

SAFETY DATA SHEET

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

SOUDAL THIXOTROPIC CONTACT ADHESIVE

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

1.1. Product identifier

: SOUDAL THIXOTROPIC CONTACT ADHESIVE Product name

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

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

2 +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

₼ +32 14 42 65 14 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.
Skin Irrit.	category 2	H315: Causes skin irritation.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
STOT SE	category 3	H336: May cause drowsiness or dizziness.
Aquatic Chronic	category 2	H411: Toxic to aquatic life with long lasting effects.

2.2. Label elements







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

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•	-+-+		-+-

H-statements

Highly flammable liquid and vapour.

H225 H315

Causes skin irritation.

H319 H336 Causes serious eve irritation. May cause drowsiness or dizziness.

H411

Toxic to aquatic life with long lasting effects.

P-statements

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

P102 Keep out of reach of children.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210

P280 Wear protective gloves, protective clothing and eye protection/face protection.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be © BIG vzw

Reason for revision: 3.2 Revision number: 0306

Publication date: 2007-05-09 Date of revision: 2019-10-11

Product number: 45108

P271 Use only outdoors or in a well-ventilated area.
P264 Wash hands thoroughly after handling.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Supplemental information

EUH208 Contains: rosin. May produce an allergic reaction.

- This product is not to be used under conditions of poor ventilation.

- This product is not to be used for carpet laying.

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

Name REACH Registration No		CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
acetone 01-2119471330-49		67-64-1 200-662-2		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
cyclohexane 01-2119463273-41		110-82-7 203-806-2		Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
ethyl acetate 01-2119475103-46		141-78-6 205-500-4		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
butanone 01-2119457290-43		78-93-3 201-159-0		Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
zinc oxide 01-2119463881-32		1314-13-2 215-222-5		Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(17)(1)(2)	Constituent
2,6-di-tert-butyl-p-cresol 01-2119480433-40		128-37-0 204-881-4		Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)	Constituent
colophony 01-2119480418-32		8050-09-7 232-475-7	0.1% <c<1%< td=""><td>Skin Sens. 1; H317</td><td>(1)(2)</td><td>Constituent</td></c<1%<>	Skin Sens. 1; H317	(1)(2)	Constituent
hydrocarbons, C6-C7, n-alkanes 5% n-hexane 01-2119475514-35	, isoalkanes, cyclics, <			Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	Constituent
reaction mass of 2,2' Methylene butylphenol), 4-tert-butyl-2,6-b hydroxyphenyl)methyl]phenol a methylenebis{4-tert-butyl-6-[(5 hydroxyphenyl)methyl]phenol}	is[(5-tert-butyl-2- and 2,2'-	25085-50-1 472-160-3		Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	(1)	Constituent

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General:

Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

After inhalation:

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

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⁽²⁾ Substance with a Community workplace exposure limit

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

⁽¹⁷⁾ This component is chemically bound and cannot be released

After skin contact:

Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents without medical advice. Take victim to a doctor if irritation persists.

After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply (chemical) neutralizing agents without medical advice. Take victim to an ophthalmologist if irritation persists.

After ingestion:

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Do not apply (chemical) neutralizing agents without medical advice. Do not give milk/oil to drink. Do not induce vomiting. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

EXPOSURE TO HIGH CONCENTRATIONS: Feeling of weakness. Irritation of the respiratory tract. Nausea. Vomiting. Headache. Central nervous system depression. Dizziness. Narcosis. Excited/restless. Drunkenness. Disturbed motor response. Respiratory difficulties. Disturbances of consciousness. After skin contact:

Tingling/irritation of the skin.

After eye contact:

Irritation of the eye tissue.

After ingestion:

Dry/sore throat. Risk of aspiration pneumonia. Gastrointestinal complaints. Central nervous system depression. Symptoms similar to those listed under inhalation.

4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1. Extinguishing media

5.1.1 Suitable extinguishing media:

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

Major fire: Class B foam (alcohol-resistant), Water spray if puddle cannot expand.

5.1.2 Unsuitable extinguishing media:

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

Major fire: Water; risk of puddle expansion.

5.2. Special hazards arising from the substance or mixture

On heating/burning: release of carbon monoxide - carbon dioxide.

5.3. Advice for firefighters

5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Do not move the load if exposed to heat. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

5.3.2 Special protective equipment for fire-fighters:

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective goggles. Head/neck protection. Protective clothing

Suitable protective clothing

See heading 8.2

6.2. Environmental precautions

Contain released product. Dam up the liquid 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

Take up liquid spill into a non combustible material e.g.: sand, earth, vermiculite. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

6.4. Reference to other sections

See heading 13.

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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. Insufficient ventilation: take precautions against electrostatic charges. Observe normal hygiene standards. Remove contaminated clothing immediately. Do not discharge the waste into the drain. Keep container tightly closed.

7.2. Conditions for safe storage, including any incompatibilities

7.2.1 Safe storage requirements:

Store in a cool area. Ventilation at floor level. Fireproof storeroom. Keep only in the original container. Meet the legal requirements. Max. storage time: 18 month(s).

7.2.2 Keep away from:

Heat sources, ignition sources, (strong) acids, (strong) bases.

7.2.3 Suitable packaging material:

Tin.

7.2.4 Non suitable packaging material:

No data available

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU			
Acetone		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/m ³
Butanone		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	600 mg/m³
		Short time value (Indicative occupational exposure limit value)	300 ppm
		Short time value (Indicative occupational exposure limit value)	900 mg/m ³
Cyclohexane		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	700 mg/m ³
thyl acetate		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	734 mg/m³
		Short time value (Indicative occupational exposure limit value)	400 ppm

		Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	734 mg/m³
		Short time value (Indicative occupational exposure limit value)	400 ppm
Belgium			
2,6-Di-tert-butyl-p-crésol	(vapeur et aérosol)	Time-weighted average exposure limit 8 h	2 mg/m³
2-Butanone		Time-weighted average exposure limit 8 h	200 ppm
		Time-weighted average exposure limit 8 h	600 mg/m³
		Short time value	300 ppm
		Short time value	900 mg/m³
Acétate d'éthyle		Time-weighted average exposure limit 8 h	200 ppm
		Time-weighted average exposure limit 8 h	734 mg/m³
		Short time value	400 ppm
		Short time value	1468 mg/m³
Acétone		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
Cyclohexane		Time-weighted average exposure limit 8 h	100 ppm
		Time-weighted average exposure limit 8 h	350 mg/m ³
Zinc (oxyde de) (fraction a	alvéolaire)	Time-weighted average exposure limit 8 h	2 mg/m³
		Short time value	10 mg/m³

