SAFETY DATA SHEET





NOVAFUEL ECOPOWER

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

1.1. Product identifier

Product name Registration number REACH Product type REACH : NOVAFUEL ECOPOWER : Not applicable (mixture)

: Mixture

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

1.2.1 Relevant identified uses

Fuel: additive Cleansing product Detergent according to Regulation (EC) No 648/2004

1.2.2 Uses advised against

No uses advised against known

1.3. Details of the supplier of the safety data sheet

Supplier of the safety data sheet

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

Manufacturer of the product

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	
Flam. Liq.	category 3	H226: Flammable liquid and vapour.	
Carc.	category 2	H351: Suspected of causing cancer.	
Asp. Tox.	category 1	H304: May be fatal if swallowed and enters airways.	
Skin Irrit.	category 2	H315: Causes skin irritation.	
Eye Irrit.	category 2	H319: Causes serious eye irritation.	
STOT SE	category 3	H335: May cause respiratory 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; 2-ethylhexan-1-ol; hydrocarbons, C10, aromatics, >1% naphthalene; naphthalene. Signal word Danger

H-statements		
H226	Flammable liquid and vapour.	
H351	Suspected of causing cancer.	
H304	May be fatal if swallowed and enters airways.	

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 3; 5; 15 Revision number: 0401 Publication date: 2007-01-10 Date of revision: 2019-04-30

Product number: 44635

134-16239-648-en

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/attention.

2.3. Other hazards

No other hazards known

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≤70 %	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≤30%	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)(2)(10)	Constituent
hydrocarbons, C10, aromatics, >1% naphthalene 01-2119463588-24		C≤9%	Carc. 2; H351 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
haphthalene	91-20-3 202-049-5	C≤2%	Carc. 2; H351 Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)	Constituent

(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:

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. 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:

Reason for revision: 3; 5; 15

Dizziness. Headache. Nausea. EXPOSURE TO HIGH CONCENTRATIONS: Narcosis. After skin contact: Tingling/irritation of the skin. After eye contact: Irritation of the eye tissue. After ingestion: Risk of aspiration pneumonia. Vomiting. 4.2.2 Delayed symptoms No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

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

5.1.2 Unsuitable extinguishing media:

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

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

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. Face-shield. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No naked flames.

- 6.1.1 Protective equipment for non-emergency personnel
- See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. Protective clothing. Suitable protective clothing See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

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

Keep away from naked flames/heat. Gas/vapour heavier than air at 20°C. Observe strict hygiene. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Protect against frost. Ventilation at floor level. Meet the legal requirements.

7.2.2 Keep away from:

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

7.2.3 Suitable packaging material:

No data available

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

Reason for revision: 3; 5; 15

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Product number: 44635

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.

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

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 ³
Alcool isooctylique	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	270 mg/m³
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/m³
Naphtalène	Time-weighted average exposure limit 8 h	10 ppm
	Time-weighted average exposure limit 8 h	53 mg/m³
	Short time value	15 ppm
	Short time value	80 mg/m ³

The Netherlands

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

France

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/m³
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/m³
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)

Germany

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/m³
Naphthalin	Time-weighted average exposure limit 8 h (TRGS 900)	0.4 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	2 mg/m³

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2-ethylhexan-1-ol	Time-weighted average exposure limit 8 h (Workplace exposure limit 1	1 ppm
	(EH40/2005))	
	Time-weighted average exposure limit 8 h (Workplace exposure limit 5	5.4 mg/m³
	(EH40/2005))	

USA (TLV-ACGIH)

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 ³ (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				

(P): Appli

b) National biological limit values If limit values are applicable and available these will be listed below.

