

SAFETY DATA SHEET

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

T-REX solvent based

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

1.1. Product identifier

Product name : T-REX solvent based 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

Adhesive

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

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **3** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com

Manufacturer of the product

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **3** +32 14 42 42 31 msds@soudal.com

1.4. Emergency telephone number

24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Class	Category	Hazard statements
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

2.2. Label elements





Signal word
H-statements
H225

Highly flammable liquid and vapour. H319 Causes serious eye irritation. Causes skin irritation.

H412 Harmful 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. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves, protective clothing and eye protection/face protection.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

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P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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 Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

		CAS No EC No		Conc. (C)	Classification according to CLP	Note	Remark
acetone 01-2119471330-49		67-64-1 200-662-2			Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane 01-2119475514-35					Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	UVCB
hydrocarbons, C7, n-alkanes, iso 01-2119475515-33	palkanes, cyclics				Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	UVCB
xylene 01-2119488216-32		1330-20-7 215-535-7			Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Asp. Tox. 1; H304 STOT RE 2; H373 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315	(1)(2)(10)	Constituent
ethylbenzene 01-2119489370-35		100-41-4 202-849-4			Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412	(1)(2)(6)(10)	Constituent

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

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

After eye contact:

Rinse immediately with plenty of water. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not induce vomiting. Consult a doctor/medical service if you feel

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

4.2.1 Acute symptoms

After inhalation:

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

⁽²⁾ Substance with a Community workplace exposure limit

⁽⁶⁾ Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

EXPOSURE TO HIGH CONCENTRATIONS: Headache. Nausea.

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:

Polyvalent foam. BC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2. Special hazards arising from the substance or mixture

Upon combustion: CO and CO2 are formed.

5.3. Advice for firefighters

5.3.1 Instructions:

Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective goggles. 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. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain leaking substance. Dam up the solid spill. Try to reduce evaporation. Prevent soil and water pollution. Prevent spreading in sewers. Use appropriate containment to avoid environmental contamination.

6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

See heading 13.

SECTION 7: Handling and storage

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

7.1. Precautions for safe handling

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Gas/vapour heavier than air at 20°C. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Storage temperature: 20 °C. Store in a dry area. Ventilation at floor level. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, ignition sources.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Non suitable packaging material:

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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.

The Netherlands			
Aceton		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	501 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1210 mg/m³
		Short time value (Public occupational exposure limit value)	1002 ppm
		Short time value (Public occupational exposure limit value)	2420 mg/m ³
thylbenzeen		Time-weighted average exposure limit 8 h (Public occupational	49 ppm
·		exposure limit value)	1
		Time-weighted average exposure limit 8 h (Public occupational	215 mg/m ³
		exposure limit value)	
		Short time value (Public occupational exposure limit value)	97 ppm
		Short time value (Public occupational exposure limit value)	430 mg/m ³
yleen (o-,m- en p-isomer	ren)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	48 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	210 mg/m ³
		Short time value (Public occupational exposure limit value)	100 ppm
		Short time value (Public occupational exposure limit value)	442 mg/m ³
		p 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	–
U			
cetone		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	500 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1210 mg/m³
thylbenzene		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	100 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	442 mg/m³
		Short time value (Indicative occupational exposure limit value)	200 ppm
		Short time value (Indicative occupational exposure limit value)	884 mg/m³
ylene, mixed isomers, pu	ıre	Time-weighted average exposure limit 8 h (Indicative occupational	50 ppm
yierie, mixeu isomers, pe		exposure limit value)	эо ррш
		Time-weighted average exposure limit 8 h (Indicative occupational	221 mg/m ³
		exposure limit value)	O,
		Short time value (Indicative occupational exposure limit value)	100 ppm
		Short time value (Indicative occupational exposure limit value)	442 mg/m ³
elgium			_
cétone		Time-weighted average exposure limit 8 h	500 ppm
		Time-weighted average exposure limit 8 h	1210 mg/m ³
		Short time value	1000 ppm
		Short time value	2420 mg/m ³
thylbenzène		Time-weighted average exposure limit 8 h	100 ppm
		Time-weighted average exposure limit 8 h	442 mg/m ³
		Short time value	125 ppm
		Short time value	551 mg/m ³
ylène, isomères mixtes, _l	purs	Time-weighted average exposure limit 8 h	50 ppm
		Time-weighted average exposure limit 8 h	221 mg/m ³
		Short time value	100 ppm
		Short time value	442 mg/m ³
ICA (TIV ACCUA)			
SA (TLV-ACGIH)		Time weighted everage evenesure limit 0 h /TIM Adapted Male N	250 press
Acetone		Time-weighted average exposure limit 8 h (TLV - Adopted Value)	250 ppm
thul bonzons		Short time value (TLV - Adopted Value)	500 ppm
thyl benzene		Time-weighted average exposure limit 8 h (TLV - Adopted Value)	20 ppm
(ylene (all isomers)		Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm
		Short time value (TLV - Adopted Value)	150 ppm

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Germany			
Aceton		Time-weighted average exposure limit 8 h (TRGS 900)	500 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	1200 mg/m ³
thylbenzol		Time-weighted average exposure limit 8 h (TRGS 900)	20 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	88 mg/m³
(ylol (alle Isomeren)		Time-weighted average exposure limit 8 h (TRGS 900)	100 ppm
		Time-weighted average exposure limit 8 h (TRGS 900)	440 mg/m ³
			-
rance			1
Acétone		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	500 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1210 mg/m ³
		Short time value (VRC: Valeur réglementaire contraignante)	1000 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	2420 mg/m ³
thylbenzène		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	20 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	88.4 mg/m³
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m ³
Xylènes, isomères mixtes <mark>, purs</mark>	s, purs	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	50 ppm
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	221 mg/m ³
		Short time value (VRC: Valeur réglementaire contraignante)	100 ppm
		Short time value (VRC: Valeur réglementaire contraignante)	442 mg/m ³
JK			•
Acetone		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	500 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1210 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	1500 ppm
		Short time value (Workplace exposure limit (EH40/2005))	3620 mg/m ³
thylbenzene		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	441 mg/m³
		Short time value (Workplace exposure limit (EH40/2005))	125 ppm
		Short time value (Workplace exposure limit (EH40/2005))	552 mg/m ³
(ylene, o-,m-,p- or mixed	isomers	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	50 ppm
		Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	220 mg/m ³
		Short time value (Workplace exposure limit (EH40/2005))	100 ppm

b) National biological limit values

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

8.1.2 Sampling methods

If applicable and available it will be listed below.

Acetone (ketones 1)		NIOSH	1300
Acetone (ketones I)		NIOSH	2555
Acetone (organic and inc	organic gases by Extractive FTIR)	NIOSH	3800
Acetone (Volatile Organi	ic compounds)	NIOSH	2549
ACETONE and METHYL E	THYL KETONE in urine	NIOSH	8319
Acetone		OSHA	69
Ethyl Benzene (Hydrocar	rbons, Aromatic)	NIOSH	1501
Ethyl Benzene		OSHA	1002
Ethyl Benzene		OSHA	7
Xylene (Hydrocarbons, a	romatic)	NIOSH	1501
Xylene (Volatile Organic	compounds)	NIOSH	2549