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2-Butanon		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	197 ppm
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	590 mg/m
		Short time value (Public occupational exposure limit value)	300 ppm
		Short time value (Public occupational exposure limit value)	900 mg/m
Aceton		Time-weighted average exposure limit 8 h (Public occupational	501 ppm
		exposure limit value)	''
		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	1210 mg/ı
		Short time value (Public occupational exposure limit value)	1002 ppm
		Short time value (Public occupational exposure limit value)	2420 mg/r
Cyclohexaan		Time-weighted average exposure limit 8 h (Public occupational	200 ppm
		exposure limit value) Time-weighted average exposure limit 8 h (Public occupational	700 mg/m
		exposure limit value)	
		Short time value (Public occupational exposure limit value)	400 ppm
Cth. danatant		Short time value (Public occupational exposure limit value)	1400 mg/r
Ethylacetaat		Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	734 mg/m
		Short time value (Public occupational exposure limit value)	1468 mg/r
France			
2,6-Di-tert-butyl-p-crésol		Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 mg/m ³
Acétate d'éthyle		Time-weighted average exposure limit 8 h (VL: Valeur non	400 ppm
		réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non	1400 mg/r
Acétone		réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	500 ppm
Acctoric		contraignante)	
		Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1210 mg/r
		Short time value (VRC: Valeur réglementaire contraignante)	1000 ppm
		Short time value (VKC: Valeur regiementaire contraignante)	2420 mg/r
Colophane (produits de d		Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non	2420 mg/r 0.1 mg/m ³
	lécomposition des baguettes de	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	
	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non	
soudure, exprimés en ald	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	0.1 mg/m ⁵ 200 ppm
soudure, exprimés en ald	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	0.1 mg/m ³ 200 ppm 700 mg/m
soudure, exprimés en ald	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm
soudure, exprimés en ald	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/r
soudure, exprimés en ald Cyclohexane	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm
soudure, exprimés en ald Cyclohexane	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm
soudure, exprimés en ald Cyclohexane	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm
soudure, exprimés en ald Cyclohexane	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm 600 mg/m 300 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées)	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm 600 mg/m 300 ppm 900 mg/m
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées)	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m ³
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m ³
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m ³ 10 mg/m ³
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm 900 mg/m ³ 10 mg/m ³ 10 mg/m ³
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m ³ 10 mg/m ³ 500 ppm 1200 mg/m
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m³ 10 mg/m³ 500 ppm 1200 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m³ 10 mg/m³ 500 ppm 1200 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m ³ 10 mg/m ³ 10 mg/m ³ 500 ppm 1200 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 200 ppm 1200 ppm 1200 mg/m 200 ppm 700 mg/m
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 200 ppm 1200 mg/m 200 ppm 700 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan Ethylacetat	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m ³ 10 mg/m ³ 10 mg/m ³ 10 mg/m ³ 200 ppm 1200 mg/m 200 ppm 700 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan Ethylacetat	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 5 mg/m ³ 10 mg/m ³ 10 mg/m ³ 500 ppm 1200 mg/m 200 ppm 700 mg/m 200 ppm 700 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ² 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 5 mg/m ³ 10 mg/m ³ 10 mg/m ³ 500 ppm 1200 mg/m 200 ppm 700 mg/m 200 ppm 700 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan Ethylacetat	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m³ 200 ppm 700 mg/m 375 ppm 1300 mg/m 200 ppm 600 mg/m 5 mg/m³ 10 mg/m³ 10 mg/m³ 500 ppm 1200 mg/m 200 ppm 200 ppm 700 mg/m 200 ppm 700 mg/m 200 ppm
soudure, exprimés en ald Cyclohexane Méthyléthylcétone Zinc (oxyde de, fumées) Zinc (oxyde de, poussière Germany 2,6-Di-tert-butyl-p-kresol Aceton Butanon Cyclohexan Ethylacetat	lécomposition des baguettes de léhyde formique)	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VL: Valeur non réglementaire indicative) Short time value (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative) Time-weighted average exposure limit 8 h (TRGS 900) Time-weighted average exposure limit 8 h (TRGS 900)	0.1 mg/m ³ 200 ppm 700 mg/m 375 ppm 1300 mg/r 200 ppm 600 mg/m 300 ppm 900 mg/m 5 mg/m ³ 10 mg/m ³ 10 mg/m ³ 200 ppm 1200 ppm 1200 mg/r 200 ppm 600 mg/m 700 mg/m

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Acetone			Time-weighted average ex (EH40/2005))	posure limit 8 h (Work	place exposure limit	500 ppm
			Time-weighted average ex (EH40/2005))	posure limit 8 h (Work	place exposure limit	1210 mg/m³
			Short time value (Workpla	re exposure limit (FH40)/2005))	1500 ppm
			Short time value (Workplace)			3620 mg/m ³
Butan-2-one (methyl et	nyl ketone)		Time-weighted average ex	· · · · · · · · · · · · · · · · · · ·		200 ppm
			(EH40/2005)) Time-weighted average ex	posure limit 8 h (Work	place exposure limit	600 mg/m ³
			(EH40/2005)) Short time value (Workplad	re exposure limit (FHAC	1/2005))	300 ppm
			Short time value (Workplace			899 mg/m³
Cyclohexane			Time-weighted average ex (EH40/2005))		. "	100 ppm
			Time-weighted average ex (EH40/2005))	posure limit 8 h (Workp	place exposure limit	350 mg/m ³
			Short time value (Workplace	ce exposure limit (EH40)/2005))	300 ppm
			Short time value (Workplac			1050 mg/m ³
Ethyl acetate			Time-weighted average ex	posure limit 8 h (Work	olace exposure limit	200 ppm
			(EH40/2005))			
			Short time value (Workplad			400 ppm
Rosin-based solder flux	tume		Time-weighted average ex (EH40/2005))			0.05 mg/m ³
			Short time value (Workplad	ce exposure limit (EH40	0/2005))	0.15 mg/m ³
USA (TLV-ACGIH)						_
Acetone			Time-weighted average ex	•	Adopted Value)	250 ppm
			Short time value (TLV - Add			500 ppm
Butylated hydroxytolue	ne (BHT)		Time-weighted average ex			2 mg/m³ (IFV)
Cyclohexane			Time-weighted average ex			100 ppm
Ethyl acetate	EK)		Time-weighted average ex			400 ppm
Methyl ethyl ketone (M	čK)		Time-weighted average ex Short time value (TLV - Add		Adopted Value)	200 ppm
Zinc oxide			Time-weighted average ex		Adopted Value	300 ppm 2 mg/m³ (R)
ZITIC OXIGE			Short time value (TLV - Add		Adopted value)	10 mg/m³ (R)
If limit values are applications Germany	ible alla avallable	e triese will be listed be	now.			
Aceton (Aceton)		Urin: expositionsende	, bzw. schichtende	80 mg/l	11/2012 Ständige Se	
					Prüfung gesundheit: Arbeitsstoffe der DF	
Butanon (2-Butanon; Et	hylmethylketon)	Urin: expositionsende	, bzw. schichtende	2 mg/l	05/2015 Ständige Se	enatskommissio
(Butanon (2-Butanon))		·			Prüfung gesundheits Arbeitsstoffe der DF	sschädlicher
Cyclohexan (1,2-Cyclohe	exandiol (nach	Urin: bei langzeitexpo	sition: am schichtende nac	h 150 mg/g Kreatinin	11/2012 Ständige Se	
Hydrolyse))		mehreren vorangegar	•		Prüfung gesundheits	
		expositionsende, bzw	. schichtende		Arbeitsstoffe der DF	G
UK		I			T	
Butan-2-one (butan-2-o	ne)	Urine: post shift		70 μmol/L		
USA (BEI-ACGIH)						
Acetone (Acetone)		Urine: end of shift		25 mg/L		
Methyl ethyl ketone (M	EK)	urine: end of shift		2 mg/L	1	
.1.2 Sampling methods			T	Ni is a se		
Product name	bul othul katana)		Test	Number		
2-Butanone (MEK) (Met 2-Butanone (Methyl eth			NIOSH OSHA	2500 84		
2-Butanone (organic and	· · · · · · · · · · · · · · · · · · ·	by Extractive FTIR)	NIOSH	3800	7	
2-Butanone (Volatile Or			NIOSH	2549		
2-Butanone	,, ,, ,		OSHA	1004		
2-Butanone			OSHA	13		
Acetone (ketones 1)			NIOSH	1300		
Acetone (ketones I)			NIOSH	2555		
Acetone (organic and in	organic gases by	Extractive FTIR)	NIOSH	3800		
Acetone (Volatile Organ			NIOSH	2549		
ACETONE and METHYL		urine	NIOSH	8319		
Acetone			OSHA	69		
or revision: 3.2				Publication date: 2	007-05-09	
				Data of ravision, 20	10 10 11	