UK

Reason for revision: 3; 5; 15

NI л

(1-hydroxypyrene)			creatinine	
USA (BEI-ACGIH)				
Naphthalene (1-Naphthol + 2-Na	phthol) : end of sh	nift	Nonquantitativ	e
Polycyclic aromatic hydrocarbon: (1-Hydroxypyrene (1-HP))	s (PAHs) Urine: end	d of shift at end of workweek	2,5 μg/L	
Polycyclic aromatic hydrocarbon: (3-Hydrobenzo(a)pyrene)	s (PAHs) Urine: end	d of shift at end of workweek	Nonquantitativ	e
.2 Sampling methods				
Product name Korosopo (Naphthas)		lest	1550	
Naphthalene (Polynuclear aroma	tic hydrocarbons)	NIOSH	5506	
Naphthalene (Polynuclear aroma	tic hydrocarbons)	NIOSH	5515	
Naphthalene		OSHA	35	
3 Applicable limit values when u If limit values are applicable and a L.4 Threshold values <u>DNEL/DMEL - Workers</u> 2-ethylhexan-1-ol	available these will	be listed below.		
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term sys	temic effects inhalation	12.8 mg/m ³	
	Long-term loc	al effects inhalation	53.2 mg/m ³	
	Acute local ef	tects inhalation	53.2 mg/m ³	
hydrocarbons, C10, aromatics. >1	ILong-term sys	ternic enects dermai	23 mg/kg bw/da	ay I
Effect level (DNEL/DMEL)	Туре		Value	Remark
DNEL	Long-term sys	temic effects inhalation	151 mg/m³	
	Long-term sys	temic effects dermal	12.5 mg/kg bw/	day
naphthalene	-		V-1	Dement
Effect level (DNEL/DMEL)	Type	tomic offects inhalation	Value	Remark
DIVEL	Long-term loc	al effects inhalation	25 mg/m ³	
	Long-term sys	temic effects dermal	3.57 mg/kg bw/	day
DNEL/DMEL - General populatio	<u>n</u>		•	· · · ·
2-ethylhexan-1-ol	L			
Effect level (DNEL/DMEL)	Type	tomic offects inholation	Value	Remark
DIVLE	Long-term loc	al effects inhalation	2.5 mg/m ³	
	Acute local ef	fects inhalation	26.6 mg/m ³	
	Long-term sys	temic effects dermal	11.4 mg/kg bw/	day
hydrocarbons C10 aromatics >1	Long-term sys	temic effects oral	1.1 mg/kg bw/d	ay
Effect level (DNEL/DMEL)			Value	Remark
DNEL	Long-term sys	temic effects inhalation	32 mg/m ³	Kennark
	Long-term sys	temic effects dermal	7.5 mg/kg bw/d	ay
	Long-term sys	temic effects oral	7.5 mg/kg bw/d	ay
PNEC				
Compartments		Value	Po	mark
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		
Oral		55 mg/kg		
naphthalene		55		
Compartments		Value	Rei	mark
Fresh water		2.4 μg/l		
Marine water		2.4 μg/l		
		20 μg/l		
Aqua (intermittent releases)		67.2 ug/kg sediment dw		
Aqua (intermittent releases) STP Eresh water sediment				
Aqua (intermittent releases) STP Fresh water sediment Marine water sediment		67.2 μg/kg sediment dw	Ī	
Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil		67.2 μg/kg sediment dw 53.3 μg/kg soil dw		

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

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

b) Hand protection: aningt chamicals (EN1274)

Materials	Measured breakthrough time	Thickness	Protection index
viton	> 480 minutes	0.7 mm	Class 6

c) Eye protection:

Face shield

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	Liquid
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	0.7 - 12.7 vol %
Flammability	Flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C
Kinematic viscosity	1 mm²/s ; 20 °C
Melting point	No data available
Boiling point	150 °C - 250 °C
Evaporation rate	0.070 ; Butyl acetate
Relative vapour density	No data available
Vapour pressure	5 hPa ; 20 °C
Solubility	Water ; insoluble
Relative density	0.81
Decomposition temperature	No data available
Auto-ignition temperature	450 °C
Flash point	60 °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

813 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

Temperature above flashpoint: higher fire/explosion hazard.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Keep away from naked flames/heat.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Reason for revision: 3; 5; 15

Upon combustion: CO and CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

NOVAFUEL ECOPOWER

No (test)data on the mixture available

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 420	> 5000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw	24 h	Rabbit (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 5.28 mg/l air	4 h	Rat (male / female)	Experimental value	
-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	

hydrocarbons, C10, aromatics, >1% naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to 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	> 4.688 mg/l air	4 h	Rat (male / female)	Experimental value	

naphthalene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
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		> 2500 mg/kg		Rat		

Conclusion Not classified for acute toxicity

Corrosion/irritation

NOVAFUEL ECOPOWER

No (test)data on the mixture available

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

100	i osine (petroleani),	inyaroucsunanizea						
	Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
							determination	
	Eye	Not irritating	EPA OTS 798.4500			Rabbit	Experimental value	
	Skin	Irritating	Other	24 h		Rabbit	Experimental value	
2-	ethylhexan-1-ol							

