SAFETY DATA SHEET



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

NOVELEC

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

1.1. Product identifier

Product name : NOVELEC

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

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

2 +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

2 +32 14 85 97 37

4 +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

Classified as dariger	lassified 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.			
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







 $Contains: hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; propan-2-ol; hydrocarbons, C6, isoalkanes, < 5\% \ n-hexane.$

Signai word	Danger
H-statements	
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

P-statements

http://www.big.be

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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.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 List No	Conc. (C)	Classification according to CLP	Note	Remark
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 01-2119475515-33	927-510-4	C≤40 %	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
propan-2-ol 01-2119457558-25	67-63-0 200-661-7	C≤30%	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
hydrocarbons, C6, isoalkanes, < 5% n-hexane 01-2119484651-34	931-254-9	C≤30%	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
n-hexane 01-2119480412-44	110-54-3 203-777-6	C≤2 %	Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(8)(10)	Constituent
cyclohexane 01-2119463273-41	110-82-7 203-806-2	C≤0.4 %	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
butane 01-2119474691-32	106-97-8 203-448-7	C≤0.7 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant
propane 01-2119486944-21	74-98-6 200-827-9	C≤0.4 %	Flam. Gas 1; H220 Press. Gas - Liquefied gas; H280	(1)(2)(10)	Propellant

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

Note: numbers 9xx-xxx-x are provisional list numbers assigned by Echa pending an official EC inventory number

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. Take victim to a doctor if irritation persists.

After eve contact:

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⁽²⁾ Substance with a Community workplace exposure limit

⁽⁸⁾ Specific concentration limits, see heading 16

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

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:

Ring 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

After inhalation:

Headache, Dizziness, Narcosis,

After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

5.1.2 Unsuitable extinguishing media:

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

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

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

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

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. Head/neck protection. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

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 explosion proof 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. Protective goggles. Head/neck protection. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Observe normal hygiene standards. Remove contaminated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: < 50 °C. Store in a cool area. Protect against frost. Fireproof storeroom. Keep out of direct sunlight. Ventilation at floor level. Keep container tightly closed. Meet the legal requirements.

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7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU

Cyclohexane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	700 mg/m³
n-Hexane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	72 mg/m³

Belgium

Al 1:		200
Alcool isopropylique	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	500 mg/m³
	Short time value	400 ppm
	Short time value	1000 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	350 mg/m ³
Hydrocarbures aliphatiques sous forme gazeuse: (Alcanes C1 C3)	Time-weighted average exposure limit 8 h	1000 ppm
	Short time value	980 ppm
	Short time value	2370 mg/m³
n-Hexane	Time-weighted average exposure limit 8 h	20 ppm
	Time-weighted average exposure limit 8 h	72 mg/m ³

The Netherlands

Cyclohexaan	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	700 mg/m³
	Short time value (Public occupational exposure limit value)	400 ppm
	Short time value (Public occupational exposure limit value)	1400 mg/m³
n-Hexaan	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	20 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	72 mg/m³
	Short time value (Public occupational exposure limit value)	40 ppm
	Short time value (Public occupational exposure limit value)	144 mg/m³

France

Alcool isopropylique	Short time value (VL: Valeur non réglementaire indicative)	400 ppm
	Short time value (VL: Valeur non réglementaire indicative)	980 mg/m³
Cyclohexane	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	700 mg/m³
	Short time value (VL: Valeur non réglementaire indicative)	375 ppm
	Short time value (VL: Valeur non réglementaire indicative)	1300 mg/m³
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/m³