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 DNEL/PNEC values

DNEL/DMEL - Workers

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Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Acute local effects inhalation	2420 mg/m³	
	Long-term systemic effects dermal	186 mg/kg bw/day	
	Long-term systemic effects inhalation	1210 mg/m³	
	isoalkanes, cyclics, < 5% n-hexane		
Effect level (DNEL/DMEL)	Туре	Value	Remark
ONEL	Long-term systemic effects inhalation	2035 mg/m ³	
	Long-term systemic effects dermal	773 mg/kg bw/day	
drocarbons, C7, n-alka <mark>nes, isoa</mark>		Makus	Domonic
Effect level (DNEL/DMEL) ONEL	Type	Value 2085 mg/m³	Remark
DINEL	Long-term systemic effects inhalation Long-term systemic effects dermal	300 mg/kg bw/day	
lene	Long-term systemic effects dermai	300 mg/kg bw/day	
Effect level (DNEL/DMEL)	Туре	Value	Remark
ONEL	Long-term systemic effects inhalation	77 mg/m³	Roman
	Acute systemic effects inhalation	289 mg/m³	
	Acute local effects inhalation	289 mg/m³	
	Long-term systemic effects dermal	180 mg/kg bw/day	
nylbenzene			•
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	77 mg/m³	
	Acute local effects inhalation	293 mg/m³	
	Long-term systemic effects dermal	180 mg/kg bw/day	
<u> IEL/DMEL - General p<mark>opulatio</mark></u>	<u>n</u>		
etone			1-
Effect level (DNEL/DMEL)	Туре	Value	Remark
ONEL	Long-term systemic effects dermal	62 mg/kg bw/day	
	Long-term systemic effects inhalation	200 mg/m³	
drosarbans CC C7 n alkanas i	Long-term systemic effects oral	62 mg/kg bw/day	
Effect level (DNEL/DMEL)	isoalkanes, cyclics, < 5% n-hexane Type	Value	Remark
DNEL	Long-term local effects inhalation	608 mg/m³	Remark
BINEE	Long-term systemic effects dermal	699 mg/kg bw/day	
	Long-term systemic effects oral	699 mg/kg bw/day	
drocarbons, C7, n-alkanes, isoa		033 mg/ kg 3W/ day	
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	
<u>lene</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	14.8 mg/m³	
	Acute systemic effects inhalation	174 mg/m ³	
	Acute local effects inhalation	174 mg/m³	
	Long-term systemic effects dermal	108 mg/kg bw/day	
	Long-term systemic effects oral	1.6 mg/kg bw/day	
nylbenzene Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	15 mg/m³	Remark
DINEL	Long-term systemic effects oral	1.6 mg/kg bw/day	
IEC	Long-term systemic effects of all	1.0 mg/ kg bw/day	
etone			
Compartments	Value	Remark	
Fresh water	10.6 mg/l		
Marine water	1.06 mg/l		
Aqua (intermittent releases)	21 mg/l		
Fresh water sediment	30.4 mg/kg sediment dw		
Marine water sediment	3.04 mg/kg sediment dw		
Soil	29.5 mg/kg soil dw		
STP	100 mg/l		

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<u>xylene</u>		
Compartments	Value	Remark
Fresh water	<mark>0.327 m</mark> g/l	
Marine water	<mark>0.327 m</mark> g/l	
Aqua (intermittent rele <mark>ases)</mark>	<mark>0.327 m</mark> g/l	
STP	<mark>6.58 mg/</mark> l	
Fresh water sediment	12.46 mg/kg sediment dw	
Marine water sediment	12.46 mg/kg sediment dw	
Soil	<mark>2.31 mg/</mark> kg soil dw	

ethylbenzene

Compartments	Value	Remark
Fresh water	0.1 mg/l	
Marine water	<mark>0.01 mg/</mark> l	
Aqua (intermittent rele <mark>ases)</mark>	0.1 mg/l	
STP	9.6 mg/l	
Fresh water sediment	13.7 mg/kg sediment dw	
Marine water sediment	1.37 mg/kg sediment dw	
Soil	2.68 mg/kg soil dw	
Oral	<mark>0.02 g/kg</mark> food	

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

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system. Measure the concentration in the air regularly. Work under local exhaust/ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

Observe normal hygiene standards. Keep container tightly closed. Do not eat, drink or smoke during work.

a) Respiratory protection:

Wear gas mask with filter type A if conc. in air > exposure limit.

b) Hand protection:

Cloves

c) Eye protection:

Protective goggles.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form		Paste Paste		
Odour		Characteristic odour		
Odour threshold		No data available		
Colour		Variable in colour, depending on the composition		
Particle size		No data available		
Explosion limits		No data available		
Flammability		Highly flammable liquid and vapour.		
Log Kow		Not applicable (mixture)		
Dynamic viscosity		No data available		
Kinematic viscosity		No data available		
Melting point		No data available		
Boiling point		No data available		
Flash point		< <mark>23 ℃</mark>		
Evaporation rate		No data available		
Relative vapour density		>1		
Vapour pressure		< 1100 hPa; 50 °C		
Solubility		water ; insoluble		
		organic solvents ; soluble		
Relative density		1.36		
Decomposition temperature		<mark>No data availa</mark> ble		
Auto-ignition temperature		No data available		
Explosive properties		No chemical group associated with explosive properties		
Oxidising properties		No chemical group associated with oxidising properties		
рН		<mark>No data availa</mark> ble		

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9.2. Other information

Absolute density 1360 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from naked flames/heat. Insufficient ventilation: keep naked flames/sparks away. Insufficient ventilation: use spark-/explosionproof appliances and lighting system.

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

T-REX solvent based

No (test)data on the mixture available

acetone

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD 401	5800 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	20000 mg/kg		Rabbit (male)	Experimental value	
Dermal	LD50		> 7426 mg/kg bw		Rabbit (female)	Weight of evidence	
Inhalation (vapours)	LC50	Other	76 mg/l	4 h	Rat (female)	Experimental value	
Inhalation (vapours)	LCL0	Other	<mark>16000 p</mark> pm	4 h	Rat	Experimental value	

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Other	> 5840 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50	Other	> 2800 mg/kg bw	24 week(s)	Rat (male/female)	Similar product	
Inhalation (vapours)	LC50	Other	<mark>> 25.2 m</mark> g/l	4 h	Rat (male/female)	Experimental value	

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Parameter	Method	Value	Exposure time	Species	Value	Remark
					determination	
LD50	Other	> 5840 mg/kg bw		Rat (male/female)	Read-across	
LD50	Other	> 2800 mg/kg bw	24 h	Rat (male/female)	Read-across	
	•	> 23.3 mg/l air	4 h	Rat (male/female)	Read-across	
	LD50 LD50 LC50	LD50 Other LD50 Other LC50 Equivalent to OECD	LD50 Other > 5840 mg/kg bw LD50 Other > 2800 mg/kg bw LC50 Equivalent to OECD > 23.3 mg/l air	LD50 Other > 5840 mg/kg bw LD50 Other > 2800 mg/kg bw 24 h LC50 Equivalent to OECD > 23.3 mg/l air 4 h	LD50 Other > 5840 mg/kg bw Rat (male/female) LD50 Other > 2800 mg/kg bw 24 h Rat (male/female)	LD50 Other > 5840 mg/kg bw Rat (male/female) Read-across LD50 Other > 2800 mg/kg bw 24 h Rat (male/female) Read-across LC50 Equivalent to OECD > 23.3 mg/l air 4 h Rat (male/female) Read-across

<u>xylene</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 401	3523 mg/kg bw		Rat (male)	Experimental value	
Oral	LD50	OECD 401	> 4000 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	OECD 402	> 4200 mg/kg bw	4 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC50	OECD 403	27.57 mg/l	4 h	Rat (male)	Experimental value	

ethylbenzene

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50		3500 mg/kg		Rat (male/female)	Experimental value	
Dermal	LD50		15432 mg/kg	24 h	Rabbit (male)	Experimental value	
Inhalation	LC50		1432 ppm	4 h	Mouse (male)	Experimental value	

