SAFETY DATA SHEET

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



WP7-201

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

1.1. Product identifier

Product name : WP7-201

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

Sealing compound

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

TEC7*

Industrielaan 5B

B-2250 Olen

2 +32 14 85 97 37

4 +32 14 85 97 38

info@tec7.be

*TEC7 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@novatech.be

1.4. Emergency telephone number

 $24h/24h \ (Telephone \ advice: English, French, German, \ Dutch):$

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Aerosol	category 1	H222: Extremely flammable aerosol.
Aerosol	category 1	H229: Pressurised container: May burst if heated.
Skin Irrit.	category 2	H315: Causes skin 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: n-butyl acetate; hydrocarbons, C7, n-alkanes, isoalkanes, cyclics.

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

P-statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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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.
P405	Store locked up.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122°F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

2.3. Other hazards

Gas/vapour spreads at floor level: ignition hazard

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
dimethyl ether 01-2119472128-37	115-10-6 204-065-8	25% <c<50%< td=""><td>Flam. Gas 1A; H220 Press. Gas - Liquefied gas;</td><td>(1)(2)(10)</td><td>Constituent</td></c<50%<>	Flam. Gas 1A; H220 Press. Gas - Liquefied gas;	(1)(2)(10)	Constituent
n-butyl acetate 01-2119485493-29	123-86-4 204-658-1	10% <c<25%< td=""><td>Flam. Liq. 3; H226 STOT SE 3; H336</td><td>(1)(2)(10)</td><td>Constituent</td></c<25%<>	Flam. Liq. 3; H226 STOT SE 3; H336	(1)(2)(10)	Constituent
hydrocarbons, C7, n-alkanes, isoalkanes, cyclics 01-2119475515-33		10% <c<25%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td></c<25%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics 01-2119473851-33		5% <c<10%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td></c<10%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane 01-2119475514-35		5% <c<10%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td></c<10%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
hydrocarbons, C9, aromatics 01-2119455851-35		3% <c<5%< td=""><td>Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>Constituent</td></c<5%<>	Flam. Liq. 3; H226 Asp. Tox. 1; H304 STOT SE 3; H335 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

After inhalation:

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

After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

After eye contact:

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

After ingestion:

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

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

4.2.1 Acute symptoms

After inhalation:

Dizziness. Narcosis.

After skin contact:

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⁽²⁾ Substance with a Community workplace exposure limit

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

Tingling/irritation of the skin.

After eye contact:

No effects known.

After ingestion:

No effects known.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

Major fire: Quantities of water.

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Physical explosion risk: extinguish/cool from behind cover. Do not move the load if exposed to heat. After cooling: 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 (EN 374). Protective goggles (EN 166). Head/neck protection. Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Stop engines and no smoking. No naked flames or sparks. Spark- and explosionproof appliances and lighting equipment.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

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

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Dam up the liquid spill.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. Keep away from naked flames/heat. Keep away from ignition sources/sparks. Gas/vapour heavier than air at 20°C. 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. Keep container in a well-ventilated place. Fireproof storeroom. Keep out of direct sunlight. Meet the legal requirements.

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Aerosol.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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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.

Dimethylether	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1000 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1920 mg/m³
n-Butyl acetate	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	50 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	241 mg/m ³
	Short time value (Indicative occupational exposure limit value)	150 ppm
	Short time value (Indicative occupational exposure limit value)	723 mg/m ³

Belgium

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Acétate de n-butyle	Time-weighted average exposure limit 8 h	50 ppm
	Time-weighted average exposure limit 8 h	238 mg/m ³
	Short time value	150 ppm
	Short time value	712 mg/m³
Oxyde de diméthyle	Time-weighted average exposure limit 8 h	1000 ppm
	Time-weighted average exposure limit 8 h	1920 mg/m³

The Netherlands

Dimethylether	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	496 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	950 mg/m³
	Short time value (Public occupational exposure limit value)	783 ppm
	Short time value (Public occupational exposure limit value)	1500 mg/m³

France

riance		
Acétate de n-butyle	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	150 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	710 mg/m ³
	Short time value (VL: Valeur non réglementaire indicative)	200 ppm
	Short time value (VL: Valeur non réglementaire indicative)	940 mg/m³
Oxyde de diméthyle	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1000 ppm
	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	1920 mg/m³

Germany

Dimethylether	Time-weighted average exposure limit 8 h (TRGS 900)	1000 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1900 mg/m ³
n-Butylacetat	Time-weighted average exposure limit 8 h (TRGS 900)	62 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	300 mg/m ³

UK

Butyl acetate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	150 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	724 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	200 ppm
	Short time value (Workplace exposure limit (EH40/2005))	966 mg/m³
Dimethyl ether	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))	766 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	958 mg/m³

USA (TLV-ACGIH)

Butyl acetates, all isomers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	50 ppm
	Short time value (TLV - Adopted Value)	150 ppm

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b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number	
Butyl acetate (Volatile Organic compounds)	NIOSH	2549	
n-Butyl Acetate (Esters I)	NIOSH	1450	
n-Butyl Acetate	OSHA	1009	

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

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

8.1.4 Threshold values

DNEL/DMEL - Workers

<u>dimethyl ether</u>				
Effect level (DNEL/DMEL)	Туре	Value	Remark	
DNEL	Long-term systemic effects inhalation	1894 mg/m³		
n-butyl acetate				
Effect level (DNEL/DMEL)	Type	Value	Remark	
DNEL	Long-term systemic effects inhalation	300 mg/m ³		
	Acute systemic effects inhalation	600 mg/m ³		
	Long-term local effects inhalation	300 mg/m ³		
	Acute local effects inhalation	600 mg/m ³		
	Long-term systemic effects dermal	11 mg/kg bw/day		
	Acute systemic effects dermal	11 mg/kg bw/day		
hydrocarbons, C7, n-alkanes, isoalk	anes, cyclics	•	•	
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		
hydrocarbons, C7-C9, n-alkanes, isc	palkanes, cyclics	·		
Effect level (DNEL/DMEL)	Type	Value	Remark	
DNEL	Long-term systemic effects inhalation	2035 mg/m³		
	Long-term systemic effects dermal	773 mg/kg bw/day		
hydrocarbons, C6-C7, n-alkanes, isc	palkanes, cyclics, < 5% n-hexane			

