

SOUDAL**SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006, as amended by Regulation (EC) no. 453/2010

Soudal Carjoint**SECTION 1: Designation of the substance resp. of the mixture and the company****1.1 Product identifier:**

Product name : Soudal Carjoint
 Registration number REACH : Not applicable (mixture)
 Product type REACH : Mixed

1.2 Relevant identified uses of the substance or mixture and uses advised against:**1.2.1 Relevant identified uses**

Sealing putty

1.2.2 Uses advised against

No uses advised against are known

1.3 Details of the supplier who provides the safety data sheet:**Provider of the safety data sheet**

SOUDAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout y +32
 14 42 42 31 +32 14 42
 65 14
 msds@soudal.com

Manufacturer of the product

SOUDAL NV
 Everdongenlaan 18-20
 B-2300 Turnhout y +32
 14 42 42 31 +32 14 42
 65 14
 msds@soudal.com

1.4 Emergency call

number: 24 hrs / 24 hrs (Telephone consultation: English, French, German, Dutch):
 +32 14 58 45 45 (BIG)

SECTION 2: Possible hazards**2.1 Grading of the substance or mixture:****2.1.1 Grading according to Regulation EC no. 1272/2008**

According to the criteria of Regulation (EC) no. 1272/2008 is classified as dangerous

Class Hazard Indication	Category	
Flam. Liq.	Category 2	H225: Liquid and vapor highly flammable.
Eye Irrit.	Category 2	H319: Causes severe eye irritation.
Skin Irrit.	Category 2	H315: Causes skin irritation.
STOT SE	Category 3	H336: May cause drowsiness and drowsiness.
Aquatic Chronic	Category 3	H412: Harmful to aquatic organisms, has a long-term effect.

2.1.2 Grading according to Directive 67/548 / EEC-1999/45 / EC

Is classified as dangerous according to the principles of Directives 67/548 / EEC and 1999/45 / EC

F; R11 - Flammable.

Xn; R20 / 21 - Harmful by inhalation and in contact with skin.

Xi; R38 - Irritating to skin.

R52-53 - Harmful to aquatic organisms. May have long-term harmful effects in some people.

R67 - Vapors may cause drowsiness and drowsiness.

2.2 Identification elements:

Identification according to Regulation EC no. 1272/2008 (CLP)



Signal word



Danger

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H-sets

- H225 Liquid and vapor easily flammable.
 H319 Causes severe eye irritation.
 H315 Causes skin irritation.
 H336 May cause drowsiness and drowsiness.
 H412 Harmful to aquatic organisms, has a long-term effect.

P-sets

- P101 Requiring medical advice, packaging or label.
 P102 Must not fall into the hands of children.
 P210 Keep away from heat, flammable surfaces, sparks, open flames as well as other types of sand sources. Do not smoke.
 P280 Wear protective gloves, protective clothing and eye protection / face protection.
 P304 + P340 INHALE: Remove person to fresh air and keep breathing unobstructed.
 P303 + P361 + P353 IF ON SKIN (OR HAIR): Remove all contaminated clothing immediately. Skin with water wash / shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Available contact lenses after Possibility to remove. Continue rinsing.
 P312 In case of poisoning POISON CENTER / Call doctor.
 P501 Content / Container add local / regional / national / international regulations.

Additional Information EUH208

Contains: Rosin. May cause allergic reactions.

Marking according to Directive 67/548 / EEC-1999/45 / EC (DSD / DPD)

Zettel



Flammable



Gesundheitsschädlich

R-sets

- 20/21 Harmful by inhalation and in contact with skin
 38 Irritating to skin
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
 67 Vapors may cause drowsiness and drowsiness

S-phrases

- (02) (Must not fall into the hands of children)
 16 Avoid sand sources - Do not smoke
 33 Take measurements against electrostatic charges
 36/37 Wear protective gloves and protective clothing when working
 (46) 61 (If swallowed, seek medical advice immediately and present packaging or label)
 Avoid release into the environment. Get special instructions / Rate safety data sheet.

Contains: Colophonium. May cause allergic reactions.

2.3 Other hazards:

CLP

Possible ignition by sparks Gas / vapor
 spreads in the soil: Danger of danger Attention! The
 substance is resorbed on the skin

DSD /

DPD Possible ignition by sparks Gas /
 vapor spreads in the soil: Danger of danger Attention!
 The substance is resorbed on the skin

SECTION 3: Composition / information on ingredients

3.1 Substances:

Not applicable

3.2 Mixture:

Name REACH Registration No.	CAS-No. EC no.	Conc. (C)	Grading measured DSD / DPD	Grading according to CLP	Footnote Note
Toluene 01-2119471310-51	108-88-3 203-625-9	0.1% <C <1 % Repr. Cat. 3; R63 Xn; R48 / 20 - 65 Xi; R38 R67	F; R11 3; R63 Xn; R48 / 20 - 65 Xi; R38 R67	Flam. Liq. 2; H225 Repr. 2; H361d Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336	(1) (2) (10) Ingredient

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Butanone 01-2119457290-43	78-93-3 201-159-0	10% <C <2 5%	F; R11 Xi; R36 R66 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1) (2) (10)	Ingredient
Zinc oxide 01-2119463881-32	1314-13-2 215-222-5	0.1% <C <1	N; R50-53%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1) (2)	Ingredient
2,6-Di-tert-butyl-p-cresol 01-2119555270-46	128-37-0 204-881-4	0.1% <C <1	N; R50-53%	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1) (2)	Ingredient
Xylol 01-2119488216-32	1330-20-7 215-535-7	10% <C <2 5%	Xn; R20 / 21 Xi; R38 R10	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1; H317	(1) (2) (8) (10)	Ingredient
Colophonium 01-2119480418-32	8050-09-7 232-475-7	0.1% <C <1 R43%			(1) (2)	Ingredient
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds 01-2119475515-33		10% <C <2 5%	F; R11 Xn; R65 Xi; R38 R67 N; R51-53	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1) (10)	Ingredient
Ethylbenzole 01-2119489370-35	100-41-4 202-849-4	1% <C <10 %	F; R11 Xn; R20 - 48/20 - 65	Flam. Liq. 2; H225 Acute Tox. 4; H332 Asp. Tox. 1; H304 STOT RE 2; H373 Aquatic Chronic 3; H412	(1) (2) (6) (10)	Ingredient

(1) To complete wording of the R and HS sentences: see point 16

(2) Substance for which a common limit value applies to exposure in the workplace (6) In Annex VI to Regulation (EC) No 882/2004. 1272/2008 but the classification was adjusted after evaluation of the available experimental data (8) Specific concentration limits, see point 16 (10) Subject to the restrictions in Annex XVII of Regulation (EC) No 1272/2008. 1907/2006

SECTION 4: First aid measures

4.1 Description of First Aid Measures: General Measures: Add to doctor if unwell.

After inhalation:

Bring victim to fresh air. Breathing difficulties: Consult a doctor / medical service.

After skin contact:

Rinse immediately with plenty of water. Use of soap is allowed. Consult a doctor if there is constant irritation.

After eye contact:

Rinse immediately with plenty of water. Consult an ophthalmologist if there is constant irritation.

After swallowing:

Rinse mouth with water. In case of discomfort: Consult a doctor / medical service.

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

4.2.1 Acute symptoms

after inhalation:

EXPOSITION AT HIGH CONCENTRATIONS: CNS depression. Dizziness. Rausch. Headache. Irritation of the respiratory tract. Brightness. Irritation of the nasal mucosa. Consciousness disorders.

After skin contact:

Itching / irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After swallowing:

Brightness. Vomiting. Symptoms similar to inhalation.

4.2.2 Delayed onset of symptoms No effects known.

4.3 Indication of any immediate medical attention or special treatment needed:

If applicable and available, this is indicated below.

SECTION 5: Tasks for firefighting

5.1 Extinguishing

media: 5.1.1 Suitable extinguishing media:

Multi-area foam. BC Powder. Kohlens. Ure.

5.1.2 Unsuitable extinguishing

media: No inappropriate extinguishing media known.

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5.2 Special hazards arising from the substance or mixture:

Upon combustion, CO and CO₂ are formed and metal formation is pumped out. During heating: formation of combustible gases / vapors.

5.3 Advice for firefighters: 5.3.1 Measures:

Cool closed containers with water if exposed to fire. Do not move heat-charged charge. Count on environmentally friendly extinguishing water. Use water sparingly, if possible to catch / end.

5.3.2 Special fire-fighting equipment:

Gloves. Goggles. Protective suit. In case of heating / combustion: Compressed air / oxygen supply.

SECTION 6: Taken in case of unintentional release

6.1 Personal precautions, protective equipment and emergency procedures:

Stop engines and do not smoke. No open fire and no sparks. Spark-free and explosion-proof appliances and lamps.

6.1.1 Protective equipment for non-emergency personnel

See point 8.2

6.1.2 Protective equipment for emergency services

Gloves. Goggles. Protective suit.

Suitable protective clothing

See point 8.2

6.2 Environmental protection measures:

Collect free-range product. Released fabric ends. If evaporation is possible. Avoid soil and water pollution. Prevent intrusion into sewers. Avoid environmental pollution by proper inclusion.

6.3 Methods and material for containment and cleaning up:

Collect solids in removable containers. Collect contaminated solids / residues carefully. Clean dirty areas abundantly with water.

Collect goods from manufacturers / related places. After work, clean clothes and equipment.

6.4 Refer to other sections:

See point 13.

SECTION 7: Handling and storage

The information contained in this section is a general description. If applicable and available, the exposure scenarios are included in the appendix. You must always use related exposure scenarios that have their identified uses

7.1 Protective measures for safe handling:

Keep away from open flames / heat sources. In case of insufficient ventilation: Avoid open flames / sparks. In case of insufficient ventilation: Spark-free / explosion-proof equipment / lights. Gas / vapor heavier than air at 20 ° C. Strict Hygiene adhered to. Keep container tightly closed.

Take off dirty clothing immediately. Do not pour into drains.

7.2 Conditions for safe storage, taking into account intolerances:

7.2.1 Conditions for safe storage:

Storage temperature: 20 ° C. Store in a cool place. Store in a dry place. Room ventilation in the floor. Comply with legal requirements. Max. Storage time: 365 day (s).

7.2.2 Removal of:

Heat sources, sand sources.

7.2.3 Suitable packaging material: Sheet

metal, nylon.