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Date of revision: 2019-10-11

Product name		Test	Number
Cyclohexane (Hydrocarbons, BP36 to 126C)		NIOSH	1500
Cyclohexane		OSHA	7
Di-tert-butyl-p-cresol		OSHA	2108
Ethyl acetate (Volatile O	rganic compounds)	NIOSH	2549
Ethyl Acetate		NIOSH	1457
Ethyl Acetate		OSHA	7
MEK		NIOSH	8002
Methyl Ethyl Ketone (ke	tones I)	NIOSH	2555
Methyl Ethyl Ketone		OSHA	16
Zinc (Elements)		NIOSH	7300
Zinc (Zn)		NIOSH	7302
Zinc (Zn)		NIOSH	7304
Zinc Oxide		NIOSH	7030
Zinc Oxide		NIOSH	7502
Zinc Oxide		OSHA	ID 121
Zinc Oxide		OSHA	ID 143
3 Applicable limit value	when using the substance or mix	vture as intended	

8.1.3 Applicable limit values <mark>when using the substance or mixture</mark> as intended

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

8.1.4 Threshold values

DNEL/DMEL - Workers

Effect level (DNEL/DMEL)		Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	1210 mg/m³	
		Acute local effects inhalation	2420 mg/m³	
		Long-term systemic effects dermal	186 mg/kg bw/day	

cyclohexane

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

ethyl acetate

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	734 mg/m³	
	Acute systemic effects inhalation	1468 mg/m³	
	Long-term local effects inhalation	734 mg/m³	
	Acute local effects inhalation	1468 mg/m³	
	Long-term systemic effects dermal	63 mg/kg bw/day	

<u>butanone</u>

Effect level (DINEL/DIVIEL)	rype	value	Remark
DNEL	Long-term systemic effects inhalation	600 mg/m³	
	Long-term systemic effects dermal	1161 mg/kg bw/day	
zine ovido			

zinc oxide

E	ffect level (DNEL/DM	EL)	Туре	Value	Remark
	NEL		Long-term systemic effects inhalation	5 mg/m³	
			Long-term local effects inhalation	0.5 mg/m ³	
			Long-term systemic effects dermal	83 mg/kg bw/day	

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

Effect level (DNEL/DM	EL)	Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	3.5 mg/m³	
		Long-term systemic effects dermal	0.5 mg/kg bw/day	

colophony

Effect level (DNEL/DIVI	EL)	Type	value	Remark
DNEL		Long-term local effects inhalation	10 mg/m³	
		L <mark>ong-term systemic effe</mark> cts dermal	2.131 mg/kg bw/day	

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

Effect level (DNEL/DM	IEL)	Туре	Value	Remark
DNEL		Long-term systemic effects inhalation	2035 mg/m³	
		Long-term systemic effects dermal	773 mg/kg bw/day	

DNEL/DMEL - General population

acetone

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	200 mg/m ³	
	Long-term systemic effects dermal	62 mg/kg bw/day	
	Long-term systemic effects oral	62 mg/kg bw/day	

Reason for revision: 3.2 Publication date: 2007-05-09
Date of revision: 2019-10-11