Judgement is based on the relevant ingredients

Conclusion

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			T-RI	EX solv	ent base	ed		
Not	classified for acute	e toxicity						
Corrosio	n/irritation							
No	solvent based (test)data on the m	nixture a <mark>vailable</mark>						
	tone Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
Ē	Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	determination Weight of evidence	
-	•	Not irritating	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
lı	nhalation	Slightly i <mark>rritatin</mark>	g Human observation study	20 minutes		Human	Literature	
			kanes, cyclics, < 5% n-he					
F	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
<u> </u>	ye	Not irritating	Other			Rabbit	Read-across	
	Skin	Irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
	rocarbons, C7, n-al						h	<u>. </u>
ŀ	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
<u> </u>	Eye	Not irritating	Other	4 h	24.40.72.	Rabbit	Read-across	Single treatment
Į	Skin	Irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Read-across	
<u>xyle</u>	Route of exposure	Docul+	Method	Exposure time	Time point	Species	Value	Remark
_	·			Exposure time	· ·	Species	determination	
E	Eye	Modera <mark>tely</mark> irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	
S	Skin	Modera <mark>tely</mark> irritating		24 h	24; 72 hours	Rabbit	Experimental value	
	nhalation	Irritating		4 h		Human		
(vapours)	Irritating; STOT	SE				Literature study	
eth	ylbenzene	cat.3					,	
	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Ē	Eye	Slightly irritatin	g		7 days	Rabbit	Experimental value	
_	Skin	Moderately irritating		24 h		Rabbit	Experimental value	
<u>Concl</u> Cau Cau Not	ssification is based (lusion Isses skin irritation. Isses serious eye irrit It classified as irritat Ory or skin sensitisa	tation. ing to th <mark>e respir</mark>						
T-REX s	solvent based (test)data on the m							
	tone oute of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
Sk	kin I	Not sens <mark>itizing</mark>	Guinea pig		point 48 hours	Hamster (female)	Experimental value	
SI.	kin N	Not sensitizing	maximisation test Human observation			Human	Literature	
			kanes, cyclics, < 5% n-he	exane exame			,	
	oute of exposure			Exposure time	Observation time point	Species	Value determination	Remark
Sk	kin l	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male/female)	Read-across	
hyd	rocarbons, C7, n-al	lkanes, isoalkan						
Ro	oute of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Sk	kin l	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male/female)	Read-across	
_			·			P		
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Route of exposure R	esult	Method	Expos	sure time	Observation	time Species	Value determination	on Remark
Skin N	lot sens <mark>iti</mark>	izing OECD 429			point	Mouse	Experimental value	
ethylbenzene								
Route of exposure R	esult	Method	Expos	sure time	Observation point	time Species	Value determination	on Remark
Skin N	lot sens <mark>iti</mark>	izing Other				Human	Inconclusive, insufficient data	
udgement is based on inclusion Not classified as sensiti: Not classified as sensiti: ic target organ toxicity	zing for sl	kin		'				
<u>X solvent based</u> (test)data on the mixt	ture avail	able						
cetone Route of exposure			Value	Organ	Effect	Exposure tir	ne Species	Value
Oral	NOAEL	Equivalent to	20 mg/l		No effec	t 13 week(s)	Mouse	determina Experimen
Dermal		OECD 408					(male/female)	Not releva
Inhalation	NOAEC	Other	19000 ppm		No effec	t 8 week(s)	Rat (male)	expert Literature
(vapours) Inhalation (vapours)		Human observation study	361 ppm	Central ne system	ervous neurotox effects	xic 2 day(s)	Human	Inconclusiv
ydrocarbons, C6-C7, n								
Route of exposure			Value	Organ	Effect	Exposure tir	•	Value determina
Inhalation (vapours)	NOAEC	Other	4200 mg/m³ a	air	No effec	, , ,		Experimen value
Inhalation (vapours)	NOAEC	Equivalent to OECD 413			No effec	days/week)	(male/female)	Read-acros
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	2220 ppm		No effec	t 13 weeks (6 days/week)	h/day, 5 Rat (male/female)	Read-acros
Inhalation (vapours)	LOAEC	Other	14 g/m³	Central ne	ervous Behaviou disturba		lay) Rat (male)	Experimen value
ydrocarbons, C7, n-alk								<u>'</u>
Route of exposure	Paramet	ter Method	Value	Organ	Effect	Exposure tir	ne Species	Value determina
Inhalation (vapours)	NOAEC	Subchronic toxicity test	12470 mg/m³	Central ne	ervous No effec	t 16 weeks (d	aily) Rat (male)	Read-acros
Inhalation (vapours)	NOAEL	Equivalent to OECD 413			No adve	rse 26 weeks (6	h/day, 5 Rat (male/female)	Read-acros
Inhalation	LOAEL	Equivalent to		air Central ne	ervous CNS dep			Read-acros
(vapours)		OECD 413		system		days/week)	(male/female))
Route of exposure	Paramet	ter Method	Value	Organ	Effect	Exposure tir	ne Species	Value determina
Oral (stomach tube)	LOAEL	Equivalent to OECD 408	150 mg/kg bw/day	Liver	Weight g	gain 90 day(s)	Rat (male)	Experimen value
Oral	NOAEL	Other	250 mg/kg bw/day		No effec	t 103 weeks (days/week)	6h/day, 5 Rat (male/female)	Experimen) value
Inhalation (vapours)	NOAEC	Subchronic toxicity test	≥ 3515 mg/m	3	No effec	t 13 weeks (6 days/week)		Experimen value