7.2.4 Unsuitable packaging material:

No data available

7.3 Specific end uses:

If applicable and available, the exposure scenarios are included in the appendix. Observe the manufacturer's instructions.

SECTION 8: Limitation and monitoring of exposure / Personal protective equipment

8.1 To monitoring parameters:

8.1.1 Exposure in the workplace

a) Limit values for occupational exposure The limit

values are listed below, insofar as they are available and applicable.

the Netherlands

2,6-Di-tert-butyl-p-cresol (inhalable)	Temporarily weighted average exposure limit value 8 h (Private Workplace Guide Limit)	5 mg / m ³
2-Butanone	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	197 ppm
	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	590 mg / m ³
	Short time value (÷ public workplace guideline value)	300 ppm

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2-Butanone	Short time value (÷ public workplace guideline value)	900 mg / m ³
Ethylbenzene	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	49 ppm
	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	215 mg / m ³
	Short time value (÷ public workplace guideline value)	97 ppm
	Short time value (÷ public workplace guideline value)	430 mg / m ³
	Short time value (÷ public workplace guideline value)	430 mg / m ³
Pyrolysis products derived from resin core solder tin (aliphatic aldehyde calculated as formaldehyde)	Temporarily weighted average exposure limit value 8 h (Private Workplace Guide Limit)	0.1 mg / m ³
Toluene	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	39 ppm
	Temporarily weighted average exposure limit value 8 h (÷ public workplace target limit value)	150 mg / m ³
	Short time value (÷ public workplace guideline value)	100 ppm
	Short time value (÷ public workplace guideline value)	384 mg / m ³
	Short time value (÷ public workplace guideline value)	384 mg / m ³
Zinc oxide (smoke)	Temporarily weighted average exposure limit value 8 h (Private Workplace Guide Limit)	5 mg / m ³

EU

Butanone	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	200 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	600 mg / m ³
	Short time value (workplace directive value)	300 ppm
	Short time value (workplace directive value)	900 mg / m ³
	Short time value (workplace directive value)	900 mg / m ³
Ethylbenzol	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	100 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	442 mg / m ³
	Short time value (workplace directive value)	200 ppm
	Short time value (workplace directive value)	884 mg / m ³
	Short time value (workplace directive value)	884 mg / m ³
Toluene	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	50 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	192 mg / m ³
	Short time value (workplace directive value)	100 ppm
	Short time value (workplace directive value)	384 mg / m ³
	Short time value (workplace directive value)	384 mg / m ³
Xylol, all Isomers, pure	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	50 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace guideline)	221 mg / m ³
	Short time value (workplace directive value)	100 ppm
	Short time value (workplace directive value)	442 mg / m ³
	Short time value (workplace directive value)	442 mg / m ³

Belgium

2,6-Di-tert-butyl-p-crésol (vapor and aerosol)	Temporarily weighted average exposure limit value 8 h	2 mg / m ³
2-Butanone	Temporarily weighted average exposure limit value 8 h	200 ppm
	Temporarily weighted average exposure limit value 8 h	600 mg / m ³
	Short time value	300 ppm
	Short time value	900 mg / m ³
Ethyl benzene	Temporarily weighted average exposure limit value 8 h	100 ppm
	Temporarily weighted average exposure limit value 8 h	442 mg / m ³
	Short time value	125 ppm
	Short time value	551 mg / m ³
Toluene	Temporarily weighted average exposure limit value 8 h	20 ppm
	Temporarily weighted average exposure limit value 8 h	77 mg / m ³
	Short time value	100 ppm
	Short time value	384 mg / m ³
Xylene, mixed mixtures, pures	Temporarily weighted average exposure limit value 8 h	50 ppm
	Temporarily weighted average exposure limit value 8 h	221 mg / m ³
	Short time value	100 ppm
	Short time value	442 mg / m ³
Zinc (oxide) (smoked)	Temporarily weighted average exposure limit value 8 h	2 mg / m ³
	Short time value	10 mg / m ³

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USA (TLV-ACGIH)

Butylated hydroxytoluene (BHT)	Temporarily weighted average exposure limit value 8 h (TLV - Adopted Value)	2 mg / m ³ (IFV)
Ethyl benzene	Temporarily weighted average exposure limit value 8 h (TLV - Adopted Value)	20 ppm
Methyl ethyl ketone (MEK)	Temporarily weighted average exposure limit value 8 h (TLV - Adopted Value)	200 ppm
	Adopted Value (TLV)	300 ppm
Toluene	Temporarily weighted average exposure limit value 8 h (TLV - Adopted Value)	20 ppm
Zinc oxide	Temporarily weighted average exposure limit value 8 h (TLV - Adopted Value)	2 mg / m ³ (R)
	Adopted Value (TLV)	10 mg / m ³ (R)

IFV: Inhalable fraction and vapor

R: Respirable fraction

Germany

2,6-Di-tert-butyl-p-cresol	Temporary weighted average exposure limit value 8 h (TRGS 10 mg / m ³ 900)	
Butanone	Temporary weighted average exposure limit value 8 h (TRGS 200 ppm 900)	
	Temporary weighted average exposure limit value 8 h (TRGS 600 mg / m ³ 900)	
Ethylbenzol	Temporary weighted average exposure limit value 8 h (TRGS 20 ppm 900)	
	Temporary weighted average exposure limit value 8 h (TRGS 88 mg / m ³ 900)	
Toluene	Temporary weighted average exposure limit value 8 h (TRGS 900)	50 ppm
	Temporary weighted average exposure limit value 8 h (TRGS 190 mg / m ³ 900)	

France

2,6-Di-tert-butyl-p-cresol	Temporarily weighted average exposure limit value 8 h (VL: Non-indicative regulatory value)	10 mg / m ³
Colophane (products from the composition of sourdough baguettes, expressions in formal form)	Temporarily weighted average exposure limit value 8 h (VL: Non-indicative regulatory value)	0.1 mg / m ³
Ethyl benzene	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	20 ppm
	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	88.4 mg / m ³
	Short-term value (VRC: binding regulatory value)	100 ppm
	Short-term value (VRC: binding regulatory value)	442 mg / m ³
Methylethylene	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	200 ppm
	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	600 mg / m ³
	Short-term value (VRC: binding regulatory value)	300 ppm
	Short-term value (VRC: binding regulatory value)	900 mg / m ³
Toluene	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	20 ppm
	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	76.8 mg / m ³
	Short-term value (VRC: binding regulatory value)	100 ppm
	Short-term value (VRC: binding regulatory value)	384 mg / m ³
Xylènes, isomères mixtes, purs	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	50 ppm
	Temporary weighted average exposure limit value 8 h (VRC: Binding regulatory value)	221 mg / m ³
	Short-term value (VRC: binding regulatory value)	100 ppm
	Short-term value (VRC: binding regulatory value)	442 mg / m ³
Zinc (oxyde de, fumées)	Temporarily weighted average exposure limit value 8 h (VL: Non-indicative regulatory value)	5 mg / m ³
Zinc (oxyde de, poussières)	Temporarily weighted average exposure limit value 8 h (VL: Non-indicative regulatory value)	10 mg / m ³

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2,6-Di-tert-butyl-p-cresol	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	10 mg / m ³
Butan-2-one (methyl ethyl ketone)	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	200 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	600 mg / m ³
	Short-term value (Workplace exposure limit (EH40 / 2005))	300 ppm
	Short-term value (Workplace exposure limit (EH40 / 2005))	899 mg / m ³
	Short-term value (Workplace exposure limit (EH40 / 2005))	300 ppm
Ethylbenzene	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	100 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	441 mg / m ³
	Short-term value (Workplace exposure limit (EH40 / 2005))	125 ppm
	Short-term value (Workplace exposure limit (EH40 / 2005))	552 mg / m ³
Rosin-based solder flux fume	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	0.05 mg / m ³
	Short-term value (Workplace exposure limit (EH40 / 2005))	0.15 mg / m ³
Toluene	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	50 ppm
	Temporarily weighted average exposure limit value 8 h (Workplace exposure limit (EH40 / 2005))	191 mg / m ³
	Short-term value (Workplace exposure limit (EH40 / 2005))	100 ppm
	Short-term value (Workplace exposure limit (EH40 / 2005))	384 mg / m ³

b) National Biological Limits These limits

are listed below, insofar as they are available and applicable.

8.1.2 Procedure for sampling

If applicable and available, this is indicated below.

2,6-Di-tert-Butyl-p-Cresol (DBPC)	NIOSH	1 (226)
2-Butanone (MEK) (Methyl ethyl ketone)	NIOSH	2500
2-Butanone (Methyl ethyl ketone)	OSHA	84
2-Butanone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
2-Butanone (Volatile Organic Compounds)	NIOSH	2549
2-Butanone	OSHA	1004
2-Butanone	OSHA	13
ACETONE and METHYL ETHYL KETONE in urine	NIOSH	8319
Di-tert-butyl-p-cresol	OSHA	2108
Ethyl Benzene (Hydrocarbons, Aromatic)	NIOSH	1501
Ethyl Benzene	OSHA	1002
Ethyl Benzene	OSHA	7
MEK	NIOSH	8002
Methyl Ethyl Ketone (Ketones I)	NIOSH	2555
Methyl Ethyl Ketone	OSHA	16
Toluene (Hydrocarbons, aromatic)	NIOSH	1501
Toluene (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
Toluene (Volatile Organic Compounds)	NIOSH	2549
Toluene in blood	NIOSH	8007
Toluene	NIOSH	4000
toluene	NIOSH	8002
Toluene	NIOSH	95-117
Toluene	OSHA	111
Xylene (Volatile Organic Compounds)	NIOSH	2549
Zinc (Elements)	NIOSH	7300
Zinc Oxide	NIOSH	7030
Zinc Oxide	NIOSH	7502
Zinc Oxide	OSHA	ID 121

8.1.3 Applicable limit values for the intended use

The limit values are listed below, insofar as they are available and applicable.