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Clohexane Effoct lovel (DNEL (DMEL)	Typo	Value	Domark
Effect level (DNEL/DMEL) DNEL	Type Long-term systemic effects inhalation	Value 206 mg/m³	Remark
DINLL		_	
	Acute systemic effects inhalation Long-term local effects inhalation	412 mg/m³ 206 mg/m³	
	Acute local effects inhalation	412 mg/m³	
	Long-term systemic effects dermal	1186 mg/kg bw/day	
	Long-term systemic effects oral	59.4 mg/kg bw/day	
hyl acetate	- State of the control of the contro	os. Ting no ow, day	L
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	367 mg/m³	
	Acute systemic effects inhalation	734 mg/m³	
	Long-term local effects inhalation	367 mg/m³	
	Acute local effects inhalation	734 mg/m³	
	Long-term systemic effects dermal	37 mg/kg bw/day	
	Long-term systemic effects oral	4.5 mg/kg bw/day	
<u>itanone</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	106 mg/m³	
	Long-term systemic effects dermal	412 mg/kg bw/day	
	Long-term systemic effects oral	31 mg/kg bw/day	
nc oxide	Tuno	Volvo	Domork
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2.5 mg/m³	
	Long-term systemic effects dermal	83 mg/kg bw/day	
E di tart butul a arasal	Long-term systemic effects oral	0.83 mg/kg bw/day	
6-di-tert-butyl-p-cresol Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects dermal	0.25 mg/kg bw/day	Roman
DIVLE	Long-term systemic effects inhalation	0.86 mg/m ³	
	Long-term systemic effects initiation Long-term systemic effects oral	0.25 mg/kg bw/day	
lophony	Equip retain systemic effects of all	Jo.23 mg/kg bw/day	L
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects dermal	1.065 mg/kg bw/day	
	Long-term systemic effects oral	1.065 mg/kg bw/day	
rdrocarbons, C6-C7, n-alkanes, i	isoalkanes, cyclics, < 5% n-hexane		
Effect level (DNEL/DMEL)	Туре	Value	Remark
Elloot lovol (BitLL) BiviLL)	i ypc		
DNEL	Long-term local effects inhalation	608 mg/m³	
	Long-term local effects inhalation Long-term systemic effects dermal	699 mg/kg bw/day	
DNEL	Long-term local effects inhalation	0.	
DNEL JEC	Long-term local effects inhalation Long-term systemic effects dermal	699 mg/kg bw/day	
DNEL JEC etone	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value	699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases)	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 30.4 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 30.4 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg soil dw Value	699 mg/kg bw/day 699 mg/kg bw/day	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg soil dw Value 0.207 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg soil dw Value 0.207 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Coil Colohexane Compartments Fresh water Marine water Marine water Marine water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Compartments Fresh water Marine water sediment Compartments Fresh water Marine water Marine water Marine water Marine water Aqua (intermittent releases)	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Colohexane Compartments Fresh water Marine water Marine water Marine testiment Soil Clohexane Compartments Fresh water Marine water Marine water Marine water Marine water Marine water Marine water Aqua (intermittent releases) STP Fresh water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Marine water Marine teleases) STP Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Coolectohexane Compartments Fresh water Marine water Marine water Marine teleases) STP Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Marine water sediment Marine water sediment Marine water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw	699 mg/kg bw/day 699 mg/kg bw/day Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil hyl acetate	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil hyl acetate Compartments	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water STP Fresh water Marine water Marine water sediment Marine water sediment Soil hyl acetate Compartments Fresh water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil hyl acetate Compartments Fresh water Aqua (intermittent releases)	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw Value 0.207 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water sediment Marine water sediment Marine water sediment Soil hyl acetate Compartments Fresh water Aqua (intermittent releases) Marine water Aqua (intermittent releases) Marine water	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw Value 0.207 mg/l	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Marine water Marine water Marine water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Marine water sediment Soil hyl acetate Compartments Fresh water Aqua (intermittent releases) Marine water Aqua (intermittent releases) Marine water STP	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw Value 16.68 mg/kg sediment dw 16.68 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	
DNEL JEC etone Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment Marine water sediment Soil clohexane Compartments Fresh water Marine water Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Marine water sediment Soil hyl acetate Compartments Fresh water Aqua (intermittent releases) Marine water STP Fresh water sediment STP Fresh water sediment	Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Value 10.6 mg/l 21 mg/l 1.06 mg/l 100 mg/l 30.4 mg/kg sediment dw 3.04 mg/kg sediment dw 29.5 mg/kg soil dw Value 0.207 mg/l 0.207 mg/l 0.207 mg/l 3.24 mg/l 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw Value 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 16.68 mg/kg sediment dw 3.38 mg/kg soil dw	699 mg/kg bw/day 699 mg/kg bw/day Remark Remark	

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<u>butanone</u>		
Compartments	Value	Remark
Fresh water	<mark>55.8 mg</mark> /l	
Marine water	<mark>55.8 mg/l</mark>	
Aqua (intermittent releases)	<mark>55.8 mg</mark> /l	
STP	<mark>709 mg/l</mark>	
Fresh water sediment	<mark>284.74 m</mark> g/kg sediment dw	
	<mark>284.7 mg</mark> /kg sediment dw	
Soil	22.5 mg/kg soil dw	
Food	<mark>1000 mg</mark> /kg food	
zinc oxide		

zinc oxide			
Compartments	Value	Remark	
Fresh water	20.6 μg/l		
Marine water	6.1 μg/l		
STP	100 μg/l		
Fresh water sediment	117.8 mg/kg sediment dw		
Marine water sediment	56.5 mg/kg sediment dw		
Soil	35.6 mg/kg soil dw		

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

Compartments	Value	Remark
Fresh water	<mark>0.199 μg</mark> /l	
Marine water	<mark>0.02 μg/l</mark>	
Aqua (intermittent rele <mark>ases)</mark>	<mark>1.99 μg/l</mark>	
STP	0.17 mg/l	
Fresh water sediment	<mark>99.6 μg/</mark> kg sediment dw	
Salt water	<mark>9.96 μg/</mark> kg sediment dw	
Soil	<mark>47.69 μg</mark> /kg soil dw	
Oral	8.33 mg/kg food	

colophony

Compartments	Value	Remark
Fresh water	<mark>0.002 mg</mark> /l	
Aqua (intermittent releases)	<mark>0.016 m</mark> g/l	
STP	1000 mg/l	
Fresh water sediment	<mark>0.007 mg</mark> /kg sediment dw	
Marine water sediment	<mark>0.001 mg</mark> /kg sediment dw	

8.1.5 Control banding

If applicable and available it will be listed below.

8.2. Exposure controls

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

8.2.1 Appropriate engineering controls

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

8.2.2 Individual protection measures, such as personal protective equipment

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

a) Respiratory protection:

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

b) Hand protection:

Protective gloves against chemicals (EN374).

c) Eye protection:

Protective goggles.

d) Skin protection:

Head/neck protection. Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical form	. ,	/iscous
Odour		Characteristic odour
Odour threshold	N	No data available
Colour		Colourless
Particle size	N	No data available
Explosion limits	1	L - 7.4 vol %
Flammability	ŀ	Highly flammable liquid and vapour.
Log Kow	N	Not applicable (mixture)
Dynamic viscosity	N	No data available

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Kinematic viscosity		No data available
Melting point		<-50 °C; 1013 hPa
Boiling point		<mark>60 °C - 95 °C ;</mark> 1013 hPa
Evaporation rate		No data available
Relative vapour density		No data available
Vapour pressure		240 hPa ; 20 °C
Solubility		Water ; 0.02 g/100 ml ; 20 °C
Relative density		0.86
Decomposition temperat	ure	No data available
Auto-ignition temperatur	e	<mark>260 °C; 1013</mark> hPa
Flash point		- <mark>25 °C ; 1013</mark> hPa
Explosive properties		No chemical group associated with explosive properties
Oxidising properties		No chemical group associated with oxidising properties
рН		No data available

9.2. Other information

Absolute density 860 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Precautionary measures

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

10.5. Incompatible materials

(strong) acids, (strong) bases.