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n-Hexane	Time-weighted average expos contraignante)		sure limit 8 h (VRC: Valeur réglementaire		20 ppm
Ī		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)			72 mg/m³
_		peoritraignante)			1
Germany		Time weighted everes over		1001	1000 nnm
Butan		Time-weighted average expos Time-weighted average expos		•	1000 ppm 2400 mg/m ³
Cyclohexan		Time-weighted average expos			200 ppm
Сустопекан		Time-weighted average expos			700 mg/m³
n-Hexan		Time-weighted average expos			50 ppm
		Time-weighted average expos	ure limit 8 h (TRGS 9	000)	180 mg/m³
Propan		Time-weighted average exposure limit 8 h (TRGS 900)			1000 ppm
		Time-weighted average expos	· · · · · · · · · · · · · · · · · · ·		1800 mg/m³
Propan-2-ol		Time-weighted average expos			200 ppm
		Time-weighted average expos	ure limit 8 h (1RGS 9	100)	500 mg/m ³
UK					
Butane		Time-weighted average expos (EH40/2005))	ure limit 8 h (Workp	lace exposure limit	600 ppm
		Time-weighted average expos (EH40/2005))	ure limit 8 h (Workp	lace exposure limit	1450 mg/m³
		Short time value (Workplace e	· · · · · · · · · · · · · · · · · · ·		750 ppm
2 11		Short time value (Workplace e			1810 mg/m³
Cyclohexane		Time-weighted average expos			100 ppm
		Time-weighted average expos (EH40/2005)) Short time value (Workplace e			350 mg/m ³
		Short time value (Workplace e			1050 mg/m³
n-Hexane		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))			20 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))			72 mg/m³
Propan-2-ol		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))			400 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))			999 mg/m³
		Short time value (Workplace e	· · · · · · · · · · · · · · · · · · ·	.,,	500 ppm
		Short time value (Workplace e	exposure limit (EH40)	/2005))	1250 mg/m ³
JSA (TLV-ACGIH)					
2-propanol		Time-weighted average expos		dopted Value)	200 ppm
		Short time value (TLV - Adopte	· •		400 ppm
Butane, all isomers		Short time value (TLV - Adopted Value) Time weighted average expective limit % h (TLV - Adopted Value)			1000 ppm
Cyclohexane n-Hexane		Time-weighted average exposure limit 8 h (TLV - Adopted Value) Time-weighted average exposure limit 8 h (TLV - Adopted Value)			100 ppm 50 ppm
b) National biological limit values f limit values are applicable and available Germany Cyclohexan (1,2-Cyclohexandiol (nach	_		150 mg/g	11/2012 Ständige Se	
Hydrolyse))	mehreren vorangega expositionsende, bzv	angenen schichten	Kreatinin	Prüfung gesundheits Arbeitsstoffe der DF	sschädlicher
Hexan (n-Hexan) (2,5-Hexandion plus 4,5-Dihydroxy-2-Hexanon (nach Hydrolyse))	Urin: expositionsend	de, bzw. schichtende	5 mg/l	5/2013 Ständige Ser Prüfung gesundheits Arbeitsstoffe der DF	sschädlicher
Propan-2-ol (Aceton)	Urin: expositionsende, bzw. schichtende		25 mg/l	11/2012 Ständige Senatskommission Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG	
Propan-2-ol (Aceton)	Vollblut: expositionsende, bzw. schichtende		25 mg/l	11/2012 Ständige Senatskommissior Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG	
Vitamin K-Antagonisten (Quick-Wert)	Vollblut: keine besch	nränkung	Reduktion auf nicht weniger als 70%	11/2012 Ständige Se Prüfung gesundheits Arbeitsstoffe der DF	sschädlicher
USA (BEI-ACGIH)					
USA (BEI-ACGIH) 2-Propanol (Acetone)	Urine: end of shift at	t end of workweek	40 mg/L		

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Product name	Test	Number	
Cyclohexane (Hydrocarbons, BP36 to 126C)	NIOSH	1500	
Cyclohexane	OSHA	1022	
Cyclohexane	OSHA	7	
Isopropanol (Volatile Organic compounds)	NIOSH	2549	
Isopropyl Alcohol (Alcohols I)	NIOSH	1400	
Isopropyl Alcohol	OSHA	109	
n-Hexane (Hydrocarbons, BP36 to 126C)	NIOSH	1500	
n-Hexane (organic and inorganic gases by Extractive FTIR)	NIOSH	3800	
n-Hexane (Volatile Organic compounds)	NIOSH	2549	
n-Hexane	OSHA	2248	
n-Hexane	OSHA	7	

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

<u>DNEL/DMEL - Workers</u> <u>hydrocarbons, C7, n-alkanes, isoalkanes, cyclics</u>