8.1.4 DNEL / PNEC Value

DNEL - Employees

Toluene

Threshold (DNEL / DMEL)	Type	Value	Note
DNEL	Acute systemic effects, inhalation	384 mg / m	
	Acute local effects, inhalation	384 mg / m	
	Long-term systemic effects, dermal	384 mg / kg bw / Tag	
	Long-term systemic effects, inhalation	192 mg / m 192 mg / m	
	Local long-term effects, inhalation		

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Butanone

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	600 mg / m ³	
	Long-term systemic effects, dermal	1161 mg / kg bw / Tag	

Zinc oxide

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	5 mg / m ³	
	Long-term systemic effects, dermal	83 mg / kg bw / day	

2,6-Di-tert-butyl-p-cresol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, dermal	0.5 mg / kg bw / day	
	Long-term systemic effects, inhalation	3.5 mg / m ³	

Xylol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Acute systemic effects, inhalation	289 mg / m ³	
	Acute local effects, inhalation	289 mg / m ³	
	Long-term systemic effects, dermal	180 mg / kg bw / Tag	
	Long-term systemic effects, inhalation	77 mg / m ³	

Colophonium

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	117 mg / m ³	
	Long-term systemic effects, dermal	17 mg / kg bw / Tag	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	2085 mg / m ³	
	Long-term systemic effects, dermal	300 mg / kg bw / day	

Ethylbenzol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	77 mg / m ³	
	Acute local effects, inhalation	293 mg / m ³	
	Long-term systemic effects, dermal	180 mg / kg bw / day	

DNEL - General population

Toluene

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Acute local effects, dermal	226 mg / m ³	
	Acute local effects, inhalation	226 mg / m ³	
	Long-term systemic effects, dermal	226 mg / kg bw / day	
	Long-term systemic effects, inhalation	56.5 mg / m ³ 8.13	
	Long-term systemic effects, oral	mg / kg bw / day 56.5	
	Local long-term effects, inhalation	mg / m ³	

Butanone

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	106 mg / m ³	
	Long-term systemic effects, dermal	412 mg / kg bw / day	
	Long-term systemic effects, oral	31 mg / kg bw / day	

Zinc oxide

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	2.5 mg / m ³	
	Long-term systemic effects, dermal	83 mg / kg bw / day	
	Long-term systemic effects, oral	0.83 mg / kg bw / day	

2,6-Di-tert-butyl-p-cresol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, dermal	0.25 mg / kg bw / day	
	Long-term systemic effects, inhalation	0.86 mg / m ³ 0.25	
	Long-term systemic effects, oral	mg / kg bw / day	

Xylol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Acute systemic effects, inhalation	174 mg / m ³	
	Acute local effects, inhalation	174 mg / m ³	
	Long-term systemic effects, dermal	108 mg / kg bw / Tag	
	Long-term systemic effects, inhalation	14.8 mg / m ³ 1.6 mg /	
	Long-term systemic effects, oral	kg bw / Tag	

Colophonium

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	35 mg / m ³	
	Long-term systemic effects, dermal	10 mg / kg bw / day	
	Long-term systemic effects, oral	10 mg / kg bw / day	

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	447 mg / m ³	
	Long-term systemic effects, dermal	149 mg / kg bw / Tag	
	Long-term systemic effects, oral	149 mg / kg bw / Tag	

Ethylbenzol

Threshold (DNEL / DMEL)	Typ	Value	Note
DNEL	Long-term systemic effects, inhalation	15 mg / m	
	Long-term systemic effects, oral	1.6 mg / kg bw / day	

PNEC

Toluene

Media	Value	Note
Sewage water	0.68 mg / l	
Meerwasser	0.68 mg / l	
Water (intermittent release)	0.68 mg / l	
STP	13.61 mg / l	
Sewage sediment	16.39 mg / kg Sediment dw	
Seawater sediment	16.39 mg / kg Sediment dw	
Boden	2.89 mg / kg Boden dw	

Butanone

Media	Value	Note
Sewage water	55.8 mg / l	
Meerwasser	55.8 mg / l	
Water (intermittent release)	55.8 mg / l	
STP	709 mg / l	
Sewage sediment	284.74 mg / kg Sediment dw	
Seawater sediment	284.7 mg / kg Sediment dw	
Boden	22.5 mg / kg Boden dw	
Food	1000 mg / kg food	

Zinc oxide

Media	Value	Note
Sewage water	20.6 / g / l	
Meerwasser	6.1 / g / l	
STP	100 / g / l	
Sewage sediment	117.8 mg / kg Sediment dw	
Seawater sediment	56.5 mg / kg Sediment dw	
Boden	35.6 mg / kg Boden dw	

2,6-Di-tert-butyl-p-cresol

Media	Value	Note
Sewage water	0.199 / g / l	
Meerwasser	0.0199 / g / l	
Water (intermittent release)	1.99 µg / l	
STP	0.17 mg / l	
Sewage sediment	99.6 / g / kg Sediment dw	
Seawater sediment	9.96 / g / kg Sediment dw	
Boden	47.69 / g / kg Boden dw	
Oral	8.33 mg / kg diet	

Xylol

Media	Value	Note
Sewage water	0.327 mg / l	
Meerwasser	0.327 mg / l	
Water (intermittent release)	0.327 mg / l	
STP	6.58 mg / l	
Sewage sediment	12.46 mg / kg Sediment dw	
Seawater sediment	12.46 mg / kg Sediment dw	
Boden	2.31 mg / kg Boden dw	

Colophonium

Media	Value	Note
Sewage water	0.0016 mg / l	
Meerwasser	0.00016 mg / l	
Water (intermittent release)	0.016 mg / l	
STP	10 mg / l	
Sewage sediment	0.007 mg / kg Sediment dw	
Seawater sediment	0.0007 mg / kg Sediment dw	
Boden	0.00045 mg / kg Boden dw	

Soudal Carjoint

Ethylbenzol

Media	Value	Note
Sewage water	0.1 mg / l	
Meerwasser	0.01 mg / l	
Water (intermittent release)	0.1 mg / l	
STP	9.6 mg / l	
Sewage sediment	13.7 mg / kg Sediment dw	
Boden	2.68 mg / kg Boden dw	
Oral	0.02 g / kg food	

8.1.5 Control banding

If applicable and available, this is indicated below.

8.2 Limitation and monitoring of exposure:

The information contained in this section is a general description. If applicable and available, the exposure scenarios are included in the appendix. You must always use related exposure scenarios that correspond to their identified uses.

8.2.1 Remove suitable technical control devices from

open flames / heat sources. In case of insufficient ventilation: Avoid open flames / sparks. In case of insufficient ventilation: Spark-free / explosion-proof equipment / lights. Take regular concentration measurements in the air. Work under local suction / ventilation.

8.2.2 Individual protective measures, for example personal protective equipment

Strict Hygiene adhered to. Keep container tightly closed. Do not eat, drink or smoke at work. a) Respiratory protection: Gas mask with filter type A at conc. in the air > Exposure limit value. b) Gloves: Gloves. c) Eye protection: Goggles.

d) Skin protection:

Protective clothing.

8.2.3 Limitation and monitoring of environmental exposure:

See points 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1 Information on the basic physical and chemical properties:

Appearance	Thick fluid
Smell	Solvent odor
Odor threshold	No data available
Color	Product color is compositional
Particle graph	No data available
Explosion limits	No data available
Inflammability	Liquid and vapor easily flammable.
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	<23 ° C
Evaporation rate	No data available
Relative vapor density	>
Vapor pressure	1 <1100hPa; 50 ° C
Solubility	Water; unlöslich
Relative density	> 1
Decomposition temperature	No data available
Self-ignition temperature	No data available
Danger of explosion	No chemical group that is associated with explosive properties
Oxidizing properties pH	No chemical group that is associated with oxidizing properties
	No data available

9.2 Other information:

Absolute density	> 1000kg / m³
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SECTION 10: Stability and reactivity

10.1 Reactivity:

Possible inflammation by sparks. Gas / vapor spreads in soil: Danger of ignition.

10.2 Chemical stability:

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

Stable under normal conditions.

10.3 Possibility of dangerous reactions:

No data available.

10.4 To avoid conditions:

Keep away from open flames / heat sources. In case of insufficient ventilation: Avoid open flames / sparks. In case of insufficient ventilation: Spark-free / explosion-proof equipment / lights.

10.5 Intolerable materials:

No data available.

10.6 Hazardous decomposition products:

Upon combustion, CO and CO₂ are formed and metal formation is pumped out.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral (one dosage) LD50		f equivalent to OECD 53801	380mg / kg bw		Rat (male) Experimental	Value	
Dermal	LD50	Other	> 5000mg / kg bw 24 Stdn		Rabbit (male)	Experimental Value	
Inhalation (Damp) LC50		f equivalent to OECD 257mg / l Air 403		4 Stdn	Rat (male) Experimental	Value	

Butanone

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	f equivalent with OECD 2054mg / kg 423			Rat (male) Read-across		
Oral	LD50	f equivalent with OECD 2328mg / kg 423 f equivalent with OECD 2193mg /			Rat (female)	Read-across	
Oral	LD50	kg bw 423			Ratte	Read-across	
Dermal	LD50	f equivalent with OECD > 0ml / kg bw 402		24 Stdn	Rabbit (male)	Experimental Value	
Inhalation						Data waiver	

Zinc oxide

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	f equivalent with OECD > 5000mg / kg 401			Ratte (male / female)	Experimental Value	
Dermal	LD50	OECD 402	> 2000mg / kg bw 24 Stdn		Ratte (male / female)	Experimental Value	
Inhalation (Stube) LC50		f equivalent with OECD > 5.7mg / l 403		4 Stdn	Ratte (male / female)	Experimental Value	

2,6-Di-tert-butyl-p-cresol

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	OECD 401	Value > 6000mg / kg bw		Rat (male / female)	Experimental Value	
Dermal	LD50	OECD 402	> 2000mg / kg bw 24 Stdn		Ratte (male / female)	Experimental Value	

Xylo

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	OECD 401	3523mg / kg bw		Rat (male) Experimental	Value	
Oral	LD50	OECD 401	> 4000mg / kg bw		Rat (female)	Experimental Value	
Dermal	LD50	OECD 402	> 4200mg / kg bw 4 Stdn		Rabbit (male)	Experimental Value	
Dermal			Category 4			Appendix VI	
Inhalation	LC50	OECD 403	27.57mg / l	4 Stdn	Rat (male) Experimental	Value	
Inhalation			Category 4			Appendix VI	

Processing basis: ATP4

Date of creation: 2004-01-08

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Processing number: 0500

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Soudal Carjoint

Colophonium

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	Other	2800mg / kg bw		Ratte (male / female)	Experimental Value	
Dermal	LD50	OECD 402	> 2000mg / kg bw 24	Std	Ratte (male / female)	Experimental Value	
Inhalation						Data waiver	