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	Route of exposure	Parame	ter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Oral	NOAEL		OECD 407	75 mg/kg bw/day	Liver	Enlargement/ ection of the liver	aff 28 day(s)	Rat (male/female)	Experimental value
	Oral	NOAEL		OECD 408	75 mg/kg bw/day	Liver	Enlargement/ ection of the liver	aff 13 week(s)	Rat (male/female)	Experimental value
	Oral	LOAEL		OECD 408	250 mg/kg bw/day	Liver	Enlargement/ ection of the liver	aff 13 week(s)	Rat (male/female)	Experimental value
•	Oral	NOAEL		Equivalent to OECD 424	500 mg/kg bw/day		No effect	90 day(s)	Rat (male/female)	Experimental value
	Inhalation (vapours)	LOAEC		Equivalent to OECD 453	75 ppm		No effect	104 weeks (6h/day, days/week)	5 Rat (male/female)	Experimental value
	Inhalation	NOAEL		Equivalent to OECD 413	1000 ppm		No effect	13 weeks (6h/day, 5		Experimental value
•	Inhalation	NOAEC		OECD 412	800 ppm	Liver		4 weeks (6h/day, 5 days/week)	Mouse (male/female)	Experimental value
•	Inhalation	NOAEC		OECD 412	800 ppm	Liver	Enlargement/ ection of the liver	aff 4 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Not tagen -REX s No (lusion classified for subch nicity (in vitro) nolvent based (test)data on the mi		·	e						
	tone_									
	Result			ethod		Test substrat	-	Effect		ermination
	Negative			uivalent to OEC		Bacteria (S.ty	,	No effect	Experimen	
	Negative			uivalent to OEC			ster ovary (CHO)	No effect	Experimen	ital value
hyd	rocarbons, C6-C7, n	-alkanes	, isoa	lkanes, cyclics, <	5% n-hexane					
	Result		M	ethod		Test substrat	e l	Effect	Value dete	ermination
Ī	Negative		Eq	uivalent to OEC	D 473	Rat liver cells		No effect	Read-acros	SS
ľ	Negative		Eq	uivalent to OEC	D 471		nhimurium)	No effect	Read-acros	
					U - /1	Bacteria (S.ty	Jillinanani)	NO CITCUL	neau-acros	SS
	Negative			CD 476	D 471	Bacteria (S.ty		No effect	Read-acros	
	Negative	anes, iso	OE	CD 476	D 4/1	Bacteria (S.ty				
hyd	Negative rocarbons, C7, n-alk	kanes, is	OE oalkar	CD 476 nes, cyclics	J 471			No effect	Read-acros	SS
<u>hyd</u>	Negative rocarbons, C7, n-alk Result	kanes, iso	OE oalkar M	ethod		Test substrat	e	No effect Effect	Read-acros	ermination
<u>hyd</u>	Negative rocarbons, C7, n-alk Result Negative	kanes, i <mark>s</mark> e	OE oalkar Me	CD 476 nes, cyclics ethod uivalent to OEC	D 473	Test substrat Rat liver cells	e	No effect Effect No effect	Read-acros Value dete	ermination
<u>hyd</u>	Negative rocarbons, C7, n-alk Result Negative Negative	kanes, is	OE oalkar Me Eq	ethod uivalent to OEC uivalent to OEC	D 473	Test substrat Rat liver cells Bacteria (S.ty	e phimurium)	No effect Effect No effect No effect	Value dete Read-acros Read-acros	ermination ss
hyd	Negative rocarbons, C7, n-alk Result Negative Negative Negative	kanes, is	OE oalkar Me Eq	CD 476 nes, cyclics ethod uivalent to OEC	D 473	Test substrat Rat liver cells	e phimurium)	No effect Effect No effect	Read-acros Value dete	ermination ss
hyd 	Negative rocarbons, C7, n-alk Result Negative Negative Negative Negative	canes, isc	OE OE OE OE OE	ECD 476 nes, cyclics ethod uivalent to OEC uivalent to OEC ECD 476	D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl	phimurium)	Fifect Fifect No effect No effect No effect	Value dete Read-acros Read-acros Read-acros	ermination ss ss ss
hyd 	Negative rocarbons, C7, n-alk Result Negative Negative Negative	bolic without	OE Dalkar Me Eq DE OE	ethod uivalent to OEC uivalent to OEC	D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl	e phimurium) nocytes	No effect Effect No effect No effect	Value dete Read-acros Read-acros Read-acros	ermination ss ss ermination
hyd xyle	Negative rocarbons, C7, n-alk Result Negative Negative Negative ne Result Negative with meta activation, negative metabolic activation	bolic without	OE Dalkar Mo Eq OE OE OE OE OE	ecD 476 nes, cyclics ethod uivalent to OEC uivalent to OEC CD 476 ethod her	D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl	phimurium) nocytes e ster ovary (CHO)	No effect Effect No effect No effect No effect No effect No effect No effect	Value dete Read-acros Read-acros Read-acros Value dete	ermination ss ss ermination
hyd xyle	Negative rocarbons, C7, n-alk Result Negative Negative Negative Result Negative activation, negative metabolic activation	bolic without	OE Dalkar Mo Eq OE OE OE OE OE	ethod ethod	D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl	phimurium) nocytes e ster ovary (CHO)	No effect Iffect No effect No effect No effect Siffect	Value dete Read-acros Read-acros Read-acros Value dete Experimen	ermination ss ss ermination
hyd	Negative rocarbons, C7, n-alk Result Negative Negative Negative ne Result Negative with meta activation, negative metabolic activation	bolic without n	OE Dalkar Mo Eq OE OE OE Mo Ot Ot	ecD 476 nes, cyclics ethod uivalent to OEC uivalent to OEC CD 476 ethod her	D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams	phimurium) nocytes e ster ovary (CHO)	No effect Effect No effect No effect No effect No effect No effect No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen	ermination ess ess ess ermination etal value ermination
hydd	Negative rocarbons, C7, n-alk Result Negative Negative Negative ne Result Negative with meta activation, negative metabolic activation ylbenzene Result Negative with meta activation, negative	abolic without n abolic without n abolic	ODE Dalkar Minimum Min	ecD 476 nes, cyclics ethod uivalent to OEC cCD 476 ethod her	D 473 D 471	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells)	phimurium) nocytes e ster ovary (CHO)	No effect Effect No effect No effect No effect No effect No effect Effect No effect No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen	ermination ss ss ss ermination ttal value ermination ttal value
xyle ethy	Negative rocarbons, C7, n-alk Result Negative Negative Negative nee Result Negative with meta activation, negative metabolic activation ylbenzene Result Negative with meta activation, negative metabolic activation Negative with meta activation, negative metabolic activation Negative with meta activation, negative	abolic without n abolic without n abolic without n	OE O	ethod ethod ethod ethod uivalent to OEC ethod ethod ethod ethod her ethod	D 473 D 471	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells)	e phimurium) nocytes e ster ovary (CHO) e homa L5178Y	No effect Effect No effect No effect No effect No effect No effect Effect No effect No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen Value dete Experimen	ermination ss ss ss ermination ttal value ermination ttal value
xyle ethy stagen	Negative rocarbons, C7, n-alk Result Negative Negative Negative Result Negative with meta activation, negative metabolic activation pregative metabolic activation pregative metabolic activation negative nega	abolic without n abolic without n abolic without n	OE O	ethod ethod ethod ethod uivalent to OEC ethod ethod ethod ethod her ethod	D 473 D 471	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e phimurium) nocytes e ster ovary (CHO) e homa L5178Y	No effect Fifect No effect	Value dete Read-acros Read-acros Read-acros Read-acros Value dete Experimen Value dete Experimen Experimen	ermination ss ss ss ermination attal value ermination attal value
xyle ethy seem seem seem seem seem seem seem see	Negative rocarbons, C7, n-alk Result Negative Negative Negative Result Negative with meta activation, negative metabolic activation nicity (in vivo) solvent based (test) data on the mitone Result	abolic without n abolic without n abolic without n	OE O	ethod ethod ethod ethod uivalent to OEC ethod ethod ethod ethod her ethod etho	D 473 D 471 D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e phimurium) nocytes e ster ovary (CHO) ster ovary (CHO)	No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen Value dete Experimen Experimen	ermination ess ess ess ermination etal value ermination etal value etal value
tagen REX s No (acet	Negative rocarbons, C7, n-alk Result Negative Negative Negative Negative Result Negative with meta activation, negative metabolic activation vibenzene Result Negative with meta activation, negative metabolic activation Negative with meta activation on the mitone Result Negative	abolic without n abolic without n abolic without n	OE O	ethod ethod ethod ethod uivalent to OEC ethod ethod ethod ethod her ethod etho	D 473 D 471 D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e phimurium) nocytes e ster ovary (CHO) e homa L5178Y	No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen Value dete Experimen Experimen	ermination ss ss ss ermination attal value ermination attal value
xyle ethy acer	Negative rocarbons, C7, n-alk Result Negative Negative Negative Negative Result Negative with meta activation, negative metabolic activation vibenzene Result Negative with meta activation, negative metabolic activation Negative with meta activation on the mitone Result Negative	abolic without n abolic without n abolic without n	OE O	ethod ethod ethod ethod uivalent to OEC ethod ethod ethod ethod her ethod etho	D 473 D 473 D 473	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e phimurium) nocytes e ster ovary (CHO) ster ovary (CHO)	No effect	Value dete Read-acros Read-acros Read-acros Read-acros Value dete Experimen Experimen Experimen Value dete Experimen	ermination ess ess ess ermination etal value ermination etal value etal value
xyle ethy ace ace when a syle	Negative rocarbons, C7, n-alk Result Negative Negative Negative Result Negative with meta activation, negative metabolic activation nicity (in vivo) solvent based (test)data on the mitane Result Negative	abolic without n abolic without n abolic without n	OE O	ethod	D 473 D 473 D 473 Exp	Test substrat Rat liver cells Bacteria (S.ty Human lympl Test substrat Chinese hams Test substrat Mouse (lymp cells) Chinese hams	e phimurium) nocytes e ster ovary (CHO) ster ovary (CHO) Test substruction Mouse (mainly substruction of the content of the	No effect	Value dete Read-acros Read-acros Read-acros Value dete Experimen Value dete Experimen Value dete Experimen Value dete Value dete	ermination ess ess ess ermination estal value ermination etal value etal value etal value