10.6. Hazardous decomposition products

On heating/burning: release of carbon monoxide - carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

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Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
Oral	LC50		≥ 2000 mg/kg bw		Rat	Calculated value	
Dermal	LD50		≥ 2000 mg/kg bw		Rabbit	Calculated value	
Inhalation	LC50		≥ 5 mg/l/4h		Rat	Calculated value	
Inhalation (vapours)	ATE		5 mg/l/4h			Calculated value	
Inhalation (mist)	ATE		5 mg/l/4h			Calculated value	

Judgement of the mixture is based on test data on the mixture as a whole 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	
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	

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R	Route of exposure	Parai	meter	Method	Value	Exposure time	Species	Value determination	Remark
C	Dral	LD50		Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male / female)	Experimental value	
C	Dermal	LD50		-	> 2000 mg/kg bw		Rabbit (male / female)	Experimental value	
lı	nhalation (vapours)	LC50		Equivalent to OECD 403	> 32.88 mg/l air	4 h		Experimental value	
lı	nhalation (vapours)	LC50			> 19.07 mg/l	4 h	Rat (male / female)	Experimental value	
thvl	acetate	_		1.00					1
	Route of exposure	Parai	meter	Method	Value	Exposure time	Species	Value determination	Remark
C	Oral	LD50		Equivalent to OECD 401	10200 mg/kg bw		Rat (female)	Experimental value	
C	Dermal	LD50		24 hour cuff method	> 20000 mg/kg bw	24 h	Rabbit (male)	Experimental value	
lı	nhalation (vapours)	LC0		Equivalent to OECD 403	29.3 mg/l	4 h	Rat	Experimental value	
uta	none_			1					
R	Route of exposure	Parai	meter	Method	Value	Exposure time		Value determination	Remark
C	Oral	LD50		Equivalent to OECD 423	2193 mg/kg bw		Rat (male / female)	Read-across	
C	Dermal	LD50		Equivalent to OECD 402	> 10 ml/kg bw	24 h	Rabbit (male)	Experimental value	
lı	nhalation (vapours)							Data waiving	
	oxid <u>e</u>								
R	Route of exposure	Parai	meter	Method	Value	Exposure time		Value determination	Remark
C	Oral	LD50		Equivalent to OECD 401	> 5000 mg/kg			Experimental value	
	Permal	LD50		OECD 402	> 2000 mg/kg bw	24 h		Experimental value	
lı	nhalation (dust)	LC50		Equivalent to OECD 403	> 5.7 mg/l	4 h	Rat (male / female)	Experimental value	
	li-tert-butyl-p-cresol			.	h		la .	L	
	Route of exposure		meter	Method	Value	Exposure time		Value determination	Remark
_	Oral	LD50		OECD 401	> 6000 mg/kg bw			Experimental value	
	Dermal	LD50		OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
L	ohony	-							
	Route of exposure	Parai	meter	Method	Value	Exposure time		Value determination	Remark
C	Oral	LD50		Other	2800 mg/kg bw			Experimental value	
C	Dermal	LD50		OECD 402	> 2000 mg/kg bw	24 h	Rat (male / female)	Experimental value	
lı	nhalation							Data waiving	
ıydr	ocarbons, C6-C7, n-a	lkane	s, isoal	kanes, cyclics, < 5% n-	hexane				
R	Route of exposure	Parai	meter	Method	Value	Exposure time		Value determination	Remark
C	Oral	LD50			> 5840 mg/kg bw		Rat (male / female)		
C	Dermal	LD50			> 2800 mg/kg bw	24 week(s)	Rat (male / female)	Similar product	
lı	nhalation (vapours)	LC50			> 25.2 mg/l	4 h	Rat (male / female)	Experimental value	
	usion classified for acute to	oxicity	,						
sion	/irritation								
	.THIXOTROPIC CONT est)data on the mixi							1	
	ification is based on								
n fo	r revision: 3.2	-					Publication date: 20	007-05-09	
							Data of various 20		

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
ye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Weight of evidence	
kin	Not irritating	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
nhalation	Slightly irritating	Human observation study	20 minutes		Human	Literature	
<u>ohexane</u>							-
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
ye	Slightly irritating	Equivalent to OECD 405		1 hour	Rabbit	Experimental value	
kin	Not irrit <mark>ating</mark>	Equivalent to EU Method B.4	4 h	24; 48; 72 hours	Rabbit	Experimental value	
kin	Irritating; category 2					Annex VI	
nhalation	Irritating					Literature study	
yl acetate						<u>.</u>	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
ye	Slightly irritating	Equivalent to OECD 405		1; 24; 48; 72 hrs; 7; 14; 21 days	Rabbit	Experimental value	Single treatmer
ye	Irritating; category 2					Annex VI	
kin	Slightly irritating	Equivalent to OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value	
	is substa <mark>nce accord</mark>	ding to Annex VI is de	ebatable as it does	not correspond to the	conclusion from th	ne test	
anone Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
.cato or exposure		THOU ING	_Aposure time	Timo point	- P00103	determination	
ye	Irritating	Equivalent to OECD 405		24; 72 hours	Rabbit	Experimental value	Single exposure
ikin	Not irritating	OECD 404	4 h	4; 24; 48; 72 hours	Rabbit	Read-across	
oxide							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
ye	Not irritating	OECD 405	24 h	24; 72 hours	Rabbit	Experimental value	
ikin	Not irritating	OECD 404	24 h	24 hours	Rabbit	Experimental value	
Not applicable (in ritro test)	Not corrosive	OECD 431	3 minutes	24; 72 hours	Reconstructed human epidermis	Experimental value	
di-tert-butyl-p-cre	sol					I.	l
Route of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
ye	Not irritating	OECD 405		24; 72 hours	Rabbit	Experimental value	
kin	Not irritating	OECD 404		24; 72 hours	Rabbit	Experimental value	
phony						·	<u> </u>
Route of exposure	Result	Method	Exposure time		Species	determination	Remark
ye	Not irritating	OECD 405		24; 48; 72 hours	Rabbit	Experimental value	Single treatmer
ikin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	
rocarbons, C6-C7,	n-alkane <mark>s, isoalk</mark> ar	nes, cyclics, < 5% n-he					
Route of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
ye	Not irritating				Rabbit	Read-across	
kin	Irritating	Equivalent to OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