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral	LD50	Other	Value> 5840mg / kg bw		Rat (male / female)	Read-across	
Dermal	LD50	Other	> 2800mg / kg bw 24	Std	Rat (male / female)	Read-across	
Inhalation (Damp) LC50		fquivalent with OECD	> 23.3mg / l Air 4 hours 403		Ratte (male / female)	Read-across	

Ethylbenzol

Expositionsweg	Parameter	Method	Value	Exposure time	Species	Valuation Note	
Oral (one dosage) LD50			3500mg / kg		Ratte (male / female)	Experimental Value	
Dermal	LD50	Other	15432mg / kg	24 Std	Rabbit (male)	Experimental Value	
Inhalation	LC50	Other	4000ppm	4 Std	Rat (male) literature study		

Judging is based on the relevant components

Conclusion

Not for acute toxicity

Corrosive / irritant effect

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	No irritant effect f equivalent	OECD 405		24; 48; 72 hours rabbit		Experimental Value	Once upon a time Administration
Haut	Irritant effect	fquivalent mit OECD 404	4 Std	24; 48; 72 hours rabbit		Experimental Value	

Butanone

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	Irritant effect	fquivalent mit OECD 405			Rabbit	Experimental Value	Once upon a time Exposition
Haut	No stimulus effect	OECD 404	4 Std		Rabbit	Read-across	

Zinc oxide

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	No stimulus effect	OECD 405	24 Std	24; 72 Std	Rabbit	Experimental Value	
Haut	No stimulus effect	OECD 404	24 Std	24 hours	Rabbit	Experimental Value	

2,6-Di-tert-butyl-p-cresol

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	No stimulus effect	OECD 405		24; 72 Std	Rabbit	Experimental Value	
Haut	No stimulus effect	OECD 404		24; 72 Std	Rabbit	Experimental Value	

Xylol

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	M % flig traveling	OECD 405		24; 48; 72 hours rabbit		Experimental Value	
Haut	M % flig traveling		4 Std	24; 72 Std	Rabbit	Experimental Value	
Inhalation (Steam)	Irritant effect		4 Std		Man		

Colophonium

Exposure path	result	Method	Exposure time	Time	Species	Valuation Note	
Eye	No stimulus effect	OECD 405		24; 48; 72 hours rabbit		Experimental Value	Once upon a time Administration
Haut	No stimulus effect	OECD 404	4 Std	24; 48; 72 hours rabbit		Experimental Value	

Processing basis: ATP4

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Processing number: 0500

Product number: 40318

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Soudal Carjoint

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Exposure path result	Method	Exposure time	Time	Species	Valuation Note	
Eye	No irritating effect	Other		Rabbit	Read-across	Once upon a time Administration
Haut	Irritant effect	f equivalent mit OECD 404	4 Stdn	24; 48; 72 hours rabbit	Read-across	

Ethylbenzol

Exposure path result	Method	Exposure time	Time	Species	Valuation Note	
Eye	Slightly traveling	Other		Rabbit	Experimental Value	
Haut	M % flig traveling	Other	24 Stdn	Rabbit	Experimental Value	

Grading is based on the relevant ingredients

Conclusion

Causes severe eye irritation.

Causes skin irritation.

Not as traveling for the respiratory system

Respiratory / skin sensitization

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	f equivalent to OECD 406	72 Stdn	24; 48 hours	Guinea pigs (female)	Experimental n Value

Butanone

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	OECD 406		24; 48 hours	Guinea pigs (female)	Experimental n Value

Zinc oxide

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	OECD 406			Guinea pigs (female)	Experimental n Value
Haut	Not sensitizing	Observation of People	2 days (continuous)	72 Std	Man	Experimental Value

2,6-Di-tert-butyl-p-cresol

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	Guinea pig Maximization test		24; 48 hours	Guinea pigs n (male / female ch)	Experimental Value
Haut	Not sensitizing	Observation of People			Man (male / female ch)	Experimental Value

Xylol

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	OECD 429			Mouse	Experimental Value

Colophonium

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	Observation of People			Man (male / female ch)	Experimental Value
Haut	Not sensitizing	Observation of People			Human (female)	Read-across

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note	
Haut	Not sensitizing	f equivalent to OECD 406		24; 48 hours	Guinea pigs n (male / female ch)	Read-across

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

Ethylbenzol

Exposure path result	Method	Exposure time	Observation time point	Species	Valuation Note
Haut	Not sensitizing	Other		Man	Not conclusive, insufficient

Judging is based on the relevant components

Conclusion

Not as a skin sensitizer

Not classified as an inhalation sensitizer

Specific target organ toxicity

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Exposure path	Parameter method		Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	fquivalent mit OECD 408	625mg / kg bw / Tag		No effect for 13 weeks (daily, 5 days / week)		Mouse (male / female) ch)	Experimental Value
Dermal								Data waiver
Inhalation (Steam)	LOAEC	fquivalent mit OECD 453	600ppm	Respiratory tract	Erosion / Degeneration des (6Std / Tag, 5 Nasenepithels	103 weeks (6Std / Tag, 5 Days / weeks)	Ratte (male / female) ch)	Experimental Value
Inhalation	NOAEC	Observation of humans	50ppm	Central Nervous system	No effect 4.5 hrs		Human (male)	Experimental Value

Butanone

Exposure path	Parameter method		Value	Organ	Effect	Exposure time	Species	Value determination
Oral								Data waiver
Dermal								Data waiver
Inhalation (Steam)	NOAEC	fquivalent mit OECD 413	5041ppm		No effect 13 weeks	(6Stdn / Tag, 5 Days / weeks)	Ratte (male / female ch)	Experimental Value
Inhalation (Steam)			STOT SE Kat.3	Central Nervous system	Schl % frigkeit, Benommenheit			Appendix VI

Zinc oxide

Exposure path	Parameter method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (Di % t)	NOEL	OECD 408	3000ppm	No effect 13 weeks (daily) Rat (male / female) ch			Read-across
Inhalation (Aerosol)	NOAEL	OECD 413	1.5mg / m³ Air	No effect 13 weeks (6Std / Tag, 5 Days / weeks)	Rat (male) Experimental Value		

2,6-Di-tert-butyl-p-cresol

Exposure path	Parameter method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (Di % t)	NOAEL	25mg / kg bw / Tag		No effect		Ratte (male / female) ch	Experimental Value

Xylol

Exposure path	Parameter method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	LOAEL	Equivalent mit OECD 408	150mg / kg bw / Tag	Weight gain me	90 Day (s)	Rat (male / female) ch	Experimental Value
Inhalation (Steam)	NOAEC	Subchronic Toxicity % tspr, fu ng	3515mg / m³	No effect 13 weeks (6Std / Tag, 5 Days / weeks)	Rat (male) Experimental Value		

Colophonium

Exposure path	Parameter method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral (Di % t)	NOAEL	Subchronic Toxicity % tspr, fu ng	0.2%	No effect 90 day (s)		Rat (male / female) ch	Not conclusive, insufficient Dates
Dermal							Data waiver
Inhalation							Data waiver

Processing basis: ATP4

Date of creation: 2004-01-08

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Processing number: 0500

Product number: 40318

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Soudal Carjoint

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Exposure path	Parameter method		Value	Organ	Effect	Exposure time	Species	Value determination
Inhalation (Steam)	NOAEC	Subchronic Toxicity % tspr, fu ng	12470mg / m ³ Air	Central Nervous system	No effect 16 weeks	(daily) Rat (monthly)	Read-across	
Inhalation (Steam)	NOAEL	f equivalent mit OECD 413	12350mg / m ³ Air		No unwanted systemic Effects	16 weeks (6Std / Tag, 5 Days / weeks)	Rat (male / female) ch)	Read-across
Inhalation (Steam)	LOAEL	f equivalent mit OECD 413	1650mg / m ³ Air	Central Nervous system	CNS depression 26 weeks	(6Std / Tag, 5 Days / weeks)	Rat (male / female) ch)	Read-across

Ethylbenzol

Exposure path	Parameter method		Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	OECD 407	75mg / kg bw / Tag	Liver	Vergrößerung / Schädigung der Leber	28 Tag (e)	Ratte (male / female) ch)	Experimental Value
Oral	NOAEL	OECD 408	75mg / kg bw / Tag	Liver	Vergrößerung / Schädigung der Leber	13 week (s)	Ratte (male / female) ch)	Experimental Value
Oral	LOAEL	OECD 408	250mg / kg bw / Tag	Liver	Vergrößerung / Schädigung der Leber	13 week (s)	Ratte (male / female) ch)	Experimental Value
Oral	NOAEL	Equivalent to 500mg / kg OECD 424 bw / day			No effect 90 day (s)		Ratte (male / female) ch)	Experimental Value
Inhalation (Steam)	LOAEC	f equivalent mit OECD 453	75ppm		No effect 104 weeks	(6Std / Tag, 5 Days / weeks)	Ratte (male / female) ch)	Experimental Value
Inhalation	NOAEL	f equivalent mit OECD 413	1000ppm		No effect 13 weeks	(6Std / Tag, 5 Days / weeks)	Rat (male / female) ch)	Experimental Value
Inhalation	NOAEC	OECD 412	800ppm	Liver		4 weeks (6Std / Tag, 5 Days / weeks)	Mouse (male / female) ch)	Experimental Value
Inhalation	NOAEC	OECD 412	800ppm	Liver	Vergrößerung / Schädigung der Leber	4 weeks ch (6Std / Tag, 5 Days / weeks)	Ratte (male / female) ch)	Experimental Value

Grading is based on the relevant ingredients

Conclusion

May cause drowsiness and drowsiness.