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2085 mg/m³	
	Long-term systemic effects dermal	300 mg/kg bw/day	
nronan-2-ol		-	

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	500 mg/m³	
	Long-term systemic effects dermal	888 mg/kg bw/day	

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	5306 mg/m³	
	Long-term systemic effects dermal	13964 mg/kg bw/day	

n-hexane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	75 mg/m³	
	Long-term systemic effects dermal	11 mg/kg bw/day	

cyclohexane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	700 mg/m³	
	Acute systemic effects inhalation	1400 mg/m³	
	Long-term local effects inhalation	700 mg/m³	
	Acute local effects inhalation	1400 mg/m³	
	Long-term systemic effects dermal	2016 mg/kg bw/day	

<u>DNEL/DMEL - General population</u> hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	447 mg/m³	
	Long-term systemic effects dermal	149 mg/kg bw/day	
	Long-term systemic effects oral	149 mg/kg bw/day	
	-		

propan-2-ol

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	89 mg/m³	
	Long-term systemic effects dermal	319 mg/kg bw/day	
	Long-term systemic effects oral	26 mg/kg bw/day	

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1131 mg/m³	
	Long-term systemic effects dermal	1377 mg/kg bw/day	
	Long-term systemic effects oral	1301 mg/kg bw/day	

<u>n-hexane</u>

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	16 mg/m³	
	Long-term systemic effects dermal	5.3 mg/kg bw/day	
	Long-term systemic effects oral	4 mg/kg bw/day	
·			•

<u>cyclohexane</u>

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	206 mg/m³	
	Acute systemic effects inhalation	412 mg/m³	
	Long-term local effects inhalation	206 mg/m³	
	Acute local effects inhalation	412 mg/m³	
	Long-term systemic effects dermal	1186 mg/kg bw/day	
	Long-term systemic effects oral	59.4 mg/kg bw/day	

PNEC

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propan-2-ol

Compartments	Value	Remark
Fresh water	140.9 mg/l	
Marine water	140.9 mg/l	
Fresh water (intermittent releases)	140.9 mg/l	
STP	2251 mg/l	
Fresh water sediment	552 mg/kg sediment dw	
Marine water sediment	552 mg/kg sediment dw	
Soil	28 mg/kg soil dw	
Oral	160 mg/kg food	

cyclohexane

Compartments	Value	Remark
Fresh water	0.207 mg/l	
Marine water	0.207 mg/l	
Aqua (intermittent releases)	0.207 mg/l	
STP	3.24 mg/l	
Fresh water sediment	16.68 mg/kg sediment dw	
Marine water sediment	16.68 mg/kg sediment dw	
Soil	3.38 mg/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 normal hygiene standards. 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).

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

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available
Colour	No data available on colour
Particle size	No data available
Explosion limits	1.1 - 12 vol %
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	1 mPa.s ; 20 °C ; Liquid
Kinematic viscosity	1 mm²/s ; 20 °C ; Liquid
Melting point	No data available
Boiling point	-140 °C - 95 °C ; Liquid
Evaporation rate	7 ; Butyl acetate
Relative vapour density	No data available
Vapour pressure	8530 hPa ; 20 °C
Solubility	Water ; insoluble
Relative density	0.731 ; 20 °C ; Liquid
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

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9.2. Other information

Absolute density 731 kg/m³; 20 °C; Liquid

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 CO2 are formed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

NOVELEC

No (test)data on the mixture available

Judgement is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

hydrocarbons, C6, isoalkanes, < 5% n-hexane

403

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		> 5840 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50	Other	> 2800 mg/kg bw	24 h	Rat (male / female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 23.3 mg/l air	4 h	Rat (male / female)	Read-across	

pan-2-ol							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	5840 mg/kg bw		Rat	Experimental value	
Dermal	LD50	Equivalent to OECD 402	16400 mg/kg bw	24 h	Rabbit	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 10000 ppm	6 h	Rat (male / female)	Experimental value	