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Result											_		
			lethod			sure time			ubstrate		Organ		Value determina
Negative			ECD 48		6 h				e (male/fema	ıle)			Experimental valu
Negative		О	ECD 47	4	48 h		Į.	Mouse	e (male)				Experimental valu
genicity													
solvent based (test)data on	_	availahle											
etone	the mixture	available											
Route of	Parameter	Method		Value		Exposure	e time	Spec	cies	Effect		Organ	Value determinati
exposure Dermal	NOEL	Other		79 mg		51 week	(s)	Mou	ise (female)	No eff	ect		Literature
drocarbons, C	7, n-alkanes,	isoalkanes, cy	clics_									-	-
Route of exposure	Parameter	Method		Value		Exposure	e time	Spec	cies	Effect		Organ	Value determinati
Inhalation													Data waivin
Dermal													Data waivin
Oral													Data waivin
lene												•	
Route of exposure	Parameter	Method		Value		Exposure	e time	Spec	cies	Effect		Organ	Value determinati
Oral	NOAEC	Not furthe	r	≥ 1000 mg	g/kg	103 wee	ks (5	Mou	ise	No car	rcinogenic		Experimenta
	<u> </u>	determine	b	bw/day		days/we	ek)		e/female)	effect		<u> </u>	value
Oral	NOAEC	Not further		≥ 500 mg/	kg	103 wee	ks (5	Rat			rcinogenic		Experimenta
<u> </u>		determine	b	bw/day		days/we	ek)	(mal	e/female)	effect			value
nylbenzene Doute of	Domenicat	N/athanil		Volus		Fun see	a time a	C	nion.	F66		0.00	Valer
Route of	Parameter	Method		Value		Exposure	etime	Spec	ies	Effect		Organ	Value determinati
OVDOCUES													ueterminat
exposure	NOAEC	Equivalent	to	250 nnm		104	ks (6h/day	Da+		No ott	oct		Evnoriment
exposure Inhalation (vapours) uctive toxicity solvent based (test)data on	<u>f</u> the mixture			250 ppm		5 days/w			e/female)	No eff		lo	value
Inhalation (vapours) uctive toxicity solvent based (test)data on	/ I the mixture	OECD 453	Meth		Value	5 days/w		(mal	e/female) Species	No eff		Organ	value Value
Inhalation (vapours) uctive toxicity solvent based (test)data on	/ <u>i</u> the mixture	OECD 453	Meth	nod ralent to		5 days/w	Exposure til 6-19 days (gestation,	me S		Effe		Organ	value Value determinati
Inhalation (vapours) uctive toxicity solvent based (test)data on etone	i the mixture	OECD 453 available Parameter	Meth	alent to	Value 11000	5 days/w	Exposure ti	me S	Species Rat	Effe)		Organ	value Value determinati Experimenta
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on fe	the mixture	OECD 453 available Parameter NOAEC	Meth Equiv OECD	ralent to	Value 11000 900 mg	5 days/w	Exposure ti 6-19 days (gestation, daily)	me S	Species Rat male/female	Effe)	ect	Organ	value Value determinati Experimenti value
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on fe	the mixture ntal toxicity	OECD 453 available Parameter NOAEC	Meth Equiv OECD	ralent to 0 414 r	Value 11000 900 mg	5 days/w pppm 5/kg	Exposure ti 6-19 days (gestation, daily)	me S	Species Rat male/female	Effe)	effect	Organ Organ	Value determinati Experimenta value Literature
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on fe	the mixture ntal toxicity	OECD 453 available Parameter NOAEC NOAEL les, isoalkanes	Meth Equiv OECD Other	ralent to 0 414	Value 11000 900 mg bw/day	5 days/w	Exposure til 6-19 days (gestation, daily) 13 week(s) Exposure til 10 days	me S F F F F F F F F F F F F F F F F F F	Species Rat male/female Rat (male)	Effe) No	effect		Value determinati Experimenti value Literature Value determinati
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on feddrocarbons, C	the mixture ntal toxicity	oecd 453 available Parameter NOAEC NOAEL les, isoalkanes Parameter	Meth Equiv OECD Other Cyclics Meth Other	ralent to	Value 11000 900 mg bw/day exane Value	ppm	Exposure til 6-19 days (gestation, daily) 13 week(s) Exposure til 10 days (6h/day) 10 days	me S F F F F F F F F F F F F F F F F F F	Species Rat male/female Rat (male) Species	Effe) No No	effect		Value determinati Experimenta value Literature
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on feddrocarbons, C	the mixture ntal toxicity	oecd 453 available Parameter NOAEC NOAEL les, isoalkanes Parameter NOAEC	Meth Equiv OECE Other Cyclics Meth Other Equiv OECE	ralent to o 414	Value 11000 900 mg bw/day exane Value ≥ 1200	ppm ppm ppm	Exposure ti 6-19 days (gestation, daily) 13 week(s) Exposure ti 10 days (6h/day) 10 days (6h/day) 10 days	me S F F F F F F F F F F F F F F F F F F	Species Rat male/female Rat (male) Species Rat	Effe) No No No No	effect effect effect or skeletal		Value determinati Experimenta value Literature Value determinati Read-across
Inhalation (vapours) uctive toxicity solvent based (test)data on etone Developmer Effects on fedrocarbons, Control (page 1) Developmer	the mixture of the mi	oecd 453 available Parameter NOAEC NOAEL les, isoalkanes Parameter NOAEC NOAEC NOAEL LOAEL	Meth Equiv OECD Other Cyclics Meth Other	ralent to o 414	Value 11000 900 mg bw/day exane Value ≥ 1200 3000 p 9000 p	ppm ppm ppm ppm	Exposure til 6-19 days (gestation, daily) 13 week(s) Exposure til 10 days (6h/day) 10 days (6h/day)	me S F F N N N	Species Rat male/female Rat (male) Species Rat Mouse Mouse	Effe) No No No Mirvar	effect effect effect nor skeletal iations	Organ	Value determinati Experimenta value Literature Value determinati Read-across Read-across
inhalation (vapours) uctive toxicity solvent based of (test)data on etone Developmen Effects on feddrocarbons, C	the mixture of the mi	available Parameter NOAEC NOAEL les, isoalkanes Parameter NOAEC NOAEL LOAEL NOAEL	Meth Equiv OECE Other Cyclics Meth Other Equiv OECE	ralent to 0 414 ralent to 0 414 ralent to 0 414 ralent to 0 414	Value 11000 900 mg bw/day exane Value ≥ 1200 3000 p 9000 p	ppm ppm ppm ppm	Exposure til 6-19 days (gestation, daily) 13 week(s) Exposure til 10 days (6h/day) 10 days (6h/day) 10 days (6h/day)	me S F F N F F F F F F F F F F F F F F F F	Species Rat male/female Rat (male) Species Rat Mouse Mouse Rat (female)	Effe) No No Mirvar No	effect effect effect nor skeletal iations effect	Organ	Value determinati Experimenta value Literature Value determinati Read-across Read-across Read-across
Inhalation (vapours) uctive toxicity solvent based (test)data on etone Developmer Effects on fedrocarbons, Control (page 1) Developmer	the mixture of the mi	oecd 453 available Parameter NOAEC NOAEL les, isoalkanes Parameter NOAEC NOAEC NOAEL LOAEL	Meth Equiv OECE Other Cyclics Meth Other Equiv OECE	ralent to 0 414	Value 11000 900 mg bw/day exane Value ≥ 1200 3000 p 9000 p	ppm ppm ppm ppm	Exposure ti 6-19 days (gestation, daily) 13 week(s) Exposure ti 10 days (6h/day) 10 days (6h/day) 10 days	me S F F N F F F F F F F F F F F F F F F F	Species Rat male/female Rat (male) Species Rat Mouse Mouse	Effe) No No Mirvar No	effect effect effect nor skeletal iations	Organ	Value determinati Experimenta value Literature Value determinati Read-across Read-across Read-across
Inhalation (vapours) uctive toxicity solvent based (test)data on etone Developmer Effects on fedrocarbons, Control (page 1) Developmer	the mixture of the mi	available Parameter NOAEC NOAEL les, isoalkanes Parameter NOAEC NOAEL LOAEL NOAEL	Meth Equiv OECE Other Cyclics Meth OECE Equiv OECE Equiv OECE	ralent to 0 414	Value 11000 900 mg bw/day exane Value ≥ 1200 3000 p 9000 p	ppm ppm pm pm	Exposure ti 6-19 days (gestation, daily) 13 week(s) Exposure ti 10 days (6h/day) 10 days (6h/day) 10 days (6h/day)	me S F (() F N N F F F	Species Rat male/female Rat (male) Species Rat Mouse Mouse Rat (female)	Effe) No No No No No No	effect effect effect nor skeletal iations effect	Organ Skeleto	Value determinati Experimenta value Literature Value determinati Read-across

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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Other	1200 ppm	10 days (6h/day)	Rat	No effect		Read-across
	NOAEL	Equivalent to OECD 414	10560 mg/m³ air	10 days (6h/day)	Mouse	No effect		Read-across
	LOAEL	Equivalent to OECD 414	31680 mg/m ³ air	10 days (6h/day)	Mouse	Minor skeletal variations	Foetus	Read-across
Maternal toxicity	NOAEC		1200 ppm		Rat (female)	No effect		Read-across
	NOAEL	Equivalent to OECD 414	3168 mg/m³ air	10 days (6h/day)	Rat (female)	No effect		Read-across
	LOAEL	Equivalent to OECD 414	10560 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/m ³ air		Rat (male/female)	No effect		Read-across
<u>ene</u>	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Developmental toxicity	NOAEC	Equivalent to OECD 414	500 ppm	15 days (6h/day)	Rat (male/female)	No effect	Foetus	Experimenta value
Maternal toxicity	NOAEC	Equivalent to OECD 414	500 ppm		Rat	No effect		Experimenta value
Effects on fertility	NOAEC (P)	EPA OPPTS 870.3800	≥ 500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimenta value
	NOAEC (F1)	EPA OPPTS 870.3800	≥ 500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimenta value
<u>ylbenzene</u>								
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Developmental toxicity	NOAEC	OECD 414	500 ppm	15 days (gestation, daily)	Rat (female)	No effect		Experimenta value
	NOAEC	OECD 426	500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimenta value
Effects on fertility	NOAEC (P/F1/F2)	OECD 416	500 ppm	70 days (6h/day)	Rat (male/female)	No effect		Experimenta value
	NOAEC (P)	Equivalent to OECD 415	1000 ppm	2 week(s)	Rat (male/female)	No effect		Experimenta value
	NOEC (F1)	Equivalent to OECD 415	100 ppm		Rat (male/female)	No effect		Experimenta value
	NOAEL	Other	750 ppm	104 weeks (6h/day, 5 days/week)	Mouse (male/female)	No effect		Experimenta value
	NOEC	OECD 408	750 ppm	13 week(s)	Rat (male/female)	No effect		Experimenta value

Not classified for mutagenic or genotoxic toxicity

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

T-REX solvent based

No (test)data on the mixture available

<u>acetone</u>

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

Chronic effects from short and long-term exposure

T-REX solvent based No effects known.