Not for subchronic toxicity graded

Germ cell mutagenicity (in vitro)

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Result	Method f	Test Substrate	Effect	Valuation
Negative	equivalent to OECD 476	Mouse (Lymphoma cells L5178Y)	No effect	Experimental value
Negative	f equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Butanone

Result	Method	Test substrate	Effect	Valuation
Negative	f equivalent to OECD 473	Rat liver cells	No effect	Experimental value
Negative with Metabolic activation, negative without Metabolic activation	f equivalent to OECD 476	Mouse (lymphoma cells L5178Y)	No effect	Experimental value
Negative with Metabolic activation, negative without Metabolic activation	f equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Zinc oxide

Result	Method f	Test substrate	Effect	Valuation
Negative	equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

2,6-Di-tert-butyl-p-cresol

Result	Method	Test substrate	Effect	Valuation
Negative	Ames test	Bacteria (S.typhimurium)	No effect	Experimental value
Negative	f equivalent to OECD 473	Chinese hamster eggs	No effect	Experimental value
Negative	f equivalent to OECD 479	Ovaries of the Chinese Hamsters	No effect	Experimental value

Xylol

Result	Method	Test substrate	Effect	Valuation
Negative	Other	Ovaries of the Chinese Hamsters	No effect	Experimental value

Colophonium

Result	Method	Test substrate	Effect	Valuation
Negative with Metabolic activation, negative without Metabolic activation	OECD 471	substrate Bacteria (S.typhimurium)	No effect	Experimental value
Negative	OECD 476	Mouse (Lymphoma cells L5178Y)	No effect	Experimental value
Negative	OECD 473	Human lymphocytes	No effect Hydrocarbons,	Experimental value

C7, n-alkanes, isoalkanes, cyclic compounds Method Test substrate Effect f equivalent with OECD 473 Rat liver cells No

Result	Method	Test substrate	Effect	Valuation
Negative	effect f equivalent with OECD 471	Bacteria (S.typhimurium)		Read-across
Negative			No effect	Read-across
Negative	OECD 476	Human lymphocytes	No effect	Read-across

Ethylbenzol

Result	Method	Test substrate	Effect	Valuation
Negative with Metabolic activation, negative without Metabolic activation	OECD 476	Mouse (lymphoma cells L5178Y)	No effect	Experimental value
Negative with Metabolic activation, negative without Metabolic activation	f equivalent to OECD 473	Ovaries of the Chinese Hamsters	No effect	Experimental value

Germ cell mutagenicity (in vivo)

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	Other		Ratte		Experimental value
Negative	equivalent with OECD 478	8 weeks (6Stdn / day, 5 Days / weeks)	Mouse (male)		Experimental value

Butanone

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	f equivalent to OECD 474		Mouse (male / female)		Experimental value

Zinc oxide

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	OECD 474		Mouse (male)	Bone marrow	Experimental value

2,6-Di-tert-butyl-p-cresol

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	Chromosome Aberration test	8 weeks (daily)	Mouse (male)		Experimental value
Negative	Micronucleus test		Mouse (female)	Bone marrow	Experimental value

Xylol

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	f equivalent to OECD 478		Mouse (male / female)		Experimental value

Ethylbenzol

Result	Method	Exposure time	Test substrate	Organ	Valuation
Negative	OECD 486	6 Stdn	Mouse (male / female)		Experimental value
Negative	OECD 474	48 Stdn	Mouse (male)		Experimental value

Carcinogenicity

Soudal Carjoint

No (experimental) data on the mixture are available

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

Toluene

Expositions	Parameter Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (Steam)	NOAEC	fquivalent mit OECD 453	1200ppm	103 weeks (6Std / Tag, 5 Days / weeks)	Rat (male / female) ch	Experimental Value	No effect
Dermal	NOAEL	Not further determined	0.05ml (twice a week)		Mouse (male) Experimental Value		No effect

2,6-Di-tert-butyl-p-cresol

Expositions	Parameter Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral		Not further determined	104 week (s)	Rat (male / female) ch	Experimental Value		No cancer Effect

Xylol

Expositions	Parameter Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral	NOAEC	Other	500mg / kg bw / Tag	103 weeks (5 Days / weeks)	Rat (male / female) ch	Experimental Value	No effect

Colophonium

Expositions	Parameter Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation					Data waiver		
Dermal					Data waiver		
Oral					Data waiver		

Ethylbenzol

Expositions	Parameter Method	Value	Exposure time	Species	Value determination	Organ	Effect
Inhalation (Steam)	NOAEC	fquivalent mit OECD 453	250ppm	104 weeks (6Std / Tag, 5 Days / weeks)	Ratte (male / female) ch	Experimental Value	No effect

Reproductive toxicity

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		EPA OTS 798.4350	750ppm	20 days (6Std / Tag)	Rat (female)	No effect		Experimental Value
Maternal Toxicity ‰ t	NOAEC	EPA OTS 798.4350	750ppm	20 days (6Std / Tag)	Rat (female)	Maternal Toxicity ‰ t		Experimental Value
Effects on Fertility	NOAEC (P)	OECD 416	2000ppm	11 weeks (6Std / Tag, 7 Days / weeks)	Rat (male / female) ch	No effect		Experimental Value
	NOAEC (F1) OECD 416		500ppm	11 weeks (6Std / Tag, 7 Days / weeks)	Rat (male / female) ch	No effect		Experimental Value
	NOAEC (F2) OECD 416		500ppm	11 weeks (6Std / Tag, 7 Days / weeks)	Ratte (female) ch	No effect (male / female)		Experimental Value

Butanone

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		fquivalent mit OECD 414	1002ppm	10 days (7Std / Tag)	Ratte	No effect fetus		Experimental Value
Maternal Toxicity ‰ t	NOAEC	fquivalent mit OECD 414	1002ppm	10 days (7Std / Tag)	Rat (female)	No effect		Experimental Value
Effects on Fertility	NOAEL	equivalent with OECD 416	1644mg / kg bw / Tag - 1771mg / kg bw / Tag		Ratte (female) ch	No effect (male / female)		Read-across

Soudal Carjoint

Zinc oxide

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		OECD 414	7.5mg / kg bw / Tag	14 days (6Stdn / Tag)	Ratte	No effect fetus		Experimental Value
Maternal Toxicity ‰ t	NOAEC	OECD 414	7.5mg / kg bw / Tag	14 days (6Stdn / Tag)	Ratte	No effect		Experimental Value
Effects on Fertility	NOAEL (F1)	fquivalent mit OECD 416	7.5mg / kg bw / Tag	22 weeks (daily)	Rat (male / female) ch)	No effect		Read-across

2,6-Di-tert-butyl-p-cresol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity to NOAEL		fquivalent mit OECD 414	375mg / kg bw / Tag		Rat (female)	No effect Fetus		Experimental Value
Maternal Toxicity ‰ t	NOAEL	fquivalent mit OECD 414	93.5mg / kg bw / Tag		Rat (female)	No effect		Experimental Value
Effects on Fertility	NOAEL		500mg / kg bw / Tag		Rat (female)	No effect		Experimental Value
	NOAEL		100mg / kg bw / Tag		Rat (male)	No effect		Experimental Value

Xylol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		fquivalent mit OECD 414	100ppm	21 days (6Stdn / Tag)	Ratte (female) ch)	No effect (male / female)		Experimental Value
Maternal Toxicity ‰ t	NOAEC	OECD 414	500ppm		Ratte	No effect		Experimental Value
Effects on Fertility	NOAEC (P)	EPA OPPTS 870.3800	500ppm	70 days (6Stdn / Tag)	Ratte (female) ch)	No effect (male / female)		Experimental Value
	NOAEC (F1)	EPA OPPTS 870.3800	500ppm	70 days (6Stdn / Tag)	Ratte (female) ch)	No effect (male / female)		Experimental Value

Colophonium

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity NOAEL (F1) OECD 421			3000ppm	30-45 Tag (e)	Ratte (female) ch)	No effect (male / female)		Experimental Value
Effects on Fertility	NOAEL (P)	OECD 421	3000ppm	30-45 Tag (e)	Ratte (female) ch)	No effect (male / female)		Experimental Value

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		Other	1200ppm	10 days (6Stdn / Tag)	Ratte	No effect		Read-across
	NOAEL	fquivalent mit OECD 414	3000ppm	10 days (6Stdn / Tag)	Mouse	No effect		Read-across
	LOAEL	fquivalent mit OECD 414	9000ppm	10 days (6Stdn / Tag)	Mouse	Insignificant Skeletal converts ungen	Skeleton	Read-across
Maternal Toxicity ‰ t	NOAEC		1200ppm		Rat (female)	No effect		Read-across
	NOAEL	fquivalent mit OECD 414	900ppm	10 days (6Stdn / Tag)	Rat (female)	No effect		Read-across
	LOAEL	fquivalent mit OECD 414	3000ppm	10 days (6Stdn / Tag)	Rat (female)	Damage / Degeneration des Lung tissue	Lung	Read-across
Effects on Fertility	NOAEL (P / F1) fquivalent mit OECD 416		9000ppm		Rat (male / female) ch)	No effect		Read-across

Soudal Carjoint

Ethylbenzol

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
NOAEC Developmental Toxicity		OECD 414	500ppm	15 days (Pregnancy, at the same time)	Rat (female)	No effect		Experimental Value
	NOAEC	OECD 426	500ppm	70 days (6Stdn / Tag)	Ratte (female) ch)	No effect (male /		Experimental Value
Effects on Fertility	NOAEC (P / F1 / F2)	OECD 416	500ppm	70 days (6Stdn / Tag)	Ratte (female) ch)	No effect (male /		Experimental Value
	NOAEC (P)	fquivalent mit OECD 415	1000ppm	2 week (s) rat	(female) ch)	No effect (male /		Experimental Value
	NOEC (F1)	fquivalent mit OECD 415	100ppm		Ratte (female) ch)	No effect (male /		Experimental Value
	NOAEL	Other	750ppm	104 weeks (6Stdn / day, 5 (male / female) Days / weeks) ch)	Mouse	No effect		Experimental Value
	NOEC	OECD 408	750ppm	13 Week (s) Rat	(female) ch)	No effect (male /		Experimental Value

Judging is based on the relevant components

Conclusion CMR

- Not classified for reproductive or developmental toxicity
- Not classified for mutagenic toxicity or genotoxicity
- Not for carcinogenic grade

Toxicity other effects

Soudal Carjoint

No (experimental) data on the mixture are available

Butanone

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Valuation
	fquivalent mit OECD 404		Haut	Crisp or cracked Haut			Read-across

Chronic effects after short or long-term exposure

Soudal Carjoint

EVEN LONG-TERM / REPEATED EXPOSITION / CONTACT: Feeling sick. Dry skin. Itching / irritation of the skin. Skin rash / inflammation. Gastrointestinal complaints.

