Rat	Reduced foetal bodyweights	Foetus	Experimental value
Maternal toxicity	NOAEL	OECD 414	500 mg/kg bw/day	10 day(s)	Rat	No effect	General	Experimental value
	LOAEL	OECD 414	1000 mg/kg bw/day	10 day(s)	Rat	Body weight reduction	General	Experimental value
Effects on fertility	NOAEL (P)		> 1500 mg/kg bw/day		Rat (female)	No effect	Female reproductive organ	Experimental value
	NOAEL (P)		> 3000 mg/kg bw/day		Rat (male)	No effect	Male reproductive organ	Experimental value

## 2-ethylhexan-1-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	OECD 414	130 mg/kg bw/day	6 days (gestation, daily) - 15 days (gestation, daily)	Rat			Experimental value
	NOAEC	OECD 414	850 mg/m <sup>3</sup> air	1 days (gestation, daily) - 19 days (gestation, daily)	Rat			Experimental value

## naphthalene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	150 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	50 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Inhalation (vapours))	NOAEC	Equivalent to OECD 413	306 mg/m <sup>3</sup> air	13 weeks (5 days / week)	Rat (male / female)	No effect		Experimental value

## hydrocarbons, C10, aromatics, > 1% naphthalene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 450 mg/kg bw/day		Rat (female)	No effect		Read-across
Effects on fertility	NOAEC	Equivalent to OECD 416	1500 ppm		Rat (male / female)	No effect		Read-across

## Conclusion

Not classified for reprotoxic or developmental toxicity

## **Toxicity other effects**

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

### hydrocarbons, C10, aromatics, > 1% naphthalene

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature study Skin

## **Chronic effects from short and long-term exposure**

### NOVAFUEL CARE & PROTECT

No effects known.

## SECTION 12: Ecological information

### **12.1. Toxicity**

### NOVAFUEL CARE & PROTECT

No (test)data on the mixture available

Classification is based on the relevant ingredients

# NOVAFUEL CARE & PROTECT

## Kerosine (petroleum), hydrodesulfurized

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	2 mg/l - 5 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	1.4 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	1 mg/l - 3 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Cell numbers
Long-term toxicity aquatic crustacea	NOEL	Equivalent to OECD 211	0.48 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Reproduction

## 2-ethylhexan-1-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	28.2 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity crustacea	EC50	EU Method C.2	39 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	EU Method C.3	11.5 mg/l	72 h	Desmodesmus subspicatus	Static system	Fresh water	Experimental value
Toxicity aquatic micro-organisms	NOEC		> 300 mg/l	24 h				Experimental value

## naphthalene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.96 ppm		Oncorhynchus gorbusha	Flow-through system	Salt water	Experimental value; Lethal
Acute toxicity crustacea	EC50	Equivalent to OECD 202	2.16 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	EC50		0.4 mg/l	72 h	Skeletonema costatum			Literature study; Growth rate
Toxicity aquatic micro-organisms	IC50		29 mg/l	24 h	Nitrosomonas	Static system		Experimental value; Ammonia

## hydrocarbons, C10, aromatics, > 1% naphthalene

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	2 mg/l - 5 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EL50		3 mg/l - 10 mg/l		Daphnia magna			Literature study
Toxicity algae and other aquatic plants	EL50		11 mg/l	72 h	Pseudokirchneriella subcapitata			Literature study
	NOELR		2.5 mg/l	72 h	Pseudokirchneriella subcapitata			Literature study
Long-term toxicity fish	NOELR		0.487 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR

## **Conclusion**

Toxic to aquatic life with long lasting effects.

## **12.2. Persistence and degradability**

### Kerosine (petroleum), hydrodesulfurized

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301F	58.6 %	28 day(s)	Experimental value

### 2-ethylhexan-1-ol

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301C	100 %	14 day(s)	Experimental value

### naphthalene

#### **Biodegradation water**

Method	Value	Duration	Value determination
OECD 301C	> 74 %; Oxygen consumption	28 day(s)	Experimental value

#### **Phototransformation air (DT50 air)**

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	5.942 h	1.5E6 /cm <sup>3</sup>	Calculated value

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hydrocarbons, C10, aromatics, > 1% naphthalene

## Biodegradation water

Method	Value	Duration	Value determination
OECD 301F	57.95 %; Oxygen consumption	28 day(s)	Experimental value

## Conclusion

Contains non readily biodegradable component(s)

## 12.3. Bioaccumulative potential

NOVAFUEL CARE & PROTECT

### Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Kerosine (petroleum), hydrosulfurized

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

2-ethylhexan-1-ol

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		25.33			Calculated value

### Log Kow

Method	Remark	Value	Temperature	Value determination
		2.9	25 °C	

naphthalene

### BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	OECD 305	23 - 168	8 week(s)	Cyprinus carpio	Experimental value

### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		3.4	25 °C	Experimental value

hydrocarbons, C10, aromatics, > 1% naphthalene

### Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

## Conclusion

Contains bioaccumulative component(s)

## 12.4. Mobility in soil

2-ethylhexan-1-ol

### (log) Koc

Parameter	Method	Value	Value determination
log Koc		1.415	Calculated value

naphthalene

### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	2.864	Calculated value

## Conclusion

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

Contains component(s) that adsorb(s) into 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.