SECTION 12: Ecological information

12.1. Toxicity

Reason for revision: 2;3 Publication date: 2013-07-15 Date of revision: 2015-10-26

Revision number: 0100 Product number: 54231 13/21

		T-RI	EX solv	/ent	based			
<u>(solvent based</u> (test)data on the mixture avail	able							
<u>cetone</u>	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determin
Acute toxicity fishes	LC50	EU Method C.1	5540 mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental v Nominal concentration
Acute toxicity invertebrates	LC50	Other	12600 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental v Nominal
Toxicity algae and other aquat plants	ic EC50		> 7000 mg/l	96 h	Selenastrum capricornutum	Static system	Fresh water	concentration Experimental v Nominal concentration
L ydrocarbons, C6-C7, n-alkanes,	isoalkanes, cy	l clics, < 5% n-he	exane					concentration
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determi
Acute toxicity fishes	LL50	OECD 203	11.4 mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental v
Acute toxicity invertebrates	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental v
Toxicity algae and other aqu <mark>at</mark> plants	ic ErC50	OECD 201	30 mg/l WAF - 100 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental v GLP
Long-term toxicity fish	NOELR		2.045 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
	LOEC	OECD 211	0.32 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 inhibition
	NOELR		7.959 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition
ydrocarbons, C7, n-alkanes, iso					-		I	
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determi
Acute toxicity fishes	LL50	OECD 203	> 13.4 mg/l WAF	96 h	Oncorhynchus mykiss	Semi-static system	Fresh water	Experimental v Nominal concentration
Acute toxicity invertebrates	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental v
Toxicity algae and other aquat plants	ic EL50	OECD 201	29 mg/l WAF	72 h	Pseudokirchnerie lla subcapitata	Static system	Fresh water	Experimental v GLP
Long-term toxicity fish	NOELR	Other	1.534 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR; Nomina concentration
Long-term toxicity aquatic invertebrates	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across; G
	EL50	OECD 211	1.6 mg/l WAF		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
<u>/lene</u>	Doromoto	Mother	Makes	Duration	Cmag!	Toot decima	Freeh /a-11	Volum data
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determi
Acute toxicity fishes	LC50	OECD 203	2.6 mg/l	96 h	Oncorhynchus mykiss	Static system		Read-across; L
Acute toxicity invertebrates	EC50		3.82 mg/l	48 h	Daphnia magna	Flow-through system		Read-across
Toxicity algae and other aqu <mark>at</mark> plants		OECD 201	4.36 mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental v Growth rate
Long-term toxicity fish	NOEC		> 1.3 mg/l	56 day(s)	Oncorhynchus mykiss	Flow-through system	Fresh water	Experimental v Lethal
li ana a danara di e de di e d	NOFC	LIC ED 1	4 47 //	17 de (1)	C. d. I. I.		le t	In I .

Publication date: 2013-07-15 Reason for revision: 2;3 Date of revision: 2015-10-26

1.17 mg/l

US EPA

Long-term toxicity aquatic invertebrates

NOEC

14/21 Revision number: 0100 Product number: 54231

7 day(s)