SECTION 12: Environmental information

12.1 Toxicity:

Soudal Carjoint

No (experimental) data on the mixture are available

Toluene

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50		5.5 mg / l	96 Stdn	Oncorhynchus kisutch	Durchflusssys		Sewage Experimental Tem Value
Acute Toxicity of Invertebrates	LC50	US EPA	3.78 mg / l	48 Stdn	Ceriodaphnia dubia			Sewage experimental Value
Toxicity to algae and others Aquatic plants	EC50		12.5 mg / l	72 Stdn	Selenastrum capricornutum			Literature study
Chronic toxicity to fish NOEC			1.39 mg / l	40 Tag (s)	Oncorhynchus kisutch	Durchflusssys		Sewage Experimental Tem Value; Waiting rate
Chronic toxicity Water invertebrate	NOEC	US EPA	0.74 mg / l	7 Tag (s)	Ceriodaphnia dubia			Sewage experimental Value; Reproduction
Toxicity of water The microorganisms	EC50		84 mg / l	24 Stdn	Nitrosomonas Statistones	System		Sewage experimental Value

Processing basis: ATP4

Date of creation: 2004-01-08
Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

Butanone

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50	OECD 203	2993 mg / l	96 Stdn	Pimephales promelas	Static mykiss System	Sewage experimental	Value; T'dlich
Acute Toxicity of Invertebrates	EC50	OECD 202	308 mg / l	48 Stdn	Daphnia magna	Statisches System	Sewage experimental	Value; Movement
Toxicity to algae and others Aquatic plants	EC50	OECD 201	1972 mg / l	72 Stdn	Pseudokirchneria subcapitata	Statisches System	Sewage experimental	Value; Waiting rate
Toxicity of water The microorganisms	EC0	DIN 38412-8	1150 mg / l	16 Stdn	Pseudomonas putida	Static System	Sewage experimental	Value

Zinc oxide

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50	ASTM E729-88	0.169 mg / l	96 Stdn	Oncorhynchus mykiss	Static mykiss System	Sewage Read-across	Value; Zincion
Acute Toxicity of Invertebrates	LC50	Equivalent OECD 202	0.33 - 0.66 mg / l with	48 Stdn	Daphnia magna	Statisches System	Sewage Read-across	Value; Zincion
Toxicity to algae and others Aquatic plants	IC50	OECD 201	0.136 mg / l	72 Stdn	Pseudokirchneria subcapitata	Static System	Sewage experimental	Value; Zincion
	NOEC	OECD 201	0.024 mg / l	3 Tag (e)	Pseudokirchneria subcapitata	Static System	Sewage experimental	Value; Zincion
Chronic toxicity to fish	NOEC	OECD 215	0.199 mg / l	30 Tag (e)	Oncorhynchus mykiss	Durchflusssystem	Sewage Read-across	Value; Zincion
Chronic toxicity Water invertebrate	NOEC	OECD 211	0.048 - 0.156 mg / l	21 Day (s)	Daphnia magna	Semistatic System	Sewage Read-across	Value; Zincion
Toxicity of water The microorganisms	EC50	Equivalent with OECD 209	5.2 mg / l	3 Stdn	Living mud static	Static System	Sewage Read-across	Value; Inhibition

2,6-Di-tert-butyl-p-cresol

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC0	EU Method C.1 ECOSAR	> = 0.57 mg / l	96 Stdn	Brachydanio rerio	Semistatic	Sewage experimental	Value; GLP
	LC50	ECOSAR v1.000	199 mg / l	96 Stdn	Pisces			Value; GLP
Acute Toxicity of Invertebrates	EC50	OECD 202	148 mg / l	48 Stdn	Daphnia magna	Statisches System	Sewage experimental	Value; GLP
	NOEC	OECD 202	0.15 mg / l	48 Stdn	Daphnia magna	Statisches System	Sewage experimental	Value; GLP
Toxicity to algae and others Aquatic plants	EC50	ECOSAR v1.000	758 mg / l	96 Stdn	Algae			Calculation value
Chronic toxicity to fish	NOEC	ECOSAR v1.000	0.041 mg / l		Pisces			Calculation value; Chronic
Chronic toxicity Water invertebrate	NOEC	OECD 202	0.316 mg / l	21 Tag (e)	Daphnia magna			Experimental Value; GLP
Toxicity of water The microorganisms	EC50		1.7 mg / l	24 Stdn	Tetrahymena pyriformis	Static System	Sewage experimental	Value

XyloL

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50	OECD 203	2.6 mg / l	96 Stdn	Oncorhynchus mykiss	Static mykiss System	Sewage Read-across	Value; T'dlich
Acute Toxicity of Invertebrates	EC50		3.82 mg / l	48 Stdn	Daphnia magna	Durchflusssystem	Sewage Read-across	Value
Toxicity to algae and others Aquatic plants	EC50	OECD 201	4.36 mg / l	73 Stdn	Pseudokirchneria subcapitata	Statisches System	Sewage experimental	Value; Waiting rate
Chronic toxicity to fish	NOEC		> 1.3 mg / l	56 Tag (s)	Oncorhynchus mykiss	Durchflusssystem	Sewage experimental	Value; T'dlich
Chronic toxicity Water invertebrate	NOEC	US EPA	1.17 mg / l	7 Tag (s)	Ceriodaphnia dubia		Sewage Read-across	Value; Reproduction

Soudal Carjoint

Colophonium

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50	OECD 203	1 - <10 mg / l 96	Std	Brachydanio rerio	Semistatic	Sewage experimental	s system Value; GLP
Acute Toxicity of Invertebrates	EC50	OECD 202	911 mg / l	48 Std	Daphnia magna	Static System	Sewage experimental	Value; GLP
Toxicity to algae and others Aquatic plants	ErC50	OECD 201	> 1000 mg / l 72	Std	Selenastrum capricornutum	Static System	Sewage experimental	Value; GLP
Toxicity of water The microorganisms	EC50	OECD 209	> 10000 mg / l 3	Std	Living mud static	System	Sewage experimental	Value; GLP

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LL50	OECD 203	> 13.4 mg / l WAF	96 Std	Oncorhynchus	Semistatic	Sewage Experimental	Mykiss system Value; GLP
Acute Toxicity of Invertebrates	EL50	OECD 202	3.0 mg / l WAF 48	Std	Daphnia magna	Static System	Sewage experimental	Value; GLP
Toxicity to algae and others Aquatic plants	ErC50	OECD 201	30 - 100 mg / l WAF	72 Std	Pseudokirchneria subcapitata	Static System	Sewage Experimental	or lla Value; GLP
	ErC50	OECD 201	13 mg / l WAF 72	Std	Pseudokirchneria subcapitata	Static System	Sewage Read-across	GLP
Chronic toxicity to fish	NOELR		1,534 mg / l 28		Oncorhynchus mykiss		Sewage water	QSAR
Chronic toxicity Water invertebrate	NOEC		0.17 mg / l	21 Day (s)	Daphnia magna			Literature
	LOEC		0.32 mg / l	21 Day (s)	Daphnia magna			Literature
Toxicity of water The microorganisms	EL50		26.81 mg / l 48	Std	Tetrahymena pyriformis		Wastewater	QSAR; Waiting rate

Ethylbenzol

	Parameter	Method	Value	Duration	Species	Test plan	Sweet / Salt water	Valuation
Acute Toxicity To Fish	LC50	OECD 203	4.2 mg / l	96 Std	Salmo gairdneri	Semistatische	Sewage experimental	s system Value
Acute Toxicity of Invertebrates	EC50	US EPA	1.8 - 2.4 mg / l 48	Std	Daphnia magna	Static System	Sewage experimental	Value
Toxicity to algae and others Aquatic plants	EC50	OECD 201	4.6 mg / l	72 Std	Selenastrum capricornutum			Experimental Value; Waiting rate
Chronic toxicity to fish	ChV	ECOSAR v1.001	13 mg / l 1	30 Day (s)	Pisces			QSAR
Chronic toxicity Water invertebrate	NOEC	EPA	mg / l US	7 Tag (s)	Ceriodaphnia dubia	Semistatic	Sewage experimental	s system Value; Reproduction
Toxicity of water The microorganisms	EC50		96 mg / l	24 Std	Nitrosomonas			Experimental Value

	Parameter	Method	Value	Duration	Species	Valuation
Toxicity % t Soil macroorganisms	LC50	OECD 207	0.042-0.053 mg / cm ²	48 hrs	Eisenia fetida	Experimental Value

Grading is based on the relevant ingredients

Conclusion

Harmful to aquatic organisms, has a long-term effect.

12.2 Persistence and degradability:

Toluene

Biological degradability of water

Method	Value	Duration	Valuation
OECD 301C: Modified MITI Test (I)	100%	14 Day (s)	Experimental value

Half-life Boden (t1 / 2 Boden)

Method	Value	Primary construction / mineralization	Valuation
	2.6 Tag (s)		Literature study

Soudal Carjoint

Butanone

Biological degradability of water

Method	Value	Duration	Valuation
OECD 301D: Closed Bottle Test 98%; GLP		28 Day (s)	Experimental value

Phototransformation Air (DT50 Air)

Method	Value	Conc. OH-Radicals	Valuation
	2.7-26.7 Stdn		Calculation value

Half-life Boden (t1 / 2 Boden)

Method	Value	Primary construction / mineralization	Valuation
	1-7 Day (s)		Calculation value

2,6-Di-tert-butyl-p-cresol

Biological degradability of water

Method	Value	Duration	Valuation
OECD 301C: Modified MITI Test (I)	4.5%	28 Day (s)	Experimental value

Phototransformation Air (DT50 Air)

Method	Value	Conc. OH-Radical	Valuation
AOPWIN v1.92	7.02 Stdn	1.5E6 / cm ³	Calculation value

Biological degradability soil

Method	Value	Duration	Valuation
	63.82%	1 Tag (s)	Experimental value

Half-life water (t1 / 2 water)

Method	Value	Primary construction / mineralization	Valuation
BIOWIN 4.10	37.5 Tag (e); QSAR	Prim Abb rer Abbau	Calculation value

Half-life of soil (t1 / 2 soil)

Method	Value	Primary construction / mineralization	Valuation
EPI Suite	75 Tag (s)	Prim Abb rer Abbau	Calculation value

Half-life air (t1 / 2 air)

Method	Value	Primary construction / mineralization	Valuation
AOPWIN v1.92	7,018 Stdn	Prim Abb rer Abbau	Calculation value