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	> 16750 mg/kg bw		Rat (male)	Read-across	
Dermal	LD50	Equivalent to OECD 402	> 3350 mg/kg bw	4 h	Rabbit (male)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD	259.354 mg/l	4 h	Rat (male)	Read-across	

n-hexane

Route of exposure	Parameter	Method	Value	Exposure time			Remark
						determination	
Oral	LD50	Equivalent to OECD	16000 mg/kg bw		Rat (male /	Experimental value	
		401			female)		
Dermal	LD50	Equivalent to OECD 402	> 3350 mg/kg bw	4 h	Rabbit (male)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 5000 ppm	24 h	Rat (male)	Experimental value	

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cyclohexane

Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 32.88 mg/l air		Rat (male / female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 19.07 mg/l		Rat (male / female)	Experimental value	

Conclusion

Not classified for acute toxicity

Corrosion/irritation

NOVELEC

No (test)data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating			7 days	Rabbit	Read-across	Single treatment
Skin	0	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	

propan-2-ol

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

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

n-hexane

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	Equivalent to OECD 405		72 hours	Rabbit	Read-across	
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Read-across	
1	Irritating; category 2					Annex VI	

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

cyclonexane

<u> cioricxarie</u>							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Slightly irritating	Equivalent to		1 hour	Rabbit	Experimental	
		OECD 405				value	
Skin	Not irritating	Equivalent to EU	4 h	24; 48; 72 hours	Rabbit	Experimental	
		Method B.4				value	
Skin	Irritating;					Annex VI	
	category 2						
Inhalation	Irritating					Literature study	

Conclusion

Causes skin irritation.

Causes serious eye irritation.

Respiratory or skin sensitisation

NOVELEC

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

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hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	hvdrocarbons	. C7. n-alkanes	s. isoalkanes	. cvclics
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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 (male / female)	Read-across	

propan-2-ol

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406	24; 48 hours	Guinea pig (male / female)	Experimental value	

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429		Mouse (male / female)	Read-across	

<u>n-hexane</u>

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 429		Mouse	Read-across	

cyclohexane

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	EU Method B.6	24; 48 hours	Guinea pig (male / female)	Experimental value	

Conclusion

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

Specific target organ toxicity

NOVELEC

No (test)data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	-	Value determination
Inhalation (vapours)	NOAEL	Equivalent to OECD 413	12350 mg/m ³ air			26 weeks (6h / day, 5 days / week)		Read-across
Inhalation (vapours)	LOAEL	Equivalent to OECD 413	1650 mg/m³ air	Central nervous system		26 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across

propan-2-ol

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	OECD 451	5000 ppm			104 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimental value
Inhalation (vapours)		Equivalent to OECD 403	5000 ppm	Central nervous system	Drowsiness, dizziness	6 h	Rat (male / female)	Experimental value

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	10504 mg/m³ air			13 weeks (6h / day, 5 days / week)	Rat (male)	Read-across
Inhalation (vapours)	LOAEC	Equivalent to OECD 413	31652 mg/m³ air	Liver; kidney	- 0-	13 weeks (6h / day, 5 days / week)	Rat (male)	Read-across

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n-hexane	n-	-he	xa	ne
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Parameter	Method	Value	Organ	Effect	Exposure time	- 0	Value determination
NOAEL	Subchronic toxicity test	567 mg/kg bw/day - 1135 mg/kg bw/day			13 weeks (5 days / week)	Rat (male)	Experimental value
LOAEL	Subchronic toxicity test	3956 mg/kg bw/day			17 weeks (5 days / week)	Rat (male)	Experimental value
							Data waiving
LOAEC	Subchronic toxicity test	3000 ppm	system	of the nervous	16 weeks (daily)	Rat (male)	Experimental value
		STOT SE cat.3		,			Literature study
	NOAEL	LOAEL Subchronic toxicity test LOAEC Subchronic	NOAEL Subchronic toxicity test bw/day - 1135 mg/kg bw/day LOAEL Subchronic toxicity test bw/day LOAEC Subchronic toxicity test 3956 mg/kg bw/day LOAEC Subchronic toxicity test 3000 ppm	NOAEL Subchronic toxicity test bw/day - 1135 mg/kg bw/day LOAEL Subchronic toxicity test bw/day System LOAEC Subchronic toxicity test STOT SE cat.3	NOAEL Subchronic toxicity test bw/day - 1135 mg/kg bw/day LOAEL Subchronic toxicity test bw/day System LOAEC Subchronic toxicity test Subchronic toxicity test bw/day System LOAEC Subchronic toxicity test System System System Central nervous system of the nervous system	NOAEL Subchronic toxicity test bw/day - 1135 mg/kg bw/day LOAEL Subchronic toxicity test bw/day Central nervous system STOT SE cat.3 No effect 13 weeks (5 days / week) 13 weeks (5 days / week) 17 weeks (5 days / week) 16 weeks (daily) 16 weeks (daily) 17 weeks (5 days / week)	NOAEL Subchronic toxicity test bw/day - 1135 mg/kg bw/day LOAEL Subchronic toxicity test bw/day System LOAEL Subchronic toxicity test bw/day LOAEC Subchronic toxicity test STOT SE cat.3 STOT SE cat.3 No effect 13 weeks (5 days / week) Rat (male) week) Rat (male) week) Rat (male) week) Rat (male) weeks (5 days / week) Provide toxicity test system of the nervous system system