2-ethy	<u>/lhexan-1-ol</u>

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	

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Date of revision: 2019-04-30

	Result	Metho	d E	oposure time	Time point	Species	Value	Remark
				•		-	determination	
Eye	Not irritatir	ng Equiva OECD	lent to 405		24; 48; 72 hours	Rabbit	Read-across	
Skin	Not irritatir	ng OECD :	101 4	h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value	
clusion uses skin irritation. uses serious eye irr ay cause respiratory cory or skin sensitis	itation. y irritation. s ation							
FUEL ECOPOWER	mixture avail	able						
dgement is based o rosine (petroleum),	n the relevar , hydrodesulf	nt ingredients Furized						
Route of exposure	Result	Method	Ex	posure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizi	ing Equivaler 406	t to OECD			Guinea pig (male)	Experimental value	
<u>ethylhexan-1-ol</u>					-			
Route of exposure	Result	Method	Ex	posure time	Observation time point	Species	Value determination	Remark
Dermal	Not sensitizi	ing			48 hours	Human (male)	Experimental value	
drocarbons, C10, ar	romatics, >1%	<u>6 naphthalene</u>						
loute of exposure	Result	Method	Ex	posure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizi	ing Equivaler 406	t to OECD		24; 48 hours	Guinea pig (female)	Read-across	
(test)data on the mi	ixture availat	ble						
(test)data on the mi assification is based rosine (petroleum),	ixture availat on the relev . hydrodesulf	ble ant ingredients <u>urized</u>						
(test)data on the mi assification is based rosine (petroleum), Route of exposure	ixture availab on the relev <u>hydrodesulf</u> Parameter	ole ant ingredients <u>furized</u> Method	Value	Organ	Effect	Exposure time	Species	Value determir
itest)data on the mi assification is based rosine (petroleum), Route of exposure Oral	ixture availab on the relev hydrodesulf Parameter NOAEL	ole ant ingredients <u>'urized</u> Method	Value 750 mg/kg bw/day	Organ	Effect I No effect	Exposure time	Species Rat (female)	Value determin Experime value
itest)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal	ixture availab on the relev hydrodesulf Parameter NOAEL NOAEL	ole ant ingredients <u>urized</u> Method OECD 410	Value 750 mg/kg bw/day > 0.5 ml/kg b	Organ w	Effect I No effect 4 No effect 4	Exposure time 4 weeks (6h / day days / week)	Species Rat (female) r, 5 Rat (male / female)	Value determin Experim value Experim value
(test)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours)	ixture availab on the relev hydrodesulf Parameter NOAEL NOAEL NOAEL	ole ant ingredients <u>urized</u> Method OECD 410 Equivalent to OECD 413	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air	Organ W 3	Effect I No effect I No effect I No effect I	Exposure time 1 weeks (6h / day days / week) 90 days (continue	Species Rat (female) 7, 5 Rat (male / female) pus) Rat (female)	Value determin Experime value Experime value Experime value
itest)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol	ixture availab on the relev hydrodesulf Parameter NOAEL NOAEL NOAEL	ole ant ingredients <u>urized</u> Method OECD 410 Equivalent to OECD 413	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air	Organ W 3	Effect I No effect I No effect I No effect I I I	Exposure time 4 weeks (6h / day days / week) 90 days (continue	Species Rat (female) r, 5 Rat (male / female) pus) Rat (female)	Value determin Experim value Experim value Experim value
test)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol Route of exposure	ixture availab on the relev <u>hydrodesulf</u> Parameter NOAEL NOAEL NOAEL Parameter	ole ant ingredients <u>urized</u> Method OECD 410 Equivalent to OECD 413 Method	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value	Organ W 3 Organ	Effect I No effect 4 No effect 4 No effect 9 Effect I	Exposure time 4 weeks (6h / day days / week) 20 days (continuc Exposure time	Species Rat (female) 7, 5 Rat (male / female) pus) Rat (female) Species	Value determin Experim value Experim value Experim value Value determin