	Effect level (DNEL/DMEL)	Туре	Value	Remark
	DNEL	Long-term systemic effects inhalation	2035 mg/m ³	
		Long-term systemic effects dermal	773 mg/kg bw/day	
h	vdrocarbons, C9, aromatics			

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	150 mg/m³	
	Long-term systemic effects dermal	25 mg/kg bw/day	

DNEL/DMEL - General population dimethyl ether

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L	Effect level (DNEL/DMEL)	Туре	Value	Remark
	DNEL	Long-term systemic effects inhalation	471 mg/m³	
n-	n-butyl acetate			
г				

Туре	Value	Remark
Long-term systemic effects inhalation	35.7 mg/m ³	
Acute systemic effects inhalation	300 mg/m³	
Long-term local effects inhalation	35.7 mg/m ³	
Acute local effects inhalation	300 mg/m³	
Long-term systemic effects dermal	6 mg/kg bw/day	
Acute systemic effects dermal	6 mg/kg bw/day	
Long-term systemic effects oral	2 mg/kg bw/day	
Acute systemic effects oral	2 mg/kg bw/day	
	Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Acute systemic effects dermal Long-term systemic effects oral	Long-term systemic effects inhalation 35.7 mg/m³ Acute systemic effects inhalation 300 mg/m³ Long-term local effects inhalation 35.7 mg/m³ Acute local effects inhalation 300 mg/m³ Long-term systemic effects dermal 6 mg/kg bw/day Acute systemic effects dermal 6 mg/kg bw/day Long-term systemic effects oral 2 mg/kg bw/day

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	
b. d 67 60	and an arrival trans		

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	608 mg/m³	
Long-term systemic effects dermal		699 mg/kg bw/day	
	Long-term systemic effects oral	699 mg/kg bw/day	

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	608 mg/m³	
	Long-term systemic effects dermal	699 mg/kg bw/day	
	Long-term systemic effects oral	699 mg/kg bw/day	

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hydrocarbons, C9, aromatics

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	32 mg/m³	
	Long-term systemic effects dermal	11 mg/kg bw/day	
	Long-term systemic effects oral	11 mg/kg bw/day	

PNEC

dimethyl ether

Compartments	Value	Remark
Fresh water	0.155 mg/l	
Fresh water (intermittent releases)	1.549 mg/l	
Marine water	0.016 mg/l	
STP	160 mg/l	
Fresh water sediment	0.681 mg/kg sediment dw	
Marine water sediment	0.069 mg/kg sediment dw	
Soil	0.045 mg/kg soil dw	

n-butyl acetate

Compartments	Value	Remark
Fresh water	0.18 mg/l	
Fresh water (intermittent releases)	0.36 mg/l	
Marine water	0.018 mg/l	
STP	35.6 mg/l	
Fresh water sediment	0.981 mg/kg sediment dw	
Marine water sediment	0.098 mg/kg sediment dw	
Soil	0.09 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. Take precautions against electrostatic charges. 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	Remark
viton	> 240 minutes	0.12 mm	Class 5	

c) Eye protection:

Protective goggles (EN 166).

d) Skin protection:

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

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	Aerosol
Odour	Characteristic odour
Odour threshold	No data available in the literature
Colour	Colourless
Particle size	Not applicable (aerosol)
Explosion limits	No data available in the literature
Flammability	Extremely flammable aerosol.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
Boiling point	94 °C - 99 °C ; Liquid
Evaporation rate	No data available in the literature
Relative vapour density	No data available in the literature
Vapour pressure	No data available in the literature
Solubility	Water ; insoluble
Relative density	1.04 ; 20 °C ; Liquid
Decomposition temperature	No data available in the literature

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

9.2. Other information

Absolute density	1040 kg/m³ ; 20 °C ; Liquid	
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Unstable on exposure to heat.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

Use spark-/explosionproof appliances and lighting system. Take precautions against electrostatic charges. 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

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No (test)data on the mixture available

Judgement is based on the relevant ingredients

dimethyl ether

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral						Data waiving	
Dermal						Data waiving	
Inhalation (gases)	LC50		164000 ppm	4 h	Rat (male)	Experimental value	

As the substance is a gas, inhalation is the most likely route of exposure

n-butyl acetate

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 423	10760 mg/kg bw - 12789 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 14112 mg/kg bw		Rabbit (male / female)	Experimental value	
Inhalation (mixture of vapour and aerosol)	LC50	OECD 403	0.74 mg/l		Rat (male / female)		

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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		> 2800 mg/kg bw		Rat (male / female)	Read-across	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 23.3 mg/l air		Rat (male / female)	Read-across	