Route of	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
exposure								determination
Oral								Data waiving
Dermal								Data waiving
Inhalation	NOAEC	EPA OPPTS	7000 ppm		No adverse	13 weeks (6h / day, 5	Rat (male /	Experimental
(vapours)		870.3465			systemic	days / week)	female)	value
					effects			
Inhalation	NOAEC	EPA OPPTS	500 mg/m³ air	Central nervous	No effect	6 h	Rat (male /	Experimental
(vapours)		870.3465		system			female)	value

Conclusion

May cause drowsiness or dizziness. Not classified for subchronic toxicity

Mutagenicity (in vitro)

NOVELEC

No (test)data on the mixture available

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 476	Human lymphocytes	No effect	Read-across	
activation, negative					
without metabolic					
activation					

propan-2-ol

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
activation					

hydrocarbons, C6, isoalkanes, < 5% n-hexane

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

n-hexane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative		Mouse (lymphoma L5178Y cells)	No effect	Experimental value	
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	

cyclohexane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 476	Mouse (lymphoma L5178Y	No effect	Experimental value	
activation, negative		cells)			
without metabolic					
activation					

Mutagenicity (in vivo)

NOVELEC

No (test)data on the mixture available

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Judgement is based on the relevant ingredients

propan-2-ol

Result	Method	Exposure time	Test substrate	Organ	Value determination	
Negative	Equivalent to OECD		Mouse (male / female)		Experimental value	
	474					

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Į.	Result	Method	Exposure time	Test substrate	Organ	Value determination
	-0 (/ - //	Equivalent to OECD 475	5 days (6h / day)	Rat (male / female)	Bone marrow	Experimental value

n-hexane

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative		8 weeks (6h / day, 5	Mouse (male)		Experimental value
		days / week)			

cyclohexane

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

NOVELEC

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

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation								Data waiving
Dermal								Data waiving
Oral								Data waiving

propan-2-ol

Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
exposure								determination
Inhalation	NOEL	OECD 451	5000 ppm	104 weeks (6h / day,	Rat (male /	No carcinogenic		Experimental
(vapours)				5 days / week)	female)	effect		value

hydrocarbons, C6, isoalkanes, < 5% n-hexane

	Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	exposure								determination
	Inhalation	NOAEC	Equivalent to	9016 ppm	104 weeks (6h / day,	Rat (male /	No carcinogenic		Experimental
	(vapours)		OECD 451		5 days / week)	female)	effect		value
٠ h	ovano							-	

n-hexane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect		Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	• • •	104 weeks (6h / day, 5 days / week)	Mouse (female)	No carcinogenic effect		Read-across
Inhalation (vapours)	LOAEC	Equivalent to OECD 451	• • •	104 weeks (6h / day, 5 days / week)	• •	Tumor formation	Liver	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 451	• • •	104 weeks (6h / day, 5 days / week)	Mouse (male)	No carcinogenic effect		Read-across

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NOVELEC

No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>hydrocarbons</u>, C7, n-alkanes, isoalkanes, cyclics