itest)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral	ixture availab on the relev. hydrodesulf Parameter NOAEL NOAEL Parameter NOAEL	ole ant ingredients <u>urized</u> Method OECD 410 Equivalent to OECD 413 Method OECD 408	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value 250 mg/kg bw/day	Organ w 3 Organ	Effect I No effect I I I	Exposure time 4 weeks (6h / day days / week) 90 days (continuo Exposure time 13 weeks (daily, days / week)	Species Rat (female) 7, 5 Rat (male / female) pus) Rat (female) Species 5 Rat (male / female)	Value determin Experimi value Experimi value Value Value determin Experimi value
(test)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral Inhalation	ixture availab on the relev. hydrodesulf Parameter NOAEL NOAEL Parameter NOAEL NOAEL NOAEL	Ant ingredients urized Method OECD 410 Equivalent to OECD 413 Method OECD 408 OECD 413	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value 250 mg/kg bw/day 638.4 mg/m ³ air	Organ W 3 Organ	Effect I No adverse systemic effects I Overall effects	Exposure time 4 weeks (6h / day days / week) 90 days (continuo Exposure time 13 weeks (daily, 1 days / week) 13 weeks (daily, 1 days / week)	Species Rat (female) 7, 5 Rat (male / female) ous) Rat (female) Species At (male / female) Rat (male / female) Rat (male / female) Rat (male / female) Rat (male / female)	Value determin value Experime value Experime value Value Value Experime value
itest)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral Inhalation drocarbons, C10, ar	ixture availab on the relev hydrodesulf Parameter NOAEL NOAEL NOAEL NOAEL NOAEL NOAEL	Ant ingredients urized Method OECD 410 Equivalent to OECD 413 Method OECD 408 OECD 413 OECD 413	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value 250 mg/kg bw/day 638.4 mg/m ³ air	Organ W 3 Organ	Effect I No adverse systemic effects I Overall I effects I	Exposure time 4 weeks (6h / day days / week) 90 days (continuc Exposure time 13 weeks (daily, 1 days / week) 13 weeks (daily, 1 days / week)	Species Rat (female) 7, 5 Rat (male / female) Dus) Rat (female) Species Rat (male / female) Species Rat (male / female) Species Rat (male / female) Rat (male / female) Rat (male / female) Rat (male / female) Rat (male / female)	Value determin value Experim value Experim value Value Value determin Experim value
Route of exposure Oral Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral Inhalation drocarbons, C10, ar Route of exposure	ixture availab on the relev. hydrodesulf Parameter NOAEL NOAEL NOAEL Parameter NOAEL NOAEL NOAEL	Ant ingredients urized Method OECD 410 Equivalent to OECD 413 Method OECD 408 OECD 413 OECD 413 OECD 413 Antipication of the second	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value 250 mg/kg bw/day 638.4 mg/m ³ air	Organ W 3 Organ Organ	Effect I No adverse systemic effects I Overall effects Effect I	Exposure time 4 weeks (6h / day days / week) 90 days (continuo Exposure time 13 weeks (daily, 1 days / week) 13 weeks (daily, 1 days / week) Exposure time	Species Rat (female) 7, 5 Rat (male / female) pus) Rat (female) Species 6 Rat (male / female) 5 Rat (male / female) 5 Rat (male / female) 5 Rat (male / female)	Value determin Experim value Experim value Value Value determin value Experim value Value Value determin
(test)data on the mi assification is based rosine (petroleum), Route of exposure Oral Dermal Inhalation (vapours) ethylhexan-1-ol Route of exposure Oral Inhalation drocarbons, C10, ar Route of exposure Oral Oral	ixture availab on the relev hydrodesulf Parameter NOAEL NOAEL NOAEL NOAEL NOAEL NOAEL <u>Parameter</u> NOAEL NOAEL	Antingredients <u>urized</u> Method OECD 410 Equivalent to OECD 413 Method OECD 408 OECD 413 <u>Anaphthalene</u> Method Equivalent to OECD 408	Value 750 mg/kg bw/day > 0.5 ml/kg b > 1000 mg/m air Value 250 mg/kg bw/day 638.4 mg/m³ air Value 300 mg/kg bw/day	Organ V Organ Organ Organ Organ Organ Organ	Effect I No effect A No effect A No effect A No effect B Effect I No adverse systemic effects B Overall effects C Effect I No adverse systemic effects B No adverse systemic effects C	Exposure time 4 weeks (6h / day days / week) 20 days (continue Exposure time 13 weeks (daily, 1 days / week) 13 weeks (daily, 1 days / week) Exposure time 13 weeks (daily)	Species Rat (female) 7, 5 Rat (male / female) 0us) Rat (female) Species 5 Rat (male / female) 6 Rat (male / female) 7 Species 8 Rat (male / female)	Value determin Experime value Experime value Value determin Experime value Experime value Value determin Read-act