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Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Literature	
Skin	Irritating; category 2					Literature	
Inhalation	Irritating; STOT SE cat.3					Literature	
nclusion							1
auses skin irritation.							
auses serious eye irr ot classified as irrita		atory system					
atory or skin sensitis							
DAL THIXOTROPIC CO o (test)data on the r		<u>′E</u>					
idgement is based o		gredients					
<u>etone</u>							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
	Not sens <mark>itizing</mark>	Human observation			Human	Literature	
<u>rclohexane</u>	Docult	Method	Evnocuro timo	Observation time	Species	Value determination	Domark
Route of exposure	resuit	ivietiiou	Exposure time	point time	Species	value determination	Remark
Skin	Not sensitizing	EU Method B.6		24; 48 hours	Guinea pig (male / female)	Experimental value	
hyl acetate							
Route of exposure		Method	Exposure time	Observation time point	,	Value determination	Remark
Intradermal	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	
utanone	Desuit	D d a the a d	Francisco di con	Ohaam satiam tima	Consina	Value determination	Damani
Route of exposure		Method	Exposure time	point	,	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	
nc oxide Route of exposure	Result	Method	Exposure time		Species	Value determination	Remark
Skin	Not sens <mark>itizing</mark>	OECD 406		point		Experimental value	
Skin	Not sens <mark>itizing</mark>	Human observation	2 days (continuous	72 hours	(female) Human	Experimental value	
6-di-tert-butyl-p-cre Route of exposure		Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizing</mark>	Guinea pig maximisation test		24; 48 hours	Guinea pig (male / female)	Experimental value	
Skin	Not sensitizing	Human observation				Experimental value	
olophony		1			2.1.0.0)		
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizing</mark>	Human observation			Human (male / female)	Experimental value	
	Sensitizi <mark>ng;</mark> category <mark>1</mark>		The state of the s			Annex VI	
		ding to Annex VI is deb		t correspond to the	conclusion from th	e test	
		anes, cyclics, < 5% n-h		lo	le	V-l 1 · · · ·	D 1
Route of exposure		Method	Exposure time	point	•	Value determination	Remark
	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male / female)	kead-across	
nclusion ot classified as sensi ot classified as sensi c target organ toxici	tizing for <mark>inhalati</mark>	on		J			
, target organ toxici	٠,						

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	cone Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
	Oral	NOAEL	Equivalent to OECD 408	20 mg/l		No effect	13 week(s)	Mouse (male / female)	Experimer value
•	Dermal								Not releva expert judgemen
	Inhalation (vapours)	NOAEC	Other	19000 ppm		No effect	8 week(s)	Rat (male)	Literature
	Inhalation (vapours)	Dose le <mark>vel</mark>	Human observation study	361 ppm	Central nervous system	neurotoxic effects	2 day(s)	Human	Epidemiol study
ycl	ohexane_			-					
	Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determina
ŀ	Oral								Data waivi
Į.	Dermal Inhalation	NOAEC	EPA OPPTS	7000 ppm		No adverse	13 weeks (6h / day, 5	Rat (male /	Data waivi Experimer
	(vapours)		870.3465			systemic effects	days / week)	female)	value
	Inhalation (vapours)	NOAEC	EPA OPPTS 870.3465	500 mg/m³ air	Central nervous system	No effect	6 h	Rat (male / female)	Experimen value
	<u>l acetate</u>	Parameter	N A a the a al	Malara	been	F654	Even a suma Airea a	Consina	Malue
	Route of exposure			Value	Organ	Effect	Exposure time	Species	Value determina
	Oral (stomach tube)	NOAEL	EPA OTS 795.2600	900 mg/kg bw/day	General	No effect	90 day(s) - 92 day(s)	Rat (male / female)	Experimer value
	Oral (stomach tube)	LOAEL	EPA OTS 795.2600	3600 mg/kg bw/day	General	Body weight, organ weight, food consumption	90 day(s) - 92 day(s)	Rat (male / female)	Experimer value
	Inhalation	NOEC	EPA OTS 798.2450	350 ppm	General	No adverse systemic effects	13 weeks (6h / day, 5 days / week)	Rat (male / female)	Experimer value
	Inhalation			STOT SE cat.3		Drowsiness, dizziness			Annex VI
_	anone_			h		h		lo i	h
- 1	Route of exposure	Paramete	Method	Value	Organ	Effect	Exposure time	Species	Value determina
	Oral								Data waivi
ŀ	Dermal								Data waivi
ŀ	Inhalation	NOAEC	Equivalent to	5041 ppm		No effect	13 weeks (6h / day, 5	Rat (male /	Experimer
	(vapours)	1107120	OECD 413	30 11 ppiii		rio enece	days / week)	female)	value
	Inhalation (vapours)			STOT SE cat.3	Central nervous system	Drowsiness, dizziness			Annex VI
	<u>oxide</u>								
	Route of exposure	Paramete		Value	Organ	Effect	Exposure time	Species	Value determina
	Oral (diet)	NOEL	OECD 408	3000 ppm		No effect	13 weeks (daily)	Rat (male / female)	Read-acro
	Inhalation (aerosol)	NOAEL	OECD 413	1.5 mg/m³ air		No effect	13 weeks (6h / day, 5 days / week)	Rat (male)	Experimer value
	di-tert-butyl-p-cr		NA-411	Malur	lo-mar.	Ltt	Even a sure - 12	C	Malara
	Route of exposure	Parameter	riviethod	Value	Organ	Effect	Exposure time	Species	Value determina
	Oral (diet)	NOAEL		25 mg/kg bw/day	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	No effect		Rat (male / female)	Experimer value
	phony Route of	Paramete	Method	Value	Organ	Effect	Exposure time	Species	Value
- 1	exposure						·		determina
	Oral (diet)	NOAEL	Subchronic toxicity test	0.2 %		No effect	90 day(s)	Rat (male / female)	Inconclusi insufficien
	Dermal								Data waivi
	Inhalation								Data waivi

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Route of exposure	Parame		Method	cs, < 5% n-hexane Value	Organ	Effect	Exposure time	Species	Value determination
Inhalatio (vapours	n NOAEC			4200 mg/m³ air		No effect	3 days (8h / day)	Rat (male)	Experimental value
Inhalatio	n NOAEC			14000 mg/m³		no neurotoxic effects	3 days (8h / day)	Rat (male)	Experimental value
(vapours	,			STOT SE cat.3		Drowsiness, dizziness			Annex VI
nclusion						uizziiie33			
ot classifie e nicity (in DAL THIXO	rowsiness or dizzi d for subchronic to vitro) TROPIC CONTACT a on the mixture a	oxicit ADH	ey <u>ESIVE</u>				4		
<u>cetone</u>									
Result			Method		Test subs		Effect		termination
Negative			Equivalent to	OECD 471	Bacteria	(S.typhimurium)	No effect	Experime	ntal value
clohexane Result			Method		Test subs	strate	Effect	Value de	termination
Negative activatio	with metabolic n, negative withou		Equivalent to	OECD 471		(S.typhimurium)	No effect		ntal value
Negative activatio metabol	with metabolic n, negative withou ic activation		Equivalent to	OECD 476	Mouse (l	ymphoma L5178Y	No effect	Experime	ntal value
thyl acetate	2	l.	Mothod		Toot out	etrato	Effect	Value de	tormination
activatio	with metabolic n, negative withou		Method Equivalent to	OECD 473	Chinese h	namster ovary (CHO)	111		termination ntal value
Negative			Equivalent to	OECD 471	Bacteria	(S.typhimurium)	No effect	Experime	ntal value
utanone									
Result			Method		Test subs		Effect		termination
activatio metabol	with metabolic n, negative withou ic activation		Equivalent to	OECD 471	Bacteria	(S.typhimurium)	No effect	Experime	ntal value
nc oxide Result			Method		Test subs	strato	Effect	Value de	termination
Negative activatio metabol	with metabolic n, negative withou		Equivalent to	OECD 471		(S.typhimurium)	No effect		ntal value
Result	utyl-p-cresol		Method		Test subs	strate	Effect	Value de	termination
Negative			Ames test			(S.typhimurium)	No effect		ntal value
Negative		_	Equivalent to	OECD 473		namster ovary (CHO)			ntal value
Negative	!		Equivalent to	OECD 479	Chinese I	namster ovary (CHO)	No effect	Experime	ntal value
olophony			N / a + la a - 1		Test wit		F## - +	hr.1	
Result Negative	with metabolic		Method OECD 471		Racteria	strate (S.typhimurium)	Effect No effect		termination ntal value
activatio metabol	n, negative withou ic activation	ut							
Negative			OECD 476		cells)	ymphoma L5178Y	No effect		ntal value
Negative			OECD 473		Human ly	ymphocytes	No effect	Experime	ntal value
	s, C6-C7, n-alkane			cs, < 5% n-hexane	Tark	two to	T## at	hr. i	
Result			Method OECD 476		Test subs	strate	Effect No effect		termination
Negative			OECD 476				ио епест	Read-acro	USS
o (test)dat	vivo) TROPIC CONTACT on the mixture a s based on the rel	vaila	ible						
n for revisio	n: 3.2					H	Publication date: 200 Date of revision: 201		
							Date of Tevision. 201	9-10-11	