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Route of exposur			Value	Exposure time	Species	Value	Remark
•				·	•	determination	22111
Oral	LD50	Equivalent to OECD 401	> 5840 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50		≥ 4 ml/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50		> 2920 mg/kg bw	24 h	Rat (male / female)	Experimental value	
Inhalation (vapou	ırs) LC50	Equivalent to OECD 403	> 23.3 mg/l air		Rat (male / female)	Experimental value	
drocarbons, C6-C7,	, n-alkanes, isoal	kanes, cyclics, < 5% n-	I hexane		,		l .
Route of exposur	e Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 5840 mg/kg bw		Rat (male / female)	Read-across	
Dermal	LD50		> 2800 mg/kg bw	24 week(s)	Rat (male / female)	Similar product	
Inhalation (vapou	ırs) LC50		> 25.2 mg/l	4 h	Rat (male /	Experimental value	
drocarbons, C9, ard	omatics				female)		
Route of exposur		Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50		> 6984 mg/kg bw		Rat (male)	Experimental value	
Oral	LD50		3492 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 3160 mg/kg bw	24 h	Rabbit (male / female)	Experimental value	
Inhalation (vapou	ırs) LC50	Equivalent to OECD 403	> 6.193 mg/l air	4 h	Rat (male / female)	Experimental value	
<u>201</u> Io (test)data on the lassification is based							
<u>201</u> Io (test)data on the lassification is based	d on the relevant		Exposure time	Time point	Species	Value	Remark
-201 Io (test)data on the lassification is based imethyl ether Route of exposure	d on the relevant	t ingredients	Exposure time	Time point	Species	determination	Remark
201 Io (test)data on the lassification is based methyl ether Route of exposure	d on the relevant	t ingredients	Exposure time	Time point	Species	determination Data waiving	Remark
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin	Result	Method		Time point	Species	determination	Remark
201 lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form of	Result	t ingredients		Time point	Species	determination Data waiving	Remark
201 o (test)data on the assification is based methyl ether Route of exposure Eye Skin The liquid form of	d on the relevant Result an cause frostbit	Method		Time point Time point	Species Species	determination Data waiving Data waiving Value	Remark Remark
201 o (test)data on the assification is based methyl ether Route of exposure Eye Skin The liquid form countyl acetate	d on the relevant Result an cause frostbit	Method tes, typical for all lique	fied gases			determination Data waiving Data waiving Value determination Experimental	Remark Single treatme
lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form cabutyl acetate Route of exposure	Result an cause frostbit	Method tes, typical for all lique Method OECD 405 Equivalent to	fied gases	Time point	Species	determination Data waiving Data waiving Value determination Experimental value Experimental	Remark Single treatme
201 lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form co-butyl acetate Route of exposure Eye Dermal	Result Result Result Not irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404	fied gases Exposure time	Time point 24; 48; 72 hours	Species Rabbit	determination Data waiving Data waiving Value determination Experimental value	Remark Single treatme
201 lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form co-butyl acetate Route of exposure Eye Dermal	Result an cause frostbit Result Not irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404	fied gases Exposure time	Time point 24; 48; 72 hours	Species Rabbit	determination Data waiving Data waiving Value determination Experimental value Experimental value Value Value	Remark
lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form cabutyl acetate Route of exposure Eye Dermal	Result an cause frostbit Result Not irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 DESC Cyclics	fied gases Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours	Species Rabbit Rabbit	determination Data waiving Data waiving Value determination Experimental value Experimental value	Remark Single treatme without rinsin
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin The liquid form cabutyl acetate Route of exposure Eye Dermal Route of exposure	Result Result Result Not irritating Not irritating Not irritating Result Result	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 DESC Cyclics	fied gases Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point	Species Rabbit Rabbit Species	determination Data waiving Data waiving Value determination Experimental value Experimental value Value determination	Remark Single treatme without rinsing Remark
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin The liquid form coutyl acetate Route of exposure Eye Dermal vdrocarbons, C7, n-a Route of exposure Eye Skin	Result Not irritating Not irritating Result Not irritating Not irritating Not irritating Inritating Result Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404	fied gases Exposure time 4 h Exposure time	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days	Species Rabbit Rabbit Species Rabbit	determination Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across	Remark Single treatme without rinsing Remark
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin The liquid form coutyl acetate Route of exposure Eye Dermal vdrocarbons, C7, n-a Route of exposure Eye Skin	Result Result Result Not irritating Not irritating Result Not irritating Indianes, isoalkare Result Not irritating Irritating Irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404	fied gases Exposure time 4 h Exposure time	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days	Species Rabbit Rabbit Species Rabbit	determination Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across	Remark Single treatme without rinsing Remark
lo (test)data on the lassification is based methyl ether Route of exposure Eye Skin The liquid form cabutyl acetate Route of exposure Eye Dermal vdrocarbons, C7, n-a Route of exposure Eye Skin	Result Result Result Not irritating Not irritating Result Not irritating Indianes, isoalkare Result Not irritating Irritating Irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404 Aleas, cyclics	fied gases Exposure time 4 h Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days 24; 48; 72 hours	Species Rabbit Rabbit Species Rabbit Rabbit	determination Data waiving Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across Read-across Value determination Experimental	Remark Single treatme without rinsin Remark Single treatme
Eye Skin The liquid form co-butyl acetate Route of exposure Eye Dermal ydrocarbons, C7, n-a Route of exposure Eye Skin Route of exposure	Result Result Result Not irritating Not irritating Not irritating Indianal Irritating Irritating Irritating Irritating Irritating Result Result	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404 Aleas, cyclics	fied gases Exposure time 4 h Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days 24; 48; 72 hours	Species Rabbit Rabbit Species Rabbit Rabbit Species	determination Data waiving Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across Read-across Read-across Experimental value Experimental value Experimental value Experimental	Remark Single treatment without rinsing Remark Single treatment reatment
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin The liquid form cobutyl acetate Route of exposure Eye Dermal ydrocarbons, C7, n-a Route of exposure Eye Skin Foute of exposure Eye Skin	Result An cause frostbit Result Not irritating Not irritating Not irritating Irritating Irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404 Method Equivalent to OECD 404 Method Method	fied gases Exposure time 4 h Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days 24; 48; 72 hours Time point	Species Rabbit Rabbit Species Rabbit Rabbit Rabbit Rabbit	determination Data waiving Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across Read-across Value determination Experimental value	Remark Single treatment without rinsing Remark Single treatment reatment
lo (test)data on the lassification is based imethyl ether Route of exposure Eye Skin The liquid form cobutyl acetate Route of exposure Eye Dermal ydrocarbons, C7, n-a Route of exposure Eye Skin Foute of exposure Eye Skin	Result An cause frostbit Result Not irritating Not irritating Not irritating Irritating Irritating Irritating Not irritating Irritating Not irritating Irritating Not irritating Irritating Not irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 nes, cyclics Method Equivalent to OECD 404 Method OECD 404 COECD 404 COECD 404 COECD 404	fied gases Exposure time 4 h Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days 24; 48; 72 hours Time point	Species Rabbit Rabbit Species Rabbit Rabbit Rabbit Rabbit	determination Data waiving Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across Read-across Read-across Experimental value Experimental value Experimental value Experimental	Remark Single treatment without rinsing Remark Single treatment reatment
201 o (test)data on the assification is based methyl ether Route of exposure Eye Skin The liquid form cobutyl acetate Route of exposure Eye Dermal Adrocarbons, C7, n-a Route of exposure Eye Skin Adrocarbons, C7-C9, Route of exposure Eye Skin Adrocarbons, C7-C9, Route of exposure Eye Skin	Result An cause frostbit Result Not irritating Not irritating Not irritating Irritating Irritating Irritating Not irritating Irritating Not irritating Irritating Not irritating Irritating Not irritating Not irritating	Method tes, typical for all lique Method OECD 405 Equivalent to OECD 404 Des, cyclics Method Equivalent to OECD 404 Method OECD 404 Method OECD 404 Method	fied gases Exposure time 4 h Exposure time 4 h Exposure time 4 h	Time point 24; 48; 72 hours 24; 48; 72 hours Time point 7 days 24; 48; 72 hours Time point 24; 48; 72 hours	Species Rabbit Rabbit Species Rabbit Rabbit Rabbit Rabbit Rabbit	determination Data waiving Data waiving Data waiving Value determination Experimental value Experimental value Value determination Read-across Read-across Read-across Experimental value Experimental value Experimental value Experimental value Experimental value Value	Remark Single treatment without rinsing Remark Single treatment Remark Single treatment Single treatment