## 12.6. Other adverse effects

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### Greenhouse gases

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)

Kerosine (petroleum), hydrosulfurized

### Groundwater

Groundwater pollutant

naphthalene

### Groundwater

Groundwater pollutant

# NOVAFUEL CARE & PROTECT

## 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).

13 02 08\* (waste engine, gear and lubricating oils: other engine, gear and lubricating oils). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

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. Dispose of at authorized waste collection point. Do not discharge into surface water (Directive 2000/60/EC, Council Decision 2455/2001/EC).

#### 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)

14.1. 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	yes
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 for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Rail (RID)

14.1. UN number	
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	yes
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 for liquids. A package shall not weigh more than 30 kg. (gross mass)

### Inland waterways (ADN)

14.1. UN number

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# NOVAFUEL CARE & PROTECT

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	yes
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 for liquids. A package shall not weigh more than 30 kg. (gross mass)

## Sea (IMDG/IMSBC)

14.1. UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	P
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	63
Special provisions	959
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)
14.7. Transport in bulk according to Annex II of Marpol and the IBC Code	
Annex II of MARPOL 73/78	Not applicable

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

14.1. 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
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
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
99.334 %	

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719.980 g/l

European drinking water standards (Directive 98/83/EC)

naphthalene

Parameter	Parametric value	Note	Reference
Pesticides	0.1 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.
Pesticides — Total	0.5 µg/l		Listed in Annex I, Part B, of Directive 98/83/EC on the quality of water intended for human consumption.

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
· Kerosine (petroleum), hydrodesulfurized · 2-ethylhexan-1-ol · hydrocarbons, C10, aromatics, > 1% naphthalene	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; (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; (c) hazard class 4.1; (d) hazard class 5.1.	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 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: — 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 shall ensure, 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, 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"; 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"; 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 Agency 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, intended 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 State concerned. Member States shall make those data available to the Commission.'
· Kerosine (petroleum), hydrodesulfurized	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.	1. 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: — metallic glitter intended mainly for decoration, — artificial snow and frost, — "whoopie" cushions, — silly string aerosols, — imitation excrement, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. 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: "For professional users only". 3. 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. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

## National legislation Belgium

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No data available

Kerosine (petroleum), hydrodesulfurized

Résorption peau	Carburant pour les moteurs à réaction (en vapeur d'hydrocarbure total) : application limitée aux conditions d'exposition aux aérosols négligeable; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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# NOVAFUEL CARE & PROTECT

## 2-ethylhexan-1-ol

Résorption peau	Alcool isooclylique; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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## naphthalene

Résorption peau	Naphtalène; D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant par contact direct que par présence de l'agent dans l'air.
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## **National legislation The Netherlands**

### NOVAFUEL CARE & PROTECT

Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)
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## **National legislation France**

### NOVAFUEL CARE & PROTECT

No data available

## 2-ethylhexan-1-ol

Risque de pénétration percutanée	Alcool isooclylique; PP
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## naphthalene

Catégorie cancérogène	Naphtalène; C2
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## **National legislation Germany**

### NOVAFUEL CARE & PROTECT

WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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## Kerosine (petroleum), hydrodesulfurized

TA-Luft	5.2.5
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## 2-ethylhexan-1-ol

TRGS900 - Risiko der Fruchtschädigung	2-Ethylhexan-1-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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## naphthalene

TA-Luft	5.2.5/I
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TRGS900 - Risiko der Fruchtschädigung	Naphtalin; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden
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Hautresorptive Stoffe	Naphtalin; H; Hautresorptiv
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## hydrocarbons, C10, aromatics, > 1% naphthalene

TA-Luft	5.2.7.1.1/III
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## **National legislation United Kingdom**

### NOVAFUEL CARE & PROTECT

No data available

## **Other relevant data**

### NOVAFUEL CARE & PROTECT

No data available

## Kerosine (petroleum), hydrodesulfurized

TLV - Skin absorption	Kerosene/Jet fuels, as total hydrocarbon vapor; Skin; Danger of cutaneous absorption
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TLV - Carcinogen	Kerosene/Jet fuels, as total hydrocarbon vapor; A3
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## 2-ethylhexan-1-ol

TLV - Skin absorption	Isooctyl alcohol; Skin; Danger of cutaneous absorption
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## naphthalene

TLV - Skin absorption	Naphtalene; Skin; Danger of cutaneous absorption
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TLV - Carcinogen	Naphtalene; A3
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IARC - classification	2B; Naphtalene
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## 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.
- H226 Flammable liquid and vapour.
- H228 Flammable solid.
- H229 Pressurised container: May burst if heated.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H351 Suspected of causing cancer.

Reason for revision: 3; 4.2; 8

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# NOVAFUEL CARE & PROTECT

H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic 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

## M-factor

napthalene	1	Acute	BIG
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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.

Reason for revision: 3; 4.2; 8

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