Xylol

Biodegradability Water Method

Method	Value	Duration	Valuation
OECD 301: Light Biodegradability			
100% OECD 301F: Manometric 87.8%; GLP		12 Day (s)	Experimental value
Respiration test		28 Day (s)	Read-across

Colophonium

Biological degradability of water

Method	Value	Duration	Valuation
OECD 301D: Closed Bottle Test 71%; GLP		28 Day (s)	Experimental value

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Biological degradability of water

Method	Value	Duration	Valuation
OECD 301F: Manometric	98%	28 Day (s)	Experimental value
Respiration test			

Ethylbenzol

Biological degradability of water

Method	Value	Duration	Valuation
ISO 14593	70 - 80%; GLP	28 Day (s)	Experimental value

Phototransformation Air (DT50 Air)

Method	Value	Conc. OH-Radical	Valuation
		500000 / cm ³	

Half-life Boden (t1 / 2 Boden)

Method	Value	Primary construction / mineralization	Valuation
	3-10 Day (s)		Literature study

Half-life air (t1 / 2 air)

Method	Value	Primary construction / mineralization	Valuation
	2.3 Tag (s)		

Conclusion

Does not contain biodegradable component (s)

12.3 Bioaccumulative potential:

Soudal Carjoint

Log Kow

Method	Note	Value	Temperature	Valuation
	Not applicable (mixture)			

Soudal Carjoint

Toluene

BCF Fish

Parameter	Method	Value	Duration	Species	Valuation
BCF		90	72 Stdn	Leuciscus idus	Experimental value

Log Kow

Method	Note	Value	Temperature	Valuation
Other		2.73	20 ° C	Experimental value

Butanone

Log Kow

Method	Note	Value	Temperature	Valuation
OECD 117		0.3	40 ° C	Experimental value

Zinc oxide

Log Kow

Method	Note	Value	Temperature	Valuation
		1.53		Worth to see

2,6-Di-tert-butyl-p-cresol

BCF Fish

Parameter	Method	Value	Duration	Species	Valuation
BCF	OECD 305	230 - 2500	56 Tag (s)	Cyprinus carpio	Experimental value

Log Kow

Method	Note	Value	Temperature	Valuation
		5.1		Experimental value

Xylol

BCF Fish

Parameter	Method	Value	Duration	Species	Valuation
BCF		7 - 26	8 week (s)	Oncorhynchus mykiss	Experimental value

Log Kow

Method	Note	Value	Temperature	Valuation
		3.2	20 ° C	Analogy conclusion

Colophonium

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Valuation
BCF	BCFBAF v3.00	56.2			QSAR

Log Kow

Method	Note	Value	Temperature	Valuation
OECD 117		1.9		Experimental value

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Log Kow

Method	Note	Value	Temperature	Valuation
		> 3		

Ethylbenzol

BCF Fish

Parameter	Method	Value	Duration	Species	Valuation
BCF	Other	1	6 week (s)	Oncorhynchus kisutch	Literature study
		15 - 79		Carassius auratus	Literature study

BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Valuation
BCF		4.68		Lamellibranchiata	Literature study

Log Kow

Method	Note	Value	Temperature	Valuation
EU Method A.8		3.6	20 ° C	Experimental value

Conclusion

Contains Bioaccumulative Component (s)

12.4 Mobility in the soil:

Butanone

(log) Koc

Parameter	Method	Value	Valuation
Koc		34	Calculation value

Volatility (Henry Constant H)

Value	Method	Temperature	Note	Valuation
1.06 Pa.m ³ / mol				

Zinc oxide

(log) Koc

Parameter	Method	Value	Valuation
log Koc		2.2	Literature study

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

2,6-Di-tert-butyl-p-cresol (log)

Koc

Parameter	Method	Value	Valuation
Koc	PCKOCWIN v1.66	23030	Calculation value
log Koc	PCKOCWIN v1.66	4,362	Calculation value

Volatility (Henry Constant H)

Value	Method	Temperature	Note	Valuation
8.92E-5 atm m³ / mol	SRC HENRYWIN v3.10			Calculation value

Percentage distribution

Method	Fraction part air	Fragment Biota Fragment Sediment	Fractional part Soil	Fractional part Water	determination
Mackay Level III	0.37%		30.4%	58.5%	10.7% Calculation value

Colophonium

(log) Koc

Parameter	Method	Value	Valuation
log Koc	SRC PCKOCWIN v2.0	0.8759	QSAR

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Percentage distribution

Method	Fraction part air	Fragment Biota Fragment Sediment	Fractional part Soil	Fractional part Water	determination
Mackay Level III 96%		0%	1.8%	0.55%	1.4% Calculation value

Ethylbenzol

(log) Koc

Parameter	Method	Value	Valuation
log Koc	PCKOCWIN v1.66	2.71	Calculation value

Volatility (Henry Constant H)

Value	Method	Temperature	Note	Valuation
0.00843 atm m³ / mol		25 ° C		Experimental value

Percentage distribution

Method	Fraction part air	Fragment Biota Fragment Sediment	Fractional part Soil	Fractional part Water	determination
Mackay Level I	99.45%		0.05%	0.05%	0.45% QSAR

Conclusion

- Contains component (s) that adsorb (adsorb) to the soil
- Contains ingredient (s) with potential for soil mobility

12.5 Results of PBT and vPvB assessment:

Due to insufficient information, no statement can be made as to whether the component (s) meet the criteria for PBT and vPvB Annex XIII to Regulation (EC) No 1907/2006. 1907/2006 fulfilled resp. fulfill.

12.6 Other adverse effects: Soudal Carjoint

Greenhouse Potential (GWP)

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

Ozone depletion potential (ODP)

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

Toluene Greenhouse Potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Groundwater

Groundwater hardening

Butanone

Greenhouse potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Groundwater

Groundwater hardening

Zinc

oxide greenhouse potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Groundwater

Groundwater hardening

Soudal Carjoint

2,6-Di-tert-butyl-p-cresol

Greenhouse potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Xylol

Greenhouse Potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Groundwater

Groundwater hardening

Colophonium

Greenhouse Potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Groundwater

Groundwater hardening

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclic compounds

Greenhouse potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

Ethylbenzole

Greenhouse Potential (GWP)

No entry in the list of fluorinated greenhouse gases (Regulation (EC) No 517/2014)

SECTION 13: Disposal considerations

The information contained in this section is a general description. If applicable and available, the exposure scenarios are included in the appendix. You must always use related exposure scenarios that have their identified uses

13.1 Procedure for waste treatment:

13.1.1 Waste regulations

Waste code (Directive 2008/98 / EC, Decision 2000/0532 / EC).

08 04 09 * (HZVA waste from adhesives and sealants (including water-repellent materials): adhesives and sealants containing organic solvents or other hazardous substances). Depending on the industry branch and the production process, other waste codes may also be applicable. Hazardous waste according to Directive 2008/98 / EC.

13.1.2 Disposal considerations

Recycling / Reusing. Dispose of waste in accordance with local and / or national regulations. Hazardous waste should not be mixed with other waste. Different types of hazardous waste should not be mixed, as this can lead to contamination or can lead to problems in the further processing of the waste. Hazardous waste must be handled responsibly. All facilities that store, transport or handle hazardous waste must take the necessary measures to avoid the risk of contamination or damage to humans or animals. Not in the sewers or the environment.

13.1.3 Packaging

Waste code containers (Directive 2008/98 / EC).

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

13.1.4 Disposal of contaminated areas:

Completely dispose of containers

SECTION 14: Transport information

Street (ADR)

14.1 UN number:

UN number	1133
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14.2 Ordnungsgem % fle UN Shipping designation:

Ordnungsgem % fle Shipping designation 14.3	Adhesives, Special Requirement 640H
---------------------------------------------	-------------------------------------

Transport hazard classes: Number for identification of

the hazard class	33
	3
Classification code	F1

14.4 Packing group: Packing

group Hazard labels	III
	3

14.5 Environmental hazards:

Indicators of environmentally harmful substances	no
--------------------------------------------------	----

Processing basis: ATP4

Date of creation: 2004-01-08

Date of preparation: 2015-02-14

Processing number: 0500

Product number: 40318

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Soudal Carjoint

14.6 Special precautions to be taken by the user:

Special regulations	640H
Limited quantities	Composite packaging: up to 5 liters per inner packaging for liquid substances. A shipping item must not weigh more than 30 kg. (Gross mass)
Specific information	Viscous liquid with a flash point below 23 ° C, which the conditions of the ADR listed in 2.2.3.1.4

Railway (RID)

14.1 UN number:

UN number	1133
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14.2 Ordnungsgem. % file UN Shipping designation:

Ordnungsgem. % file Shipping designation 14.3	Adhesives, Special Requirement 640H
-----------------------------------------------	-------------------------------------

Transport hazard classes: Number for identification of the

hazard class	33
	3
Classification code 14.4	F1

Packing group: Packing group

Hazard statements 14.5	III
Environmental hazards:	3

Characteristics for environmentally hazardous	no
-----------------------------------------------	----

substances 14.6 Special precautions to be taken by the user:

Special regulations	640H
Limited quantities	Composite packaging: up to 5 liters per inner packaging for liquid substances. A shipping item must not weigh more than 30 kg. (Gross mass)
Specific information	Viscous liquid with a flash point below 23 ° C, which meets the conditions of the RID

Inland waterways (ADN)

14.1 UN number:

UN number	1133
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14.2 Ordnungsgem. % file UN Shipping designation:

Ordnungsgem. % file Shipping designation 14.3	Adhesives, Special Requirement 640H
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Transport hazard classes: Class Classification code 14.4

Packing group: Packing group Hazard label 14.5	3
Environmental hazards:	F1

	III
	3

Indicators of environmentally harmful substances	no
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14.6 Special precautions to be taken by the user:

Special regulations	640H
Limited quantities	Composite packaging: up to 5 liters per inner packaging for liquid substances. A shipping item must not weigh more than 30 kg. (Gross mass)
Specific information	Viscous liquid with a flash point below 23 ° C, which the conditions of the DNA listed in 2.2.3.1.4

See (IMDG / IMSBC)

14.1 UN number:

UN number	1133
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14.2 Ordnungsgem. % file UN Shipping Designation:

Ordnungsgem. % file Shipping Designation 14.3	Adhesives
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Transport Hazard Classes: Class