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hydrocarbons, C9, aromatics

Route of exposure	Result	Method	Exposure time	Time point			Remark
						determination	
Eye	Not irritating	Equivalent to		1; 24; 48; 72 hours	Rabbit	Experimental	
		OECD 405				value	
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental	
						value	
Inhalation	Irritating; STOT SE cat.3					Literature study	

Conclusion

Causes skin irritation.

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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No (test)data on the mixture available

Judgement is based on the relevant ingredients <u>dimethyl ether</u>

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin					Data waiving	

The study on skin sensitisation does not need to be conducted as the substance is a gas

n-butyl acetate

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

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

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

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

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

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

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

hydrocarbons, C9, aromatics

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

Conclusion

Not classified as sensitizing for skin

Not classified as sensitizing for inhalation

Specific target organ toxicity

No (test)data on the mixture available

Classification is based on the relevant ingredients

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ile triyi etrici								
Route of exposur	re Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
								determination
Oral								Data waiving
Dermal								Data waiving
Inhalation	NOAEC	Equivalent to	47106 mg/m ³		No adverse	2 year(s) (6h / day, 5	Rat (male /	Experimental
(vapours)	systemic	OECD 452			systemic	days / week)	female)	value
	effects				effects			

As the substance is a gas, inhalation is the most likely route of exposure

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Subchronic toxicity test	125 mg/kg bw/day		No effect	13 week(s)	Rat (male / female)	Read-across
Oral (stomach tube)	LOAEL	Subchronic toxicity test	500 mg/kg bw/day	Central nervous system	Central nervous system depression	13 day(s)	Rat (male / female)	Read-across
Inhalation (vapours)	NOAEC	EPA OTS 798.2450	500 ppm		No adverse systemic effects	13 weeks (daily, 5 days / week)	Rat (male / female)	Experimenta value
lrocarbons, C7, n-alk	anes, isoalka	nes, cyclics						
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEL	Equivalent to OECD 413	12350 mg/m ³ air		No adverse systemic effects	26 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across
Inhalation (vapours)	LOAEL	Equivalent to OECD 413	1650 mg/m³ air	Central nervous system	CNS depression	26 weeks (6h / day, 5 days / week)	Rat (male / female)	Read-across
rocarbons, C7-C9, n-	alkanes, isoa	alkanes, cyclics						
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5800 mg/m ³ air	Blood	No effect	13 weeks (6h / day, 5 days / week)	Rat (male)	Experimenta value
lrocarbons, C6-C7, n-					•	•		
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (vapours)	NOAEC		4200 mg/m ³ air		No effect	3 days (8h / day)	Rat (male)	Experimenta value
Inhalation (vapours)	NOAEC		14000 mg/m³		no neurotoxic effects	3 days (8h / day)	Rat (male)	Experimenta value
			STOT SE cat.3		Drowsiness, dizziness			Annex VI
lrocarbons, C9, arom	atics		_					
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (stomach tube)	NOAEL	Equivalent to OECD 408	600 mg/kg bw/day		No effect	13 weeks (daily)	Rat (male / female)	Read-across
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 452	1800 mg/m³ air		No effect	52 weeks (6h / day, 5 days / week)	Rat (male)	Read-across
	+	1	STOT SE cat.3	+		 	+	Literature stu

May cause drowsiness or dizziness. Not classified for subchronic toxicity

Mutagenicity (in vitro)

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No (test)data on the mixture available

Judgement is based on the relevant ingredients dimethyl ether

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value	
activation, negative					
without metabolic					
activation					
Negative with metabolic	OECD 473	Human lymphocytes	No effect	Experimental value	
activation, negative					
without metabolic					
activation					
butyl acetate					