<u>icetone</u>					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative		13 week(s)	Mouse (male / female)		Literature
yclohexane	·				
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 475	5 days (6h / day)	Rat (male / female)	Bone marrow	Experimental value
thyl acetate					1
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male)		Experimental value
outanone	1				<u>"</u>
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male / female)		Experimental value
inc oxide					I
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	OECD 474		Mouse (male)	Bone marrow	Experimental value
2,6-di-tert-butyl-p-cresol					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Chromosome aberration assay	8 weeks (daily)	Mouse (male)		Experimental value
Negative	Micronucleus test		Mouse (female)	Bone marrow	Experimental value

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

acetone

	Route of	Parameter	ivietnoa	value	Exposure time	species	Effect	Organ	value
	exposure								determination
	Dermal	NOEL	Other	79 mg	51 week(s)	Mouse (female)	No effect		Literature
2,6	-di-tert-butyl-p	-cresol							
	Route of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
	exposure								determination

	Route of	Parameter	ivietnoa	value	exposure time	species	Effect	Organ	value
	exposure								determination
	Oral		Carcinogenic		104 week(s)	Rat (male /	No carcinogenic		Experimental
			toxicity study			female)	effect		value
cole	ophony								

Ro	oute of	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
ex	posure								determination
Inl	halation								Data waiving
De	ermal								Data waiving
Or	al								Data waiving

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No (test)data on the mixture available

Judgement is based on the relevant ingredients

<u>acetone</u>

_	toric								
		Parameter	Method	Value	Exposure time	Species	Effect	. 3	Value determination
	Developmental toxicity	NOAEC	Equivalent to OECD 414	11000 ppm	6 days (gestation, daily) - 19 days (gestation, daily)				Experimental value
	Effects on fertility	NOAEL	Other	900 mg/kg bw/day	13 week(s)	Rat (male)	No effect		Literature

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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h / day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h / day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	7000 ppm	> 11 weeks (6h / day, 5 days / week)	Rat (male / female)	No effect		Experimental value
hyl acetate	D	N A - A I I	hr-t	E	C	ECC 1	0	hr
	Parameter	Method	Value	· ·	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 3600 mg/kg bw/day	7 day(s)	Mouse	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	2200 mg/kg bw/day	8 days (gestation, daily) - 14 days (gestation, daily)		No effect		Read-across
	LOAEL	Equivalent to OECD 414	3600 mg/kg bw/day	8 days (gestation, daily) - 14 days (gestation, daily)		Mortality	General	Read-across
Effects on fertility	NOAEL	Equivalent to OECD 416	20700 mg/kg bw/day	13 weeks (6h / day, 5 days / week)	Mouse (male / female)	No effect		Experimental value
<u>itanone</u>	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
Developmental toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h / day)	Rat	No effect	Foetus	determination Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h / day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	1644 mg/kg bw/day - 1771 mg/kg bw/day		Rat (male / female)	No effect		Read-across
nc oxide					1.		-	
	Parameter	Method	Value		Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	OECD 414	7.5 mg/kg bw/day	14 days (6h / day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	OECD 414	7.5 mg/kg bw/day	14 days (6h / day)	Rat	No effect		Experimental value
Effects on fertility	NOAEL (F1)	Equivalent to OECD 416	7.5 mg/kg bw/day	22 weeks (daily)	Rat (male / female)	No effect		Read-across
6-di-tert-butyl-p-cresol	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value
Developmental toxicity	NOAEL	Equivalent to	375 mg/kg		Rat (female)	No effect	Foetus	determination Experimental
Maternal toxicity	NOAEL	OECD 414 Equivalent to OECD 414	bw/day 93.5 mg/kg		Rat (female)	No effect		value Experimental
Effects on fertility	NOAEL	OECD 414	500 mg/kg		Rat (female)	No effect		value Experimental value
	NOAEL		bw/day 100 mg/kg bw/day		Rat (male)	No effect		Experimental value
blophony			Jvv/ day		_			value
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL (F1)	OECD 421	3000 ppm	30 day(s) - 45 day(s)	Rat (male / female)	No effect		Experimental value
Effects on fertility	NOAEL (P)	OECD 421	3000 ppm	30 day(s) - 45 day(s)	Rat (male / female)	No effect		Experimental value
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hydrocarbons, C6-C7	, n-alkanes	, isoalkanes, c	yclics,	< 5% n-he	xane

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC		≥ 1200 ppm	10 days (6h / day)	Rat	No effect		Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	900 ppm	10 days (6h / day)	Rat (female)	No effect		Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	9000 ppm		Rat (male / female)	No effect		Read-across

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No (test)data on the mixture available

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value
rarameter	Metriou	value	Organ	Ellect	Exposure time	Species	determination
			Skin	Skin dryness or cracking			Literature study
clohexane							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
NOAEC	Other	2000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental va
LOAEC	Other	7000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental va
nyl acetate							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Dehydration	6 days (1x / day)	Human	Experimental va
			Skin	Skin dryness or cracking			Literature
<u>anone</u>							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Equivalent to OECD 404		Skin	Skin dryness or cracking			Read-across

Chronic effects from short and long-term exposure

SOUDAL THIXOTROPIC CONTACT ADHESIVE

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT: Red skin. Skin rash/inflammation. Dry/sore throat. Headache. Nausea. Feeling of weakness. Possible inflammation of the respiratory tract.