Conclusion

May cause drowsiness or dizziness. Not classified for subchronic toxicity

Mutagenicity (in vitro)

NOVAFUEL ECOPOWER

Reason for revision: 3; 5; 15

No (test)data on the mixture available

Ker	osine (petroleum), hydrode	<u>sulfurized</u>				
	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative	Equivalent to OECD 476	Mouse (lymphoma L5178Y	No effect	Experimental value	
			cells)			
<u>2-e</u>	thylhexan-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		Experimental value	
			cells)			
	Negative	Equivalent to OECD 473	Chinese hamster ovary		Experimental value	
			(CHO)			
hyc	rocarbons, C10, aromatics,	>1% naphthalene				
	Result	Method	Test substrate	Effect	Value determination	Remark
	Negative	Equivalent to OECD 473	Chinese hamster ovary		Experimental value	
			(CHO)			
	Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value	

Mutagenicity (in vivo)

NOVAFUEL ECOPOWER

No (test)data on the mixture available

Classification is based on the relevant ingredients

Kerosine (petroleum), hydrodesulfurized

	Result	Method	Exposure time	Test substrate	Organ	Value determination
	Negative	Equivalent to OECD		Rat (male / female)	Bone marrow	Experimental value
		475				
hyc	rocarbons, C10, aromatics, >1% napht	halene		-		
	Result	Method	Exposure time	Test substrate	Organ	Value determination
	Negative	Equivalent to OECD	5 days (6h / day)	Rat (male / female)	Bone marrow	Experimental value
		475				

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NOVAFUEL ECOPOWER

No (test)data on the mixture available

Classification is based on the relevant ingredients

2-ethylhexan-1-ol

	Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	exposure								determination
	Oral	NOAEL	Equivalent to	500 mg/kg	102 weeks (daily, 5	Rat (male /	No effect		Experimental
			OECD 451	bw/day	days / week)	female)			value
hyc	rocarbons, C1	0, aromatics, >	1% naphthalene						
	Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	exposure								determination
	Inhalation	NOAEC	OECD 413	> 0.38 mg/l air	13 weeks (6h / day,	Rat (male)			Weight of
	(vapours)				5 days / week)				evidence
	Oral	NOAEL		300 mg/kg	13 weeks (daily)	Rat (male /	No carcinogenic		Weight of
				bw/day		female)	effect		evidence
nap	hthalene								
	Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	exposure								determination
	Inhalation			category 2	105 week(s)	Rat (male /		Nose	Experimental
	(vapours)					female)			value

Conclusion

Suspected of causing cancer.

Reproductive toxicity

NOVAFUEL ECOPOWER

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

Reason for revision: 3; 5; 15

rosine (petroleum), hydro	desulfurized							
	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	Experimental value

2-ethylhexan-1-ol

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

hydrocarbons, C10, aromatics, >1% naphthalene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	NOAS	E . I		24 1 ()		N 65 1		
Developmental toxicity	NOAEL	OECD 414	> 450 mg/kg bw/day	21 day(s)	Rat	No effect		Read-across
Effects on fertility	NOAEC	Equivalent to OECD 416	> 1500 ppm		Rat (male / female)			Read-across
	LOAEC	Equivalent to OECD 416	1500 ppm		Rat (male / female)			Read-across
nclusion								

Not classified for reprotoxic or developmental toxicity

Aspiration hazard

Classification is based on the relevant ingredients May be fatal if swallowed and enters airways.

Toxicity other effects

NOVAFUEL ECOPOWER

No (test)data on the mixture available hydrocarbons, C10, aromatics, >1% naphthalene

1140		Scarbons, etc, aromatics, 210 hapmanatere							
	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value	
								determination	
				Skin	Skin dryness or			Literature study	
					cracking			Skin	

Chronic effects from short and long-term exposure

NOVAFUEL ECOPOWER

No effects known.