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

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Ne	sult		Method	-	T	est subs	trate	Effect		Value det	ermination	Remark
act wit	egative with tivation, neg thout metab tivation	gative	OECD 476				mphocytes	No effect		Read-acro		
nydroc	carbons, C7-	C9, n-alkane	s, isoalkane	es, cyclics								-
	sult		Method			est subs		Effect		<u> </u>	ermination	Remark
act wit	egative with tivation, neg thout metab tivation	gative	Equivalent	t to OECD	471 B	acteria (S.typhimurium)	No effect		Experime	ntal value	
nydroc	carbons, C6-	C7, n-alkane	s, isoalkane	es, cyclics,	< 5% n-he	<u>xane</u>						_
	sult		Method		T.	est subs	trate	Effect			ermination	Remark
	egative carbons, C9,	aromatics	OECD 476					No effect		Read-acro	SS	
_	sult	aromatics	Method		т	est subs	trate	Effect		Value det	ermination	Remark
act wit	egative with tivation, neg ithout metab tivation	gative	Equivalent	t to OECD	471 B	acteria (S.typhimurium)	No effect		Experime	ntal value	
Res	ment is base <u>hyl ether</u> s ult egative (Inha			Method Equivale	nt to OECD		ure time (s) - 14 day(s)	Test substrate Drosophila mel	anogaster	Organ		Value determina Experimental val
				477				(male)				
	<u>l acetate</u>			Method		F.v		Test substrate		0		Value determinat
	egative (Oral	(stomach ti	ıhe))	OECD 47	4	Expos	ure time	Mouse (male /	female)	Organ		Read-across
	carbons, C7-				•	ļ		inouse (male)	·c···a·c _j			
Res	sult			Method		Expos	ure time	Test substrate		Organ		Value determinat
Ne	egative				nt to OECD			Mouse (male)		Bone mar	row	Experimental valu
vdroc	carbons, C9,	aromatics		474						ļ		
	sult	<u>uromatics</u>		Method		Expos	ure time	Test substrate		Organ		Value determinat
Ne	egative			Equivale	nt to OECD			Rat (male)		Bone mar	row	Experimental valu
nclusi	ion			475								
Not cla ogeni o	est)data on tl		ıvailable									
No (te: Judger <u>dimeth</u>	hyl ether	D			Malera.		·	Currier	F# +		0	V-I
No (test ludger limeth	hyl ether	Parameter	Method		Value	E	Exposure time	Species	Effect		Organ	Value determinati
No (test Judger dimeth Rou exp	hyl ether oute of posure	Parameter NOAEL			Value 2.5 %		Exposure time 2 year(s) (6h / day,	·		rcinogenic	Organ	
No (test Judger dimeth Rou exp Inh (va	hyl ether oute of posure halation apours)	NOAEL	Method Equivale OECD 45	nt to						rcinogenic	Organ	determinati
No (test Judger Judger Rou exp Inh (va	hyl ether oute of posure halation apours) carbons, C7,	NOAEL n-alkanes, is	Method Equivale OECD 45	nt to 53 cyclics	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenta value
No (test Judger Judger Rou exp Inh (va nydroc	pute of posure halation apours) carbons, C7,	NOAEL	Method Equivale OECD 45	nt to 53 cyclics			2 year(s) (6h / day,	5 Rat (male /	No ca	rcinogenic	Organ Organ	determinati Experimenta value
No (test Judger Judger Judger Inh (va nydroc Rou exp	hyl ether oute of posure halation apours) carbons, C7,	NOAEL n-alkanes, is	Method Equivale OECD 45	nt to 53 cyclics	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenta value
No (test Judger Judger Hou exp Inh (va nydroc Rou exp Inh	pute of posure halation apours) carbons, C7, pute of posure	NOAEL n-alkanes, is	Method Equivale OECD 45	nt to 53 cyclics	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenta value Value determinati
No (test Judger Judger Hou exp Inh (va nydroc Rou exp Inh	hyl ether pute of posure halation apours) carbons, C7, pute of posure halation ermal	NOAEL n-alkanes, is	Method Equivale OECD 45	nt to 53 cyclics	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenta value Value determinati Data waivin
No (test Judger Judger Rou exp Inh (va mydroc Rou exp Inh De	hyl ether pute of posure halation apours) carbons, C7, pute of posure halation ermal	NOAEL n-alkanes, is Parameter	Method Equivale OECD 45 Soalkanes, G Method	nt to 63 cyclics	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenta value Value determinati Data waivin Data waivin
No (test Judger Judger Rou exp Inh (va nydroc Rou exp Inh De Ora	hyl ether posure halation apours) carbons, C7, pute of posure halation ermal ral carbons, C7- pute of	NOAEL n-alkanes, is Parameter	Method Equivale OECD 45 Soalkanes, G Method	ent to	2.5 %		2 year(s) (6h / day, days / week)	5 Rat (male / female)	No ca effect	rcinogenic		determinati Experimenti value Value determinati Data waivin Data waivin Value Value
Judger Ju	hyl ether posure halation apours) carbons, C7, pute of posure halation ermal ral carbons, C7- pute of posure	NOAEL n-alkanes, is Parameter C9, n-alkane	Method Equivale OECD 45 Soalkanes, o Method	ent to	2.5 % Value		2 year(s) (6h / day, days / week) Exposure time	5 Rat (male / female) Species	No ca effect	rcinogenic	Organ	determinati Experiment value Value determinati Data waivin Data waivin Value determinati
No (test Judger dimeth Rou exp Inh Oran ydroc Rou exp Inh Oran ydroc Rou exp Un	hyl ether posure halation apours) carbons, C7, pute of posure halation ermal ral carbons, C7- pute of posure halation ermal ral carbons, C7- pute of posure halation	NOAEL n-alkanes, is Parameter C9, n-alkane Parameter	Method Equivale OECD 45 Soalkanes, o Method	ent to	2.5 % Value		2 year(s) (6h / day, days / week) Exposure time	5 Rat (male / female) Species	No ca effect	rcinogenic	Organ	determinati Experiment value Value determinati Data waivin Data waivin Value determinati
No (te:subudgers) Roue exp Inh (va exp Inh De Oranydroco Roue exp Un nydroco	hyl ether posure halation apours) carbons, C7, pute of posure halation ermal carbons, C7- pute of posure halation ermal carbons, C7- pute of posure halation carbons, C7- pute of posure nknown carbons, C9,	NOAEL n-alkanes, is Parameter C9, n-alkane Parameter aromatics	Method Equivale OECD 45 Soalkanes, o Method Method Method	nt to i3 cyclics	2.5 % Value Value	E	2 year(s) (6h / day, days / week) Exposure time	5 Rat (male / female) Species Species	No ca effect Effect	rcinogenic	Organ Organ	Value determinati Data waivin Data waivin Data waivin Data waivin Data waivin
No (testable distribution of the state of th	hyl ether posure halation apours) carbons, C7, pute of posure halation ermal ral carbons, C7- pute of posure halation ermal ral carbons, C7- pute of posure halation carbons, C7- pute of posure nknown carbons, C9,	NOAEL n-alkanes, is Parameter C9, n-alkane Parameter	Method Equivale OECD 45 Soalkanes, o Method	nt to i3 cyclics	2.5 % Value	E	2 year(s) (6h / day, days / week) Exposure time	5 Rat (male / female) Species	No ca effect	rcinogenic	Organ	determinati Experimenti value Value determinati Data waivin Data waivin Value determinati