	3
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14.4 Packing group: Packing

group Hazard statements	III
	3

14.5 Environmental hazards:

Marine pollutant	-
characteristics of environmentally hazardous substances	no

14.6 Special precautions to be taken by the user:

Special regulations	223
Special regulations	955
Limited quantities	Composite packaging: up to 5 liters per inner packaging for liquid substances. A shipping item must not weigh more than 30 kg. (Gross mass)

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Specific information	Viscous liquid with a flash point below 23 ° C which meets the conditions of the IMDG Code in 2.3.2.3 14.7 Mass Goods Promotion
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Annex II of the MARPOL Agreement 73/78 and the IBC Code:

Annex II of MARPOL 73/78 Not applicable, based on the foregoing information	
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Air (ICAO-TI / IATA-DGR)

14.1 UN number:

UN number	1133
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14.2 Ordnungsgem % fle UN Shipping designation:

Ordnungsgem % fle Shipping designation 14.3	Adhesives
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Transport hazard classes: Class 14.4 Packing group:

Packing group Hazard label 14.5 Environmental	3
-----------------------------------------------	---

hazards:

	III
	3

Characteristics for environmentally hazardous substances 14.6 Special precautions to be taken by the user:

Special regulations	A3
Passenger and cargo aircraft: Limited quantities: maximum	10 L
Total quantity per package	
Specific information	Viscous liquid with a flash point below 23 ° C, which meets ICAO requirements in 3.3.3.1

SECTION 15: Legislation

15.1 Safety, health and environmental protection regulations / Specific legislation concerning the substance or mixture: European legislation:

FOV Salary Directive 2010/75 / EU

FOV content	Note
40%	

REACH Appendix XVII - Restriction

Contains component (s) which comply with the restrictions set out in Annex XVII to Regulation (EC) No 882/2004. 1907/2006: Subject to restrictions on the manufacture, transport and use of certain dangerous substances, mixtures and products.

Designation of the substance, groups of substances or preparations Liquid	Restrictions
<ul style="list-style-type: none"> Toluene Butanone Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic compounds Ethylbenzol 	<p>substances or mixtures which are not used according to the 1st Directive Directive 1999/45 / EC as dangerous in decorative articles intended for the production of light (the criteria for one of the following in phase change), eg in mood lamps and ashtrays; Annex I to Regulation (EC) No 609/2008 applies to products of the categories specified in the table below. 2. Products that are placed on the market if they contain a coloring agent for tax reasons or the substance provided that 1. public 2.4.4. Categories set out in 2.15. Types can be used and b) Hazard classes 3.1 to 3.6, 3.7. Information on the substance and its basic information, classified as dangerous, shall be provided to the general public decorative decorative lamps (EN 319 and 3.10; c) Hazard class 4.1; 14059) .5. Undamaged by the implementation of other Community provisions on the d) Hazard class 5.1.</p> <p>Staging, packaging and labeling of dangerous substances and mixtures ensure that suppliers supply the following requirements before the shipment are met: , legible and indelibly the following inscriptions: C) Lamps filled with this liquid are easy for children to keep and as of December 1, 2010 life-threatening damage to the lungs. b) Labeled with R65 or H304 and for the purpose of giving to the general public liquid grilling changes, as of December 1, 2010, read and unmistakably bear the following inscription: Digestion of the lungs. c) Lamps and grilles marked with R65 or H304 and designated for public use by the general public shall be unpacked from 1 December 2010 in black opaque containers with a maximum quantity of 1 liter. Bis sp % testens 1.</p> <p>In June 2014, the Commission asked the European Chemicals Agency to prepare a dossier pursuant to Article 69 of this Regulation, in which case a ban of R65 or H304, which may have been imposed and for the public to be required to make liquid barbecue changes and fuels for decorative lamps will be released.7. Natural or legal persons who first bring into circulation lamps marked with R65 or H304 and liquid grill changes shall notify the relevant authority of the relevant authority until 1 December 2011 and thereafter annually.</p>

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		Member State Data on alternatives to R5 or H304 labeled lamps and liquid grill changes. Member States shall make such data available to the Commission. 1. Substances which, as flammable gases of the 1. May not be used as a substance or as a mixture in aerosol packs intended for entertainment and decoration purposes (e.g. for lighting effects in general or for B. water Gaseous gases, the non-flammable noises, cat excrements, as self-igniting (pyrophore) solids of homotri Category 1 is also as a substance, Part 2 of the Regulation, and for the Regulation purposes, to the end of the Regulation, the packaging and labeling of substances is the responsibility of the manufacturer and before
<ul style="list-style-type: none"> • Toluene • Butanone Xylol • Hydrocarbons, C7, n-alkanes, Isoalkanes, cyclic compounds Ethylbenzol 		<p>2. For the purposes of the Regulation, the following substances are excluded from the scope of the Regulation:</p> <p>1. Substances which, as flammable gases of the 1. May not be used as a substance or as a mixture in aerosol packs intended for entertainment and decoration purposes (e.g. for lighting effects in general or for B. water Gaseous gases, the non-flammable noises, cat excrements, as self-igniting (pyrophore) solids of homotri Category 1 is also as a substance, Part 2 of the Regulation, and for the Regulation purposes, to the end of the Regulation, the packaging and labeling of substances is the responsibility of the manufacturer and before</p> <p>3. By way of derogation from paragraphs 1 and 2, the aerosol packagings referred to in Article 8 paragraph 1 of Directive 75/324 / EEC shall not apply.4. The aerosol packs mentioned in paragraphs 1 and 2 may only be put into circulation if they meet the requirements listed there.</p>
<ul style="list-style-type: none"> • Toluene 	Toluene	Do not use as a substance or in mixtures in concentrations of $\geq 0.1\%$ by weight for the Submission to the general public of specified adhesives and dye sprays may be put into circulation or used.

National legislation Germany

SoudaL Carioint

WGK	2; Degradation of water-soluble on a component basis according to the Administration Directive for Water-Resistant Substances (VwVwS) of 27 July 2005 (Appendix 4)
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Toluene

Pregnancy group	C
MAK 8-hour average ppm	Toluene; 50 ppm
MAK 8-hour mean mg / m³	Toluene; 190 mg / m³
TA-Luft	5.2.5; IN

Butanone

Pregnancy group	C
MAK 8-hour average ppm	2-Butanone; 200 ppm
MAK 8-hour mean mg / m³	2-Butanone; 600 mg / m³
TA-Luft	5.2.5

Zinc oxide

Pregnancy group	C
Pregnancy group	C
MAK 8-hour mean mg / m ³	Zinc and its inorganic compounds (alveolar fraction); 0.1 mg / ml; measured as an alveolar fraction (cf. section Vd) p. 191)
	Zinc and its inorganic compounds (inhalable fraction); 2 mg / m ³ ; measured as an integral fraction (cf. Abschn. Vd) S. 191)
TA-Luft	5.2.1

2 6-Di-tert-butyl-p-cresol

MAK - Carcinogenic Category	4
Pregnancy group	C
MAK 8-hour mean mg / m³	Butylhydroxytoluol (BHT); 10 mg / m³; measured as an integral fraction (cf. section Vd) p. 191)
TA-Luft	5.2.5: IN

Xylol

TA-Luft	5.2.5; IN
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Colophonium

TA-Luft	5.2.1
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Ethylbenzol

MAK - Carcinogenic Category	4
Pregnancy group	C
MAK 8-hour average ppm	Ethylbenzol; 20 ppm
MAK 8-hour average mg / m³	Ethylbenzol; 88 mg / m³
TA-Luft	5.2.5: IN

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National legislation Belgium

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No data available

Other relevant data

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No data available

Toluene

TLV - Carcinogen	Toluene; A4
IARC classification	3; Toluene

2,6-Di-tert-butyl-p-cresol

TLV - Carcinogen	Butylated hydroxytoluene (BHT); A4
IARC classification	3; Butylated hydroxytoluene (bht)

Xylol

IARC classification	3; Xylenes
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Ethylbenzol

TLV - Carcinogen	Ethyl benzene; A3
IARC classification	2B; Ethylbenzene

15.2 Fabric safety assessment:

No fabric safety assessment required.

SECTION 16: Other information

Full words of all R-phrases listed under points 2 and 3:

R10 Inflammable
R20 Health damage if inhaled
R20 / 21 Harmful by inhalation and in contact with skin
R36 Irritating to eyes
R38 Irritating to skin
R43 Sensitization by skin contact possible
R48 / 20 Harmful: Danger of serious damage to health by prolonged exposure through inhalation
R50 Very toxic to aquatic organisms
R51 Toxic to aquatic organisms
R52 Harmful to aquatic organisms
R53 May have long-term harmful effects in some people
R63 May cause harm to the unborn child
R65 Harmful: may cause lung damage if swallowed
R66 Repeated exposure may cause skin irritation or cracking
R67 Vapors may cause drowsiness and drowsiness

Full words of all H-phrases listed under points 2 and 3:

H225 Liquid and vapor highly flammable.
H226 Liquid and vapor flammable.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H332 Health damage by inhalation.
H336 May cause drowsiness and drowsiness.
H361d Presumably can harm the baby in the womb.
H373 May damage the ears (hearing damage) during prolonged or repeated exposure.
H373 May damage the organs if inhaled during prolonged or repeated exposure.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic organisms, has a long lasting effect.
H411 Toxic to aquatic organisms, has a long-term effect.
H412 Harmful to aquatic organisms, has a long-term effect.
(*) = SELFSTEINSTUFUNG VON BIG
PBT substances = persistent, bioaccumulative and toxic substances
DSD Dangerous Substance Directive - Guideline on Hazardous Substances
DPD Dangerous Preparation Directive - Guideline on the Dangerous Preparations
CLP (EU-GHS) Classification, labeling and packaging (Globally Harmonized System in Europe)

M-Factor

2,6-Di-tert-butyl-p-cresol	1	Acute	BIG
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Specific concentration limits DSD

Xylol	C 12.5%	Xn; R20 / 21	DSD Appendix VI (ATP 0)
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All information contained in this safety data sheet is based on the data and samples provided by BIG. The information follows determine knowledge and consciences and correspond to the state of knowledge at the time of the creation of the safety data sheet. The safety data sheet provides instructions on how to safely handle, use, consume, store, transport and dispose of the substances / preparations / mixtures listed under point 1. At a given time, new safety data sheets will be created, by

Processing basis: ATP4

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