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 days (6h / day)	Mouse	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 days (6h / day)	Rat (female)	No effect		Read-across
	LOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 days (6h / day)	Rat (female)	Lung tissue affection/degen eration	Lungs	Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	31680 mg/m³ air		Rat (male / female)	No effect		Read-across

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propan-2-ol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	1 '	400 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	1 '	400 mg/kg bw/day	10 day(s)	Rat (female)	No effect		Experimental value
Effects on fertility (Oral (drinking water))	NOAEL	1 '	853 mg/kg bw/day	21 day(s) - 70 day(s)	Rat (male / female)	No effect		Experimental value

hydrocarbons, C6, isoalkanes, < 5% n-hexane

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEC	Equivalent to OECD 414	> 7000 ppm	10 days (6h / day)	Rat	No effect		Read-across
Maternal toxicity (Inhalation (vapours))	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h / day)	Rat (female)	No effect		Read-across
Effects on fertility (Inhalation (vapours))	NOAEC	Equivalent to OECD 416	9000 ppm		Rat (male / female)	No effect		Read-across

n-hexane

	Parameter	Method	Value	Exposure time	Species	Effect	- 0-	Value determination
Developmental toxicity (Inhalation (vapours))	NOAEC	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h / day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	3000 ppm	10 days (gestation, 6h / day)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (vapours))	LOAEL	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h / day)	Rat	Weight gain		Experimental value
Effects on fertility (Inhalation (vapours))	NOAEC	Equivalent to OECD 416	9000 ppm	≥ 13 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Experimental value

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

cyclohexane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h / day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h / day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	7000 ppm	> 11 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Experimental value

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NOVELEC

No (test)data on the mixture available hydrocarbons, C6, isoalkanes, < 5% n-hexane

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
							determination
NOAEC	Equivalent to OECD 424	9000 ppm	Central nervous system	Overall effects	13 weeks (6h / day, 5 days / week)	female)	Experimental value Inhalation

cyclohexane

, -	TOTTEMBLIE							
	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
	NOAEC	Other	2000 ppm		neurotoxic effects	6 h	` '	Experimental value
	LOAEC	Other	7000 ppm		neurotoxic effects	6 h	,	Experimental value

Chronic effects from short and long-term exposure

<u>NOVELEC</u>

No effects known.

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SECTION 12: Ecological information

12.1. Toxicity

NOVELEC

No (test)data on the mixture available

Classification is based on the relevant ingredients

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	> 13.4 mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	29 mg/l WAF	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; GLP
Long-term toxicity fish	NOELR		1.534 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across; GLP
	EL50	OECD 211	1.6 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms	EL50		26.81 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth rate

propan-2-ol

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	9640 mg/l - 10000 mg/l	96 h	Pimephales promelas	Flow- through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	LC50	Equivalent to OECD 202	> 10000 mg/l	24 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	Toxicity threshold		1800 mg/l	7 day(s)	Scenedesmus quadricauda	Static system	Fresh water	Experimental value; Toxicity test
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC		2344 μmol/l	16 day(s)	Daphnia magna		Fresh water	Experimental value; Growth
Toxicity aquatic micro- organisms	Toxicity threshold	Equivalent to DIN 38412/8	1050 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value; Toxicity test
	EC50	ISO 8192	41676 mg/l	30 minutes	Activated sludge			Experimental value

hydrocarbons, C6, isoalkanes, < 5% n-hexane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		18.27 mg/l	96 h	Oncorhynchus mykiss		Fresh water	QSAR
Acute toxicity crustacea	EL50		31.9 mg/l	48 h	Daphnia magna		Fresh water	QSAR
Toxicity algae and other aquatic plants	EL50		13.56 mg/l	72 h	Pseudokirchneri ella subcapitata		Fresh water	QSAR
Long-term toxicity fish	NOELR		4.089 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOELR		7.138 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR

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

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50		12.51 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Estimated value; Nominal concentration
Acute toxicity crustacea	EL50		21.85 mg/l	48 h	Daphnia magna		Fresh water	Estimated value; Nominal concentration
Toxicity algae and other aquatic plants	EL50		9.285 mg/l	72 h	Pseudokirchneri ella subcapitata		Fresh water	Estimated value; Growth rate
Long-term toxicity fish	NOELR		2.8 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	Estimated value; Nominal concentration
Long-term toxicity aquatic crustacea	NOELR		4.888 mg/l	21 day(s)	Daphnia magna		Fresh water	Estimated value; Nominal concentration

cyclohexane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	4.53 mg/l	96 h	Pimephales promelas	Flow- through system	Fresh water	Experimental value; Measured concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	0.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	Equivalent to OECD 201	9.317 mg/l	72 h	Pseudokirchneri ella subcapitata			Experimental value; GLP
	NOEC	OECD 201	0.94 mg/l	72 h	Pseudokirchneri ella subcapitata			Experimental value; Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro- organisms	IC50		29 mg/l	15 h	Aerobic micro- organisms			Experimental value; Nominal concentration

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Experimental value

propan-2-ol

Biodegradation water

Method	Value	Duration	Value determination
OECD 301E: Modified OECD Screening Test	95 %	21 day(s)	Experimental value

Phototransformation air (DT50 air)

M	ethod	Value	Conc. OH-radicals	Value determination
AC	DPWIN v1.92	17.668 h	1500000 /cm³	Calculated value

hydrocarbons, C6, isoalkanes, < 5% n-hexane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Read-across

n-hexane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	98 %; GLP	28 day(s)	Read-across

Biodegradation soil

Method	Value	Duration	Value determination
			Data waiving

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cyclohexane

Biodegradation water

Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	77 %; GLP	28 day(s)	Experimental value

Half-life soil (t1/2 soil)

Method		Primary degradation/mineralisation	Value determination
	28 day(s) - 180 day(s)		Literature study

Conclusion

Does not contain any not readily biodegradable component(s)

12.3. Bioaccumulative potential

NOVELEC

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)			

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Log Kow

-	106 KOW					
	Method	Remark	Value	Temperature	Value determination	
			> 3			

propan-2-ol

Log Kow

Method	Remark	Value	Temperature	Value determination
			25 °C	Weight of evidence approach

hydrocarbons, C6, isoalkanes, < 5% n-hexane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		501.187		Pimephales promelas	Calculated value

Log Kow

Method	Remark	Value	Temperature	Value determination
Equivalent to OECD 107		3.6	20 °C	Read-across

n-hexane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF	Other	501.187		Pimephales promelas	QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
Equivalent to OECD 107		4	20 °C	Experimental value

cyclohexane

BCF fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		167		Pimephales promelas	QSAR

Log Kow

Method	Remark	Value	Temperature	Value determination
Other			25 °C	Experimental value

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	96 %	0 %	1.8 %	0.55 %	1.4 %	Calculated value

propan-2-ol (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	0.185 - 0.541	Calculated value

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hydrocarbons, C6, isoalkanes, < 5% n-hexane

(log) Koc

Parameter	Method	Value	Value determination
log Koc		3.34	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	93.6 %	0 %	2.1 %	0.5 %	3.8 %	Calculated value

n-hexane

(log) Koc

Parameter	Method	Value	Value determination
log Koc		3.34	QSAR

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	91.6 %	0 %	0.7 %	2.8 %	4.9 %	Calculated value

cyclohexane

(log) Koc

Parameter	Method	Value	Value determination
log Koc		2.89	QSAR

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

NOVELEC

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)

propan-2-ol

Groundwater

Groundwater pollutant

cyclohexane

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 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.

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)

Reason for revision: 3.2; 9 Publication date: 2007-01-10
Date of revision: 2019-05-21