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Reproductive toxicity

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

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
Developmental toxicity (Inhalation (vapours))	NOAEL	Equivalent to OECD 414	40000 ppm	10 days (6h / day)	Rat	No effect		Experimental value
Maternal toxicity (Inhalation (vapours))	NOAEL	Equivalent to OECD 414	5000 ppm	10 days (6h / day)	Rat	No effect		Experimental value
Effects on fertility (Inhalation (vapours))	NOAEL	Investigation reproductive capacity	2.5 %	2 year(s) (6h / day, 5 days / week)	Rat (male / female)	No effect		Experimental value
utyl acetate	•	•	•	•	•	•		
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
Developmental toxicity (Inhalation (vapours))	LOAEC	Equivalent to OECD 414	1500 ppm		Rat	Fetotoxicity		Experimenta value
Maternal toxicity (Inhalation (vapours))	LOAEC	Equivalent to OECD 414	1500 ppm		Rat	Maternal toxicity		Experimenta value
Effects on fertility (Inhalation (vapours))	NOAEC	OECD 416	2000 ppm	> 90 day(s)	Rat (male / female)	No effect		Experimenta value
rocarbons, C7, n-alkanes	, isoalkanes, cyc	ics	1	1	,	l .	l	
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatio
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
rocarbons, C7-C9, n-alka	nes, isoalkanes,	cyclics						
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	31680 mg/m³ air	10 day(s)	Rat	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	3168 mg/m³ air	10 day(s)	Rat	No effect		Read-across
	LOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 day(s)	Rat	Discolouration	Lungs	Read-across
Effects on fertility	NOAEL	Equivalent to OECD 416	31680 mg/m³ air	13 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Read-across
rocarbons, C6-C7, n-alka	nes, isoalkanes,	cyclics, < 5% n-h	<u>exane</u>					
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC		≥ 1200 ppm	10 days (6h / day)	Rat	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	900 ppm	10 days (6h / day)	Rat (female)	No effect		Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	9000 ppm		Rat (male / female)	No effect		Read-across
rocarbons, C9, aromatics	5							
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC		100 ppm	10 day(s)	Mouse	No effect		Experimenta value
	LOAEC		500 ppm	10 day(s)	Mouse	Reduced foetal bodyweights	Foetus	Experimenta value
					1	No effect	l	Experimenta
Maternal toxicity	NOAEC		100 ppm	10 day(s)	Mouse	No effect		value
Maternal toxicity			100 ppm 500 ppm	10 day(s)	Mouse	Body weight reduction	General	

Conclusion

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Not classified for reprotoxic or developmental toxicity

Toxicity other effects

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n-butyl acetate

Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
NOEC	EPA OTS 798.6050	1500 ppm		Hypoactivity			Experimental value
NOAEC	EPA OTS 798.6050	500 ppm		no neurotoxic effects	13 week(s)	` '	Experimental value

hydrocarbons, C9, aromatics

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

Chronic effects from short and long-term exposure

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No effects known.

SECTION 12: Ecological information

12.1. Toxicity

WP7-201

No (test)data on the mixture available

Judgement of the mixture is based on the relevant ingredients

dimethyl ether

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	NEN 6504	> 4100 mg/l	96 h	Poecilia reticulata	Semi-static system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	EC50	NEN 6501	> 4400 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Lethal
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	154.9 mg/l	96 h	Algae			QSAR
Toxicity aquatic micro- organisms	EC10		> 1600 mg/l		Pseudomonas putida	Static system	Fresh water	Literature study; Respiration

<u>n-butyl</u>	<u>acetate</u>

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	18 mg/l	96 h	Pimephales promelas	Flow- through system	Fresh water	Experimental value; Lethal
Acute toxicity crustacea	EC50	Equivalent to OECD 202	44 mg/l	48 h	Daphnia sp.	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aquatic plants	ErC50	OECD 201	397 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Read-across; GLP
	NOEC	OECD 201	196 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Read-across; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	23.2 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Read-across; Reproduction
Toxicity aquatic micro- organisms								Growth

	Parameter	Method	Value	Duration	Species	Value determination
Toxicity terrestrial plants	EC50	Equivalent to OECD	> 1000 mg/kg soil	14 day(s)	Lactuca sativa	Experimental value
		208	dw			

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	Parameter	Method	Value	Duration	Species	Test design	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
Toxicity algae and other aquatic plants	EL50	OECD 201	13 mg/l WAF	96 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Read-across; GLP
Long-term toxicity fish	NOELR		1.534 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR; Nominal concentration
Toxicity aquatic micro- organisms	EL50		26.81 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth rate
drocarbons, C7-C9, n-alkanes	, isoalkanes, cyc	<u>lics</u>						
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	3 mg/l - 10 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value;
Acute toxicity crustacea	EC50	OECD 202	4.6 mg/l - 10.0 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EL50	OECD 201	10 mg/l - 30 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value;
	NOELR	OECD 201	10 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value;
Long-term toxicity fish	NOELR		0.574 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR; Growth rate
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.17 mg/l	21 day(s)	Daphnia magna	Static system	Fresh water	Experimental value;
drocarbons, C6-C7, n-alkanes	, isoalkanes, cyc	lics, < 5% n-he	<u>xane</u>				•	•
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinatio
Acute toxicity fishes	LL50	OECD 203	11.4 mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value;
Acute toxicity crustacea	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value;
Toxicity algae and other aquatic plants	EL50	OECD 201	30 mg/l WAF - 100 mg/l WAF	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value, Growth rate
Long-term toxicity fish	NOELR		2.045 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms	EL50		35.57 mg/l	48 h	Tetrahymena pyriformis	,	Fresh water	QSAR; Growth

hydrocarbons, C9, aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LL50	OECD 203	10 mg/l	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	3.2 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EL50	OECD 201	2.9 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental value; Growth rate
	NOELR	OECD 201	1 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	QSAR; GLP
Long-term toxicity fish	NOELR		1.228 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOELR		2.144 mg/l	21 day(s)	Daphnia magna		Fresh water	QSAR