Ceriodaphnia dubia

Fresh water

Read-across; Reproduction

Acute toxicity fishes LC50 OECD 203 4.2 mg/l 96 h Salmo gairdneri Semi-static system Fresh water Experimenta system Acute toxicity invertebrates EC50 US EPA 1.8 mg/l - 2.4 48 h mg/l Toxicity algae and other aquatic plants ChV ECOSAR v1.00 1.13 mg/l Long-term toxicity aquatic invertebrates NOEC US EPA 1 mg/l 7 day(s) Ceriodaphnia dubia Semi-static system Fresh water Experimenta Growth rate Capricornutum Capricornutum Capricornutum Capricornutum Fresh water Experimenta Growth rate Copsar v1.00 1.13 mg/l 7 day(s) Ceriodaphnia dubia Semi-static system Fresh water Experimenta forowth rate Experimenta invertebrates Toxicity aquatic micro- organisms Parameter Method Value Duration Species Value deterior Value	ethylbenzene	Darameter	Mothod	Value	Duration	Charies	Tost dosign	Froch /colt	Value determin
Acute toxicity invertebrotes CCSO		Parameter	Method	Value	Duration	Species	Test design		Value determir
Tracity agae and other aquatic TCSD	Acute toxicity fishes		OECD 203			Salmo gairdneri	system		Experimental v
plants Cong serm toxicity fish CIV ECOSAR v1.00 1.13 mg/l 30 duyly) Sicces Cong serm toxicity aquatic Invertebrates Cong serm toxicity aquatic Invertebrates Cong serm toxicity aquatic Invertebrates Cong Service Co	Acute toxicity invertebrates	EC50	US EPA	mg/l	2.4 48 h	Daphnia magna	Static system	Fresh water	Experimental v
Long term toxicity aquatic micro- inversibilities of the control o		c EC50	OECD 201	4.6 mg/l	72 h				Experimental v Growth rate
Invertebrates	Long-term toxicity fish	ChV	ECOSAR v1.0	00 1.13 mg/l	30 day(s)				
Parameter Method Value Duration Species Value determination is based on the relevant ingredients substitution is based on the relevant ingredients substitution is based on the relevant ingredients substitution to aquatic life with long lasting effects. 2.2. Persistence and degradability substitution is according to a part of the property of the pr	, ,	NOEC	US EPA	1 mg/l	7 day(s)			Fresh water	Experimental v Reproduction
Secretary continued		EC50		96 mg/l	24 h	Nitrosomonas			Experimental v
Continued Cont		Darameter	Method		Value	Duration	Specie	ns.	Value determin
suctision termination is based on the relevant ingredients inclusion termination aquatic life with long lasting effects. 2.2. Persistence and degradability suctions Method DECD 3018: COZ Evolution Test D0.9 % D0.9 % D0.9 % D0.5 28 day(s) Experimental value D0.6 D0.7 Solition D0.6 Solition D0.6 Solition D0.6 D0.7 Solition D0.6 D0.6 D0.7 Solition D0.6 D0.6 D0.7 Solition D0.6 D0.6 D0.6 D0.6 Solition D0.6 D0.6 D0.6 D0.6 D0.6 D0.6 D0.6 D0.6	Toxicity soil macro-organisms			7	0.042 mg/cm ² -				Experimental v
Azamful to aquatic life with long lasting effects. 2.2. Persistence and degradability section. Biodegradation water Biodegradation water Method DECD 301B: CDZ Evolution Test	assification is based on the releving	ant ingredients			g,				1
Azamful to aquatic life with long lasting effects. 2.2. Persistence and degradability research Biodegradation water Biodegradation water Welloo 3018: CO2 Evolution Test 90.9 % 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 98%; GLP 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 98%; GLP 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 98%; GLP 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 98%; GLP 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 98%; GLP 28 day(s) Experimental value Biodegradation water Welloo DECD 3018: Manametric Respirometry Test 87.8 %; GLP 28 day(s) Read across thylbenzene Biodegradation water Welloo Value Duration Value determination DECD 3018: Manametric Respirometry Test 87.8 %; GLP 28 day(s) Read across thylbenzene Biodegradation water Wellood Value Duration Value determination DECD 3018: Manametric Respirometry Test 87.8 %; GLP 28 day(s) Experimental value Primary Wellood Value Duration Value determination DECD 3018: Manametric Respirometry Test 87.8 %; GLP 28 day(s) Experimental value Derotorians/ormation air (0750 air) Wellood Value Duration Value determination Melhod Value Donc. OH-radicals Value determination Melhod Value Primary Melhod Melhod Value Primary Melhod Value Primary Melhod Melhod Melhod Primary Melhod Melhod Melhod Melhod Primary Melhod M		J							
2.2. Persistence and degradability		lasting effects.							
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Section Sect	Biodegradation water								
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wdrocarbons, C.F.C.7, nalkanes, soalkanes, cyclics, <5% n-hexane Method Value Duration Value Duration Value Va	OECD 301B: CO2 Evolution Te	est	90.9 %		28 da	ıy(s)	Ex	perimental val	ue
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Method Value Duration Value determination DECD 301F: Manometric Respirometry Test \$7.8 %; GLP 28 day(s) Read-across									
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Phototransformation air (DT50 air) Method Value Conc. OH-radicals Value determination	ISO 14593		70 % - 80 %;	GLP	28 da	y(s)	Ex	perimental val	ue
Method Value Conc. OH-radicals Value determination Mathod Value Social (11/2 soil)) air)	•						
Half-life soil (t1/2 soil) Method Value Primary degradation/mineralisation Jaday(s) - 10 day(s) Half-life air (t1/2 air) Method Value Primary degradation/mineralisation Literature study Value determination Primary degradation/mineralisation Value determination 2.3 day(s) Description Contains readily biodegradable component(s) 2.3. Bioaccumulative potential Ext solvent based grow Method Remark Value Temperature Value determination Not applicable (mixture) Primary degradation/mineralisation Value determination Value determination Publication date: 2013-07-15		-	Value		Conc	OH-radicals	Va	alue determina	tion
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Aday(s) - 10 day(s) Literature study	Method		Value					alue determina	tion
Half-life air (t1/2 air) Method Value Primary degradation/mineralisation 2.3 day(s) Primary degradation/mineralisation					degra	adation/mineralisa			
Method Value Primary degradation/mineralisation 2.3 day(s) Primary degradation/mineralisation Prima			3 day(s) - 10	day(s)			Lit	terature study	
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Method Remark Value Temperature Value determination Not applicable (mixture) In for revision: 2;3 Publication date: 2013-07-15	X solvent based								
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Not applicable (mixture) In for revision: 2;3 Publication date: 2013-07-15	Vlethod Re	emark		Value		Temperature		Value determir	nation
n for revision: 2;3 Publication date: 2013-07-15		ot applicable (m	nixture)						
	No	ot applicable (II	iixture)						I
	No								
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 Revision number: 0100
 Product number: 54231
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F fishes Parameter	Method		Value	Duratio	n Sr	pecies	Value determination
BCF	Motriou		0.69	Durutio		sces	value determination
F other aquation	organisms						
Parameter	Method		Value	Duratio	n Sp	pecies	Value determination
BCF	BCFWIN		3				Calculated value
g Kow							
Method		Remark	k	Value		Temperature	Value determination
				-0.24			Test data
	7, n-alkane <mark>s,</mark>	isoalkane	es, cyclics, < 5% r	<u>-hexane</u>			
g Kow							L
Method		Remark	k	Value		Temperature	Value determination
acarbans C7	alkanos iso	alkanos <i>i</i>	cyclics	> 3			
ocarbons, C7, i	i-aikanes, iso	aikaries, c	LYCIICS				
g Kow Vlethod		Remar	b	Value		Temperature	Value determination
victiou		Keman	K	>3		remperature	value determination
ne				r 3			
F fishes							
Parameter	Method		Value	Duratio	n Sr	ecies	Value determination
3CF			7 - 26	8 week	(s) O	ncorhynchus mykiss	Experimental value
g Kow							
Viethod		Remar	k	Value		Temperature	Value determination
				3.2		20 °C	Conclusion by analogy
<u>lbenzene</u>							
F fishes	<u> </u>		h	- la	la la		ha a a a
Parameter BCF	Method Other		Value	Duratio 6 week		ncorhynchus kisutch	Value determination Literature study
ocr	Other		15 - 79	b week		arassius auratus	Literature study Literature study
F other aquation	organisms		13-73		C	il assius aul atus	Literature study
Parameter	Method		Value	Duratio	n Sr	pecies	Value determination
BCF	Motriou		4.68	Daratio		mellibranchiata	Literature study
g Kow							1
Method		Remar	k	Value		Temperature	Value determination
U Method A.8				3.6		20 °C	Experimental value
<u>usion</u>							
ains bioaccum Mobility in		onent(s)					
ocarbons, C6-C	7, n-alkanes <mark>,</mark>	isoalkane	es, cyclics, < 5% r	n-hexane			
rcent distribut Viethod	on Fraction	air	Fraction biota	Fraction	Fraction so	il Fraction water	Value determination
u	Taction	uli	. raction blota	sediment	Taction 30	I raction water	Value determination
Mackay level III	98 %		0 %	0.9 %	0 %	1.3 %	Calculated value
ocarbons, C7, i		alkanes, d	cyclics				
rcent distributi	ion						
	Fraction	air	Fraction biota	Fraction	Fraction so	il Fraction water	Value determination
	06.04		0.00	sediment	0.55.07	4.404	Calculate de la
Method	96 %		0 %	1.8 %	0.55 %	1.4 %	Calculated value
Method Mackay level III							
Method Mackay level III Ibenzene				Mod	thod	Value	Value determination
Method Mackay level III Ibenzene g) Koc					OCWIN v1.66	2.71	Calculated value
Method Mackay level III Ibenzene g) Koc Parameter				PLK	2 3	2.71	Saladiated value
Method Mackay level III Ibenzene g) Koc Parameter og Koc	s Law consta	nt H)		PCN			Value determination
Method Mackay level III Ibenzene g) Koc Parameter		nt H) Method			ture	Remark	
Method Mackay level III Ibenzene g) Koc Parameter og Koc latility (Henry'				Tempera 25 °C	ture	Remark	Experimental value
Method Mackay level III Ibenzene g) Koc Parameter og Koc Iatility (Henry'	³/mol			Tempera	ture	Remark	Experimental value
Method Mackay level III Ibenzene g) Koc Parameter og Koc Ilatility (Henry' /alue 0.00843 atm m	³/mol	Method	Fraction biota	Tempera	Fraction so		
Method Mackay level III Ibenzene g) Koc Parameter og Koc Iatility (Henry' /alue 0.00843 atm mircent distribut	3/mol	Method	Fraction biota	Tempera 25 °C			
Method Mackay level III Ibenzene g) Koc Parameter og Koc Iatility (Henry' /alue 0.00843 atm mircent distributi Method	3/mol ion Fraction	Method	Fraction biota	Tempera 25 °C Fraction sediment	Fraction so	il Fraction water	Value determination

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.

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12.6. Other adverse effects

T-REX solvent based

Global warming potential (GWP)

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)

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

xylene

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

Ground water

Ground water pollutant

ethylbenzene

Global warming potential (GWP)

Not included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

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

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

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

SE

Road (ADR)	
14.1. UN number	
UN number	1133
14.2. UN proper shipping name	
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Hazard identification number	
Class	3
Classification code	F1
14.4. Packing group	
Packing group	iii iii iii ii ii ii ii ii ii ii ii ii
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADR
ail (RID)	
14.1. UN number	
on for revision: 2;3	Publication date: 2013-07-15
	Date of revision: 2015-10-26