Revision number: 0402 Product number: 44641 17 / 22

Hazard identification number	
Class	2
Classification code	5F
4.4. Packing group	<u>I~.</u>
Packing group	
Labels	2.1
4. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	yes
4.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)
(RID)	, , , , , , , , , , , , , , , , , , , ,
4.1. UN number	
UN number	1950
	1330
4.2. UN proper shipping name	
Proper shipping name	Aerosols
4.3. Transport hazard class(es)	
Hazard identification number	23
Class	2
Classification code	5F
	JF
4.4. Packing group	
Packing group	
Labels	2.1
4.5. Environmental hazards	
Environmentally hazardous substance mark	yes
4.6. Special precautions for user	1,~~
	100
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
reminica additituos	recommunication packagenies, not more utall 1 litel Del little Datakaging 10
	liquids. A package shall not weigh more than 30 kg. (gross mass)
nd waterways (ADN)	
nd waterways (ADN) 4.1. UN number	
nd waterways (ADN)	
nd waterways (ADN) 4.1. UN number UN number	liquids. A package shall not weigh more than 30 kg. (gross mass)
nd waterways (ADN) 4.1. UN number UN number 4.2. UN proper shipping name	liquids. A package shall not weigh more than 30 kg. (gross mass) 1950
nd waterways (ADN) 4.1. UN number UN number 4.2. UN proper shipping name Proper shipping name	liquids. A package shall not weigh more than 30 kg. (gross mass)
nd waterways (ADN) 4.1. UN number UN number 4.2. UN proper shipping name Proper shipping name 4.3. Transport hazard class(es)	liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols
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nd waterways (ADN) 4.1. UN number UN number 4.2. UN proper shipping name Proper shipping name 4.3. Transport hazard class(es) Class	liquids. A package shall not weigh more than 30 kg. (gross mass) 1950 Aerosols
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Reason for revision: 3.2; 9 Publication date: 2007-01-10 Date of revision: 2019-05-21

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Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	63
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
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	e IBC Code
Annex II of MARPOL 73/78	Not applicable

Air (ICAO-TI/IATA-DGR)

1950
Aerosols, flammable
2.1
2.1
yes
A145
A167
A802
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
100 %	
729.059 g/l	

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

≥30% aliphatic 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.

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
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics propan-2-ol hydrocarbons, C6, isoalkanes, < 5% n-hexane n-hexane cyclohexane	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";

Reason for revision: 3.2; 9 Publication date: 2007-01-10
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		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.'
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics propan-2-ol hydrocarbons, C6, isoalkanes, < 5% n-hexane n-hexane cyclohexane	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, — "whoopee" 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.
· cyclohexane	Cyclohexane	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g. 2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. 3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows: "— This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying.".

National legislation Belgium NOVELEC

No data available

National legislation The Netherlands

NOVELEC	
Waterbezwaarlijkheid	Z (2); Algemene Beoordelingsmethodiek (ABM)
<u>n-hexane</u>	
SZW - Lijst van voor de	n-Hexaan; 2; Suspected of damaging fertility.
voortplanting giftige stoffen	
(vruchtbaarheid)	

National legislation France NOVELEC

No data available

<u>n-hexane</u>

Catégorie toxique pour la	n-Hexane; R2
reproduction	

National legislation Germany

NOVELEC	
WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
hydrocarbons, C7, n-alkanes, isoall	kanes, cyclics
TA-Luft	5.2.5/I
propan-2-ol	
TA-Luft	5.2.5
TRGS900 - Risiko der	Propan-2-ol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden
hydrocarbons, C6, isoalkanes, < 5%	<u>6 n-hexane</u>
TA-Luft	5.2.5/I
TA-LUIT	2.2.5/1

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TA-Luft	5.2.5/I			
TRGS900 - Risiko der	n-Hexan; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen			
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden			
<u>cyclohexane</u>				
TA-Luft	5.2.5/I			

National legislation United Kingdom

NOVELEC

No data available

Other relevant data

NOVELEC

No data available

propan-2-ol

-					
	IARC - classification	3; Isopropanol			
	TLV - Carcinogen	2-propanol; A4			
<u>n</u>	<u>-hexane</u>				
	Skin absorption	n-Hexane: Skin: Danger of cutaneous absorption			

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

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

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361f Suspected of damaging fertility.

H373 May cause damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

 ${\sf H411\ \ Toxic\ to\ aquatic\ life\ with\ long\ lasting\ effects}.$

(*) 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

cyclohexane	1	Acute	ECHA

Specific concentration limits CLP

n-hexane	C ≥ 5 %	STOT RE 2; H373	CLP Annex VI (ATP 0)
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