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

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Method		Value		Duration		Value determination
OECD 301D		5 %; Oxyge	en consumption	28 day(s)		Experimental value
Half-life soil (t1/2 soi	1)		·			
Method		Value		Primary degradat	ion/mineralisation	Value determination
						Not applicable (gas)
outyl acetate						
Biodegradation wate	r					
Method		Value		Duration		Value determination
OECD 301D drocarbons, C7, n-alk	anes, isoalkanes, cyclics		gen consumption	28 day(s)		Experimental value
Biodegradation wate		<u>.</u>				
Method		Value		Duration		Value determination
OECD 301F		98 %; GLP		28 day(s)		Experimental value
drocarbons, C7-C9, n	-alkanes, isoalkanes, cyc	clics		•		
Biodegradation wate	r					w.t. 1
Method		Value		Duration		Value determination
OECD 301F	-alkanes, isoalkanes, cyc	98 %; GLP	levane	28 day(s)		Read-across
Biodegradation wate	•	ا ا ا ۱۱ / ۵ مردی میرد	ICAUITE			
Method		Value		Duration		Value determination
OECD 301F		98 %; GLP		28 day(s)		Experimental value
drocarbons, C9, aron	natics			1		
Biodegradation wate	r					
Method		Value		Duration		Value determination
OECD 301F		78 %		28 day(s)		Experimental value
3. Bioaccumulati	odegradable component	t(s)				
t <u>er</u> ntains non readily bio 3. Bioaccumulati 201		t(s)				
ter ntains non readily bio 3. Bioaccumulati 201 Kow	ve potential	t(s)	Value	Te	mperature	Value determination
ter ntains non readily bio 3. Bioaccumulati 201 Kow	ve potential		Value	Te	mperature	Value determination
ter ntains non readily bio 3. Bioaccumulati 201 Kow ethod	ve potential		Value	Te	mperature	Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod	ve potential		Value	Te	mperature	Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow	Remark Not applicable (Te		
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod	ve potential		Value	Te	mperature Temperature	Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether og Kow Method	Remark Not applicable (Те		
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate	Remark Not applicable (Value	Te		Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate	Remark Not applicable (Value	Te		Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether cog Kow Method outyl acetate cog Kow Method OECD 117	Remark Not applicable (i	mixture)	Value 0.10	Те	Temperature	Value determination Experimental value
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether og Kow Method outyl acetate og Kow Method OECD 117 drocarbons, C7, n-alk	Remark Not applicable (i	mixture)	Value 0.10 Value	Te	Temperature Temperature	Value determination Experimental value Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow	Remark Not applicable (I	mixture)	Value 0.10 Value 2.3	Te	Temperature Temperature 25 °C	Value determination Experimental value Value determination Experimental value
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether og Kow Method outyl acetate og Kow Method OECD 117 drocarbons, C7, n-alk	Remark Not applicable (i	mixture)	Value 0.10 Value 2.3 Value	Te	Temperature Temperature	Value determination Experimental value Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method	Remark Not applicable (in Remark Remark Remark Remark Remark Remark Remark	mixture)	Value 0.10 Value 2.3	Te	Temperature Temperature 25 °C	Value determination Experimental value Value determination Experimental value
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n	Remark Not applicable (I	mixture)	Value 0.10 Value 2.3 Value	Te	Temperature Temperature 25 °C	Value determination Experimental value Value determination Experimental value
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method DECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n .og Kow	Remark Not applicable (in Remark	mixture)	Value 0.10	Те	Temperature Temperature 25 °C Temperature	Value determination Experimental value Value determination Experimental value Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method outyl acetate .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n	Remark Not applicable (in Remark Remark Remark Remark Remark Remark Remark	mixture)	Value 0.10 Value 2.3 Value > 3	Te	Temperature Temperature 25 °C	Value determination Experimental value Value determination Experimental value
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n .og Kow Method	Remark Not applicable (in Remark	mixture)	Value 0.10 Value 2.3 Value > 3	Te	Temperature Temperature 25 °C Temperature	Value determination Experimental value Value determination Experimental value Value determination
ter Intains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether Log Kow Method DECD 117 drocarbons, C7, n-alk Log Kow Method drocarbons, C7-C9, n Log Kow Method	Remark Not applicable (in Remark	mixture)	Value 0.10 Value 2.3 Value > 3	Te	Temperature Temperature 25 °C Temperature	Value determination Experimental value Value determination Experimental value Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n .og Kow Method drocarbons, C6-C7, n	Remark Not applicable (in Remark	mixture)	Value 0.10 Value 2.3 Value > 3	Te	Temperature Temperature 25 °C Temperature	Value determination Experimental value Value determination Experimental value Value determination
ter Intains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether Log Kow Method DECD 117 drocarbons, C7, n-alk Log Kow Method drocarbons, C7-C9, n Log Kow Method drocarbons, C7-C9, n Log Kow Method drocarbons, C6-C7, n Log Kow Method	Remark Not applicable (in Remark No data avai	mixture)	Value 0.10 Value 2.3 Value > 3 Value 4 - 5.7	Te	Temperature Temperature 25 °C Temperature Temperature	Value determination Experimental value Value determination Experimental value Value determination Value determination
ter ntains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether .og Kow Method OECD 117 drocarbons, C7, n-alk .og Kow Method drocarbons, C7-C9, n .og Kow Method drocarbons, C6-C7, n .og Kow Method	Remark Not applicable (in Remark No data avai	mixture)	Value 0.10 Value 2.3 Value > 3 Value 4 - 5.7	Те	Temperature Temperature 25 °C Temperature Temperature	Value determination Experimental value Value determination Experimental value Value determination Value determination
ter Intains non readily bid 3. Bioaccumulati 201 Kow ethod methyl ether Log Kow Method DECD 117 drocarbons, C7, n-alk Log Kow Method drocarbons, C7-C9, n Log Kow Method drocarbons, C6-C7, n Log Kow	Remark Not applicable (in Remark No data avai	mixture)	Value 0.10 Value 2.3 Value > 3 Value 4 - 5.7	Те	Temperature Temperature 25 °C Temperature Temperature	Value determination Experimental value Value determination Experimental value Value determination Value determination

Conclusion

Contains bioaccumulative component(s)

12.4. Mobility in soil

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dimethyl ether

Percent distribution

Method	Fraction air	 Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	99.5 %	0 %	0.04 %	0.43 %	Calculated value

n-butyl acetate

(log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	1.268 - 1.844	Calculated value

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
28.5 Pa.m³/mol		25 °C		Experimental value

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	14.6 %	0 %	55.6 %	26.4 %	3.4 %	Calculated value

hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane

Percent distribution

Method	Fraction air		Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	98 %	0 %	0.9 %	0 %	1.3 %	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

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Greenhouse gases

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

Ozone-depleting potential (ODP)

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

n-butyl acetate

Groundwater

Groundwater pollutant

hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics

Groundwater

Groundwater pollutant

hydrocarbons, C9, aromatics

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).