SECTION 12: Ecological information

12.1. Toxicity

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No (test)data on the mixture available

Classification is based on the relevant ingredients

<u>acetone</u>

		Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes			EU Method C.1	<mark>5540</mark> mg/l	96 h	Salmo gairdneri	Static system		Experimental value; Nominal concentration
Acute toxicity crustacea		LC50	Other	12600 mg/l	48 h	Daphnia magna	Static system		Experimental value; Nominal concentration
Toxicity algae and other aqua plants	atic	EC50		> 7000 mg/l	96 h	Selenastrum capricornutum	Static system		Experimental value; Nominal concentration
Long-term toxicity aquatic crustacea			Equivalent to OECD 211	2212 mg/l	28 day(s)		Flow-through system	Fresh water	Experimental value

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<u>clohexane</u>	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determinatio
	- aramotor					rost dosign	water	Value determination
Acute toxicity fishes	LC50	Equivalent to OECD 203	4.53 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value; Measured concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	0.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Locomotor effect
Toxicity algae and other aqu <mark>atic</mark> plants	ErC50	Equivalent to OECD 201	9.317 mg/l	72 h	Pseudokirchnerie lla subcapitata			Experimental value; GLP
	NOEC	OECD 201	0.94 mg/l	72 h	Pseudokirchnerie lla subcapitata			Experimental value Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro- organisms	IC50		29 mg/l	15 h	Aerobic micro- organisms			Experimental value Nominal concentration
hyl acetate	Dawanatan	N de Alexand	h/aliva	Dunation	Curaina	Task dasima	Funcin (anili	Value determination
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	US EPA	230 mg/l	96 h	Pimephales promelas	Flow-through system	Fresh water	Experimental value
Acute toxicity crustacea	EC50		154 mg/l	48 h	Daphnia magna			Literature
Toxicity algae and other aqu <mark>atic</mark> plants	NOEC	OECD 201	> 100 mg/l	72 h	Scenedesmus subspicatus	Static system	Fresh water	Experimental value Growth rate
Long-term toxicity fish	NOEC	ECOSAR v1.00	6.3 mg/l	32 day(s)	Pisces		Fresh water	QSAR
	NOEC	OECD 210	< 9.65 mg/l	32 day(s)	Pimephales promelas	Flow-through system	Fresh water	Experimental value Growth rate
crustacea	NOEC	Equivalent to OECD 211		21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value Reproduction
Toxicity aquatic micro- organisms	EC50		5870 mg/l	15 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental value Inhibition
<u>itanone</u>	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
						· ·	water	
Acute toxicity fishes	LC50	OECD 203	2993 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value GLP
Acute toxicity crustacea	EC50	OECD 202	308 mg/l	48 h	Daphnia magna		Fresh water	Experimental value GLP
Toxicity algae and other aqu <mark>atic</mark> plants	ErC50	OECD 201	1972 mg/l	72 h	Pseudokirchnerie lla subcapitata	Static system	Fresh water	Experimental value GLP
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea								Data waiving
Toxicity aquatic micro- organisms	Toxicity threshold	DIN 38412-8	1150 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental value
nc oxide	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinati
Acute toxicity fishes	LC50	ASTM E729- 88	0.169 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Read-across; Zinc i
Acute toxicity crustacea	EC50	OECD 202	1 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	IC50	OECD 201	0.136 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value Zinc ion
	NOEC	OECD 201	0.024 mg/l	3 day(s)	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental value Zinc ion
Long-term toxicity fish	NOEC	OECD 215	0.039 mg/l	30 day(s)	Oncorhynchus mykiss	Flow-through system	Fresh water	Read-across; Zinc io
			0.04/1	21 day(s)	Daphnia magna	Semi-static	Fresh water	Read-across; Zinc io
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.04 mg/l	21 uay(s)	Dapilila magna	system		

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C.1 LC50 ECOSAR v1.00 0.199 mg/l 96 h Pisces		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determin
Acute toxicity crustacea CSO CSOSAR V1.000 199 mg/l 86 h Paces Saltic system fresh water Caperimental value	Acute toxicity fishes	LC0		≥ 0.57 mg/l	96 h			Fresh water	Experimental v GLP
CLP OCCE DEC 202 0.5 mg/l OCCE DEC 203 0.5 m		LC50	ECOSAR v1.0	0 <mark>0.19</mark> 9 mg/l	96 h	Pisces	,		QSAR
Concicity algae and other aquatic ESSO	Acute toxicity crustacea	EC50	OECD 202	0.48 mg/l	48 h	Daphnia magna	Static system	Fresh water	
Jacobs Wilson Wilson Wilson Wilson Work Cook Art v. 100 D41 mg/l 21 day(s) Jacobs Wilson Wilson Work Considered with Congress with the Cook Cook Art v. 100 D41 mg/l 21 day(s) Jacobs Wilson Wilson Work Considered with Congress with the Cook Cook Art v. 100 D41 mg/l 24 h Jacobs Wilson Wilson Work Cook Cook Cook Cook Cook Cook Cook C		NOEC	OECD 202	0.15 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental v GLP
Chronic constraines Note Section Section	, ,	itic EC50	ECOSAR v1.0	0 <mark>0.758</mark> mg/l	96 h	Algae			Calculated valu
creatacea	Long-term toxicity fish	NOEC	ECOSAR v1.0	0 <mark>0.041</mark> mg/l		Pisces			
Duration		NOEC	OECD 202	0.316 mg/l	21 day(s)	Daphnia magna		Fresh water	
Parameter Method Value Duration Species Test design Fresh valter Nature Nat		EC50		1.7 mg/l	24 h		Static system	Fresh water	Experimental v
Acute toxicity fishes	olophony	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determi
GLP	A south a through the finds on					·	J	water	
Country of the coun	Acute toxicity fishes	LC50	OECD 203	_				Fresh water	•
plants GLP CSC50 DECD 209 > 10000 mg/l 3 h Activated sludge Static system Fresh water Experimental v gardrocarbons, C6-C7, n-alkanes, soalkanes, cyclics, < 5% n-hexane Parameter Method Value Duration Species Test design Fresh/salt water Activated sludge Static system Fresh water Experimental v gardrocarbons, C6-C7, n-alkanes, soalkanes, cyclics, < 5% n-hexane Method Value Duration Species Test design Fresh/salt water Species Species	Acute toxicity crustacea	EC50	OECD 202	911 mg/l	48 h	Daphnia magna	Static system	Fresh water	
organisms drocarbons, C6-C7, n-alkanes, Isoalkanes, cyclics, < 5% n-hexane drocarbons, C6-C7, n-alkanes