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UN numbe	er e	1133
	er shipping name	1133
	pping name	Adhesives
	rt hazard class(es)	, to neon co
	entification number	33
Class	Titilication named	3
Classificati	on codo	F1
14.4. Packing į		L
		lu.
Packing gr	oup	
Labels		3
	mental hazards	
	entally hazardo <mark>us substance mark</mark>	no
	recautions for <mark>user</mark>	
Special pro	ovisions	
Limited qu	antities	Combination packagings: not more than 5 liters per inner packaging fo
Specific m	ention	liquids. A package shall not weigh more than 30 kg. (gross mass) Viscous liquid with a flash point lower than 23°C, which meets the
		conditions indicated in 2.2.3.1.4 of RID
and watery	vays (ADN)	
	11	4422
UN numbe		1133
	er shipping na <mark>me</mark>	
	pping name	Adhesives
	rt hazard class(<mark>es)</mark>	
Class		3
Classificati	on code	F1
14.4. Packing (
Packing gr		
Labels	3.00	3
	mental hazards	ja j
	entally hazardous substance mark	no
	recautions for <mark>user</mark>	
Special pro		
Limited qu	antities	Combination packagings: not more than 5 liters per inner packaging fo
		liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific m	ention	Viscous liquid with a flash point lower than 23°C, which meets the
		conditions indicated in 2.2.3.1.4 of ADN
a (IMDG/IN	ASDC)	
•	•	
14. <u>1. UN num</u>		
UN numbe	er	1133
14.2. UN prop	er shipping na <mark>me</mark>	
Proper shi	pping name	Adhesives
	rt hazard class(<mark>es)</mark>	
Class		3
14.4. Packing (group	
14.4. Packing {		hu hu
	oup	liii
Packing gr		
Packing gr Labels		3
Packing gr Labels 14.5. Environn	nental hazards	3
Packing gr Labels	nental hazards	-
Packing gr Labels 14.5. Environn Marine po	nental hazards	- no
Packing gr Labels 14.5. Environn Marine po Environme	nental hazards Illutant entally hazardous substance mark	
Packing gr Labels 14.5. Environn Marine po Environme 14.6. Special p	mental hazards illutant entally hazardous substance mark precautions for user	no
Packing gr Labels 14.5. Environn Marine po Environme 14.6. Special pro Special pro	mental hazards Illutant entally hazardous substance mark orecautions for user ovisions	- no 223
Packing gr Labels 14.5. Environn Marine po Environme 14.6. Special pro Special pro Special pro	mental hazards illutant entally hazardous substance mark precautions for user povisions povisions	- no 223 955
Packing gr Labels 14.5. Environn Marine po Environme 14.6. Special pro Special pro Special pro Limited qu	mental hazards Illutant entally hazardous substance mark precautions for user povisions povisions partities	223 955 Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass)
Packing gr Labels 14.5. Environment Marine ponent Provision Provi	mental hazards Illutant entally hazardous substance mark precautions for user povisions povisions partities ention	223 955 Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass) Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.3 of IMDG
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Packing gr Labels 14.5. Environment Marine ponent Environment 14.6. Special prospecial	mental hazards Illutant entally hazardous substance mark precautions for user povisions povisions partities ention	223 955 Combination packagings: not more than 5 liters per inner packaging fo liquids. A package shall not weigh more than 30 kg. (gross mass) Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.3 of IMDG
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14.4. Packing group					
Packing group			III		
Labels			3		
14.5. Environmental hazards				_	
Environmentally hazardo	Environmentally hazardous substance mark				
14.6. Special precautions for	14.6. Special precautions for user				
Special provisions			A3		
0	sport: limited quantities: maximum ne	t quantity	10 L		
per packaging					
Specific mention			Viscous liquid with a flash point I conditions indicated in 3.3.3.1 of		an 23°C, which meets the

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		
26.6 %					
361.76 g/l					

Indicative occupational exposure limit values (Directive 98/24/EC, 2000/39/EC and 2009/161/EU)

Product name	Skin resorption Skin resorption				
Xylene, mixed isomers, pure	Skin				
Ethylbenzene	Skin				

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 da	ngerou	s substances, mixtures and artic	ues.	
		Designation of the substance, of th substances or of the mixture	e group of	Conditions of restriction
· acetone · hydrocarbons, C6-C7, n-alkanes, iso cyclics, < 5% n-hexane · hydrocarbons, C7, n-alkanes, isoalk cyclics · xylene · ethylbenzene		Liquid substances or mixtures whic regarded as dangerous in accordan Directive 1999/45/EC or are fulfilling criteria for any of the following haz or categories set out in Annex I to I (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 an types A and B, 2.9, 2.10, 2.12, 2.13 and 2, 2.14 categories 1 and 2, 2.15 F; (b) hazard classes 3.1 to 3.6, 3.7 ad effects on sexual function and fertidevelopment, 3.8 effects other tha effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	nce withing the lard classes Regulation d 2.7, 2.8 categories 15 types A to verse lity or on	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 will 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 R65 or 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 R65 or 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 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 R65 or 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 R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Article
acetone hydrocarbons, C6-C7, n-alkanes, iso cyclics, < 5% n-hexane hydrocarbons, C7, n-alkanes, isoalk cyclics xylene ethylbenzene		Substances classified as flammable category 1 or 2, flammable liquids 1, 2 or 3, flammable solids category substances and mixtures which, in with water, emit flammable gases, 2 or 3, pyrophoric liquids category pyrophoric solids category 1, regar whether they appear in Part 3 of Athat Regulation or not.	categories y 1 or 2, contact category 1, 1 or dless of	1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aeroso 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
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		the classification, packaging and labelling of substances, suppliers shall ensure before placing on the market that the packaging of aerosol dispensers referred to above is m visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not ap 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 The Netherla	nds	
T-REX solvent based		
Waste identification (the Netherlands)	LWCA (the Netherlands): KGA categ	gory 03
Waterbezwaarlijkheid	1	
xylene		
SZW - List of reprotoxic substances (development)	Possibly hazardous to the foetus	
National legislation Germany T-REX solvent based		
WGK	2; Classification water polluting bas	ed on the components in compliance with Verwaltungsvorschrift wassergefährde
	Stoffe (VwVwS) of 27 July 2005 (An	hang 4)
acetone Schwangerschaft Gruppe	D	
MAK 8-Stunden-Mittelwert	Aceton; 500 ppm	
ppm	Acotoni 1200 /3	
MAK 8-Stunden-Mittelwert mg/m³	Aceton; 1200 mg/m³	
TA-Luft	5.2.5	
	s, isoalkanes, cyclics, < 5% n-hexane	
TA-Luft hydrocarbons, C7, n-alkanes, is	5.2.5; I soalkanes, cyclics	
TA-Luft	5.2.5; I	
<u>xylene</u>	6	
Schwangerschaft Grup <mark>pe MAK 8-Stunden-Mittelwert </mark>	D Xylol (alle Isomeren); 100 ppm	
ppm		
MAK 8-Stunden-Mittelwert	Xylol (alle Isomeren); 440 mg/m ³	
mg/m³ TA-Luft	5.2.5; I	
<u>ethylbenzene</u>		
MAK - Krebserzeugend	4	
Kategorie Schwangerschaft Gruppe	C	
MAK 8-Stunden-Mittelwert	Ethylbenzol; 20 ppm	
ppm MAK 8-Stunden-Mittel <mark>wert</mark>	Ethylbenzol; 88 mg/m³	
mg/m³		
TA-Luft	5.2.5; 1	
National legislation France		
T-REX solvent based No data available		
National legislation Belgium T-REX solvent based		
No data available		
Other relevant data		
T-REX solvent based		
No data available		
acetone TIV Carsinagen	Acatono, AA	
TLV - Carcinogen xylene	Acetone; A4	
TLV - Carcinogen	Xylene (all isomers); A4	
IARC - classification	3; Xylenes	
ethylbenzene TLV - Carcinogen	Ethyl benzene; A3	
IARC - classification	2B; Ethylbenzene	
5.2. Chemical safety assessn	nent	
No chemical safety assessmen		

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SECTION 16: Other information

Full text of any H-statements referred to under headings 2 and 3:

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs (ears (hearing damage)) through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- (*) = INTERNAL CLASSIFICATION BY BIG
- PBT-substances = persistent, bioaccumulative and toxic substances
- CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

The information in this safety data sheet is based on data and samples provided to BIG. The sheet was written to the best of our ability and according to the state of knowledge at that time. The safety data sheet only constitutes a guideline for the safe handling, use, consumption, storage, transport and disposal of the substances/preparations/mixtures mentioned under point 1. New safety data sheets are written from time to time. Only the most recent versions may be used. Old versions must be destroyed. Unless indicated otherwise word for word on the safety data sheet, the information does not apply to substances/preparations/mixtures in purer form, mixed with other substances or in processes. The safety data sheet offers no quality specification for the substances/preparations/mixtures in question. Compliance with the instructions in this safety data sheet does not release the user from the obligation to take all measures dictated by common sense, regulations and recommendations or which are necessary and/or useful based on the real applicable circumstances. BIG does not guarantee the accuracy or exhaustiveness of the information provided and cannot be held liable for any changes by third parties. This safety data sheet is only to be used within the European Union, Switzerland, Iceland, Norway and Liechtenstein. Any use outside of this area is at your own risk. Use of this safety data sheet is subject to the licence and liability limiting conditions as stated in your BIG licence agreement or when this is failing the general conditions of BIG. All intellectual property rights to this sheet are the property of BIG and its distribution and reproduction are limited. Consult the mentioned agreement/conditions for details.

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