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other 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).

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SECTION 14: Transport information

Road (ADR)	
14.1. UN number	
UN number	1950
14.2. UN proper shipping name	I
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for
·	liquids. A package shall not weigh more than 30 kg. (gross mass)
Rail (RID)	
14. <u>1. UN number</u>	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Hazard identification number	23
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	[2.1
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	lycs
Special provisions	190
Special provisions	327
Special provisions	344
	625
Special provisions	
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Inland waterways (ADN)	
14. <u>1</u> . UN number	
UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols
14.3. Transport hazard class(es)	
Class	2
Classification code	5F
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	· · · · · · · · · · · · · · · · · · ·
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	l [,]
Special provisions	190
Special provisions	327
Special provisions	344
Special provisions	625
	Combination packagings: not more than 1 liter per inner packaging for
Limited quantities	
Sea (IMDG/IMSBC)	liquids. A package shall not weigh more than 30 kg. (gross mass)
14.1. UN number	1950
UN number	חכבד

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14.2. UN proper shipping name	
Proper shipping name	aerosols
14.3. Transport hazard class(es)	
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Marine pollutant	P
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	
Special provisions	190
Special provisions	277
Special provisions	327
Special provisions	344
Special provisions	381
Special provisions	63
Special provisions	959
Limited quantities	Combination packagings: not more than 1 liter per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
14.7. Transport in bulk according to Annex II of Marpol and the IBC	
Annex II of MARPOL 73/78	Not applicable
(ICAO-TI/IATA-DGR) 14.1. UN number UN number	1950
14.2. UN proper shipping name	
Proper shipping name	Aerosols, flammable
14.3. Transport hazard class(es)	· · · · · · · · · · · · · · · · · · ·
Class	2.1
14.4. Packing group	
Packing group	
Labels	2.1
14.5. Environmental hazards	
Environmentally hazardous substance mark	ves
14.6. Special precautions for user	
Special provisions	A145
Special provisions	A167
Special provisions	A802
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	30 kg G
. , , , , , , , , , , , , , , , , , , ,	

SECTION 15: Regulatory information

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

VOC content Directive 2010/75/EU

VOC content	Remark
58 % - 100 %	
603.2 g/l - 1040 g/l	

REACH Annex XVII - Restriction

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

and use of certain dangerous :	abotanees, mixtures and artificies		
	Designation of the substance, of the group of	Conditions of restriction	
	substances or of the mixture		
· n-butyl acetate	Liquid substances or mixtures fulfilling the	1. Shall not be used in:	
· hydrocarbons, C7, n-alkanes, isoalkanes,	criteria for any of the following hazard classes	 ornamental articles intended to produce light or colour effects by means of different 	
cyclics	or categories set out in Annex I to Regulation	phases, for example in ornamental lamps and ashtrays,	1
· hydrocarbons, C7-C9, n-alkanes,	(EC) No 1272/2008:	— tricks and jokes,	
isoalkanes, cyclics	(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8	— games for one or more participants, or any article intended to be used as such, even with	
· hydrocarbons, C6-C7, n-alkanes,	types A and B, 2.9, 2.10, 2.12, 2.13 categories	ornamental aspects,	1
isoalkanes, cyclics, < 5% n-hexane	1 and 2, 2.14 categories 1 and 2, 2.15 types A	2. Articles not complying with paragraph 1 shall not be placed on the market.	1
· hydrocarbons, C9, aromatics	to F;	3. Shall not be placed on the market if they contain a colouring agent, unless required for	
	(b) hazard classes 3.1 to 3.6, 3.7 adverse	fiscal reasons, or perfume, or both, if they:	
	effects on sexual function and fertility or on	— can be used as fuel in decorative oil lamps for supply to the general public, and,	
	development, 3.8 effects other than narcotic	— present an aspiration hazard and are labelled with H304,	
	effects, 3.9 and 3.10;	4. Decorative oil lamps for supply to the general public shall not be placed on the market	1
	(c) hazard class 4.1;	unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted	1
	(d) hazard class 5.1.	by the European Committee for Standardisation (CEN).	1
		5. Without prejudice to the implementation of other Community provisions relating to the	1
		classification, packaging and labelling of dangerous substances and mixtures, suppliers shall	1
		ensure, before the placing on the market, that the following requirements are met:	1

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		a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. 6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article 69 of the present Regulation with a view to ban, if appropriate, grill lighter fluids and fuel for decorative lamps, labelled H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the first time lamp oils and grill lighter fluids, labelled with H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
- dimethyl ether - n-butyl acetate - hydrocarbons, C7, n-alkanes, isoalkanes, cyclics - hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics - hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane - hydrocarbons, C9, aromatics	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.

National legislation Belgium WP7-201

No data available

National legislation The Netherlands

WP7-201

Waterbezwaarlijkheid A (2); Algemene Beoordelingsmethodiek (ABM)

National legislation France WP7-201

No data available

National legislation Germany

<u>WP7-201</u>	
WGK	3; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
dimethyl ether	
TA-Luft	5.2.5
n-butyl acetate	
TA-Luft	5.2.5/I
TRGS900 - Risiko der	n-Butylacetat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden
hydrocarbons, C7, n-alkanes,	isoalkanes, cyclics
TA-Luft	5.2.5/I
hydrocarbons, C7-C9, n-alkar	nes, isoalkanes, cyclics
TA-Luft	5.2.5/I
hydrocarbons, C6-C7, n-alkar	nes, isoalkanes, cyclics, < 5% n-hexane
TA-Luft	5.2.5/I

National legislation United Kingdom WP7-201

No data available

Other relevant data

No data available

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

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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.

H226 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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

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