SECTION 12: Ecological information

12.1. Toxicity

<u>NOVAFUEL ECOPOWER</u> No (test)data on the mixture available Classification is based on the relevant ingredients

Reason for revision: 3; 5; 15

Publication date: 2007-01-10 Date of revision: 2019-04-30

Revision number: 0401

Product number: 44635

erosine (petroleum), hydrodes	ulfurized				_		-	
	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	8.3 mg/l	72 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; GLP
Long-term toxicity aquatic crustacea	NOEL	OECD 211	0.48 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; GLP
ethylhexan-1-ol					1	1.		
	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
aphthalene	•			-	1	4		
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50		0.11 mg/l	96 h	Oncorhynchus mykiss			Literature study; Similar product
Acute toxicity crustacea	EC50		2.16 mg/l	48 h	Daphnia magna			Literature study
Toxicity algae and other aquatic plants	EC50		0.4 mg/l	72 h	Skeletonema costatum			Literature study; Growth rate
Long-term toxicity fish	EC0		0.12 mg/l	6 week(s)	Oncorhynchus gorbuscha			Literature study

Classification of this substance according to Annex VI is debatable as it does not correspond to the conclusion from the test

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

Kerosine (petroleum), hydrodesulfurized

В	iodegradation water		
	Method	Value	Duration

	OECD 301F: Manometric Respirometry Test	58.6 %	28 day(s)	Experimental value					
<u>2-e</u>	2-ethylhexan-1-ol								

<u>Riodogradation water</u>

	Method	Value	Duration	Value determination					
	OECD 301C: Modified MITI Test (I)	100 %	14 day(s)	Experimental value					
nar	aphthalene								

Biodegradation water

Method	Value	Duration	Value determination
	100 %	7 day(s)	Literature study

Conclusion

Contains non readily biodegradable component(s)

12.3. Bioaccumulative potential

NOVAFUEL ECOPOWER

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

Kerosine (petroleum), hydrodesulfurized

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Reason for revision: 3; 5; 15

Publication date: 2007-01-10 Date of revision: 2019-04-30

Value determination

Parameter	Method	Value	Duration	Species	Value determination
BCF		25.33			Calculated value
og Kow					
Method	F	Remark	Value	Temperature	Value determination
			2.9	25 °C	
drocarbons, C10,	aromatics, >1%	naphthalene			
og Kow					
Method	F	Remark	Value	Temperature	Value determination
	٦	No data available			
ohthalene					
<u> </u>					
CF fishes					Value determination
CF fishes Parameter	Method	Value	Duration	Species	value determination
CF fishes Parameter BCF	Method	Value 23 - 168	Duration 8 week(s)	Species Cyprinus carpio	Literature study
CF fishes Parameter BCF og Kow	Method	Value 23 - 168	Duration 8 week(s)	Species Cyprinus carpio	Literature study
CF fishes Parameter BCF og Kow Method	Method	Value 23 - 168 Remark	Duration 8 week(s) Value	Species Cyprinus carpio	Literature study

Contains bioaccumulative component(s)

12.4. Mobility in soil

2-ethylhexan-1-ol

(log)	Кос
-------	-----

Parameter	Method	Value	Value determination
log Koc		1.415	Calculated value

Conclusion

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

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

12.5. Results of PBT and vPvB assessment

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

NOVAFUEL ECOPOWER

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)

Kerosine (petroleum), hydrodesulfurized

Groundwater

Groundwater pollutant

hydrocarbons, C10, aromatics, >1% naphthalene

Groundwater

Groundwater pollutant

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 29* (separately collected fractions (except 15 01): detergents containing hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. 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. 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).

Reason for revision: 3; 5; 15

Publication date: 2007-01-10 Date of revision: 2019-04-30

Revision number: 0401

SECTION 14: Transport information

Road (ADR)

14. <u>1. U</u>	N number	
UN	number	1993
14. <u>2. U</u>	N proper shipping name	
Pro	per shipping name	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
14. <u>3. Tr</u>	ransport hazard class(es)	
Haz	ard identification number	30
Clas	55	3
Clas	ssification code	F1
14. <u>4. Pa</u>	acking group	
Pac	king group	
Lab	els	3
14. <u>5. Er</u>	nvironmental hazards	
Env	ironmentally hazardous substance mark	yes
14. <u>6. Sp</u>	pecial precautions for user	
Spe	cial provisions	274
Spe	cial provisions	601
Limi	ited quantities	Combination packagings: not more than 5 liters per inner packaging for
		liquids A nackage shall not weigh more than 30 kg (gross mass)

Rail (RID)

14. <u>1. UN number</u>	
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
14.3. Transport hazard class(es)	
Hazard identification number	30
Class	3
Classification code	F1
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)

Inland waterways (ADN)

14.1. UN number	
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
14.3. Transport hazard class(es)	
Class	3
Classification code	F1
14.4. Packing group	
Packing group	111
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	274
Special provisions	601
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)

Sea (IMDG/IMSBC)

14. <u>1. UN number</u>	
UN number	1993
14.2. UN proper shipping name	
Proper shipping name	flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	III

Reason for revision: 3; 5; 15

Publication date: 2007-01-10 Date of revision: 2019-04-30

Product number: 44635

Labels	3
14.5. Environmental hazards	
Marine pollutant	Р
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	223
Special provisions	274
Special provisions	955
Limited quantities	Combination packagings: not more than 5 liters 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 th	ne IBC Code
Annex II of MARPOL 73/78	Not applicable, based on available data
14.1. UN number UN number	1993
14.2. UN proper shipping name	
Proper shipping name	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
Proper shipping name 14. <u>3</u> . Transport hazard class(es)	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
Proper shipping name 14.3. Transport hazard class(es) Class	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized)
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3 3
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3 yes
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3 yes
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3 yes A3
Proper shipping name 14.3. Transport hazard class(es) Class 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark 14.6. Special precautions for user Special provisions Passenger and cargo transport	Flammable liquid, n.o.s. (Kerosine (petroleum), hydrodesulfurized) 3 III 3 yes A3

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 %	
812.959 g/l	

Ingredients according to Regulation (EC) No 648/2004 and amendments

≥30% aromatic hydrocarbons

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 5.1.	 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, Articles not complying with paragraph 1 shall not be placed on the market. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
ason for revision: 3; 5; 15		Publication date: 2007-01-10

Reason for revision: 3; 5; 15

Date of revision: 2019-04-30

		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.	 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, "whoopee" cushions, silly string aerosols, mitation excrement, horns for parties, decorative flakes and foams, artificial cobwebs, stink bombs. 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". 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. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

Novafue Ecopower

No data available Kerosine (netroleum) hydrodesulfurized

<u>Kerosine (petroleum), nya</u>	rodesulturized
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.
2-ethylhexan-1-ol	
Résorption peau	Alcool isooctylique; 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.
<u>naphthalene</u>	
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.

National legislation The Netherlands

NOVAFUEL ECOPOWER	
Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)
National legislation France	
No data available	
2-ethylhexan-1-ol	
Risque de pénétration percutanée	Alcool isooctylique; PP
naphthalene	
Catégorie cancérogène	Naphtalène; C2

National legislation Germany

NOVAFUEL ECOPOWER						
WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017					
2-ethylhexan-1-ol						
TRGS900 - Risiko der	2-Ethylhexan-1-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des					
Fruchtschädigung	biologischen Grenzwertes nicht befürchtet zu werden					
naphthalene						
TA-Luft	5.2.5/I					
TRGS900 - Risiko der	Naphthalin; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen					
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden					
Hautresorptive Stoffe	Naphthalin; H; Hautresorptiv					

National legislation United Kingdom

No data available

Other relevant data

Reason for revision: 3; 5; 15

NOVAFUEL ECOPOWER

No data available

Kerosine (petroleum), hydrodesulfurized

<u>Reforme (perfore inf) infordes in infectore</u>						
Skin absorption	Kerosene/Jet fuels, as total hydrocarbon vapor; Skin; Danger of cutaneous absorption					
TLV - Carcinogen	Kerosene/Jet fuels, as total hydrocarbon vapor; A3					
2-ethylhexan-1-ol						
Skin absorption	Isooctyl alcohol; Skin; Danger of cutaneous absorption					
naphthalene						
Skin absorption Naphthalene; Skin; Danger of cutaneous absorption						
TLV - Carcinogen	Naphthalene; A3					
IARC - classification	2B; Naphthalene					

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:

- H226 Flammable liquid and vapour.
- 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.
- 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
1-factor	

IN-Factor									
	naphthalene	1	Acute	BIG					

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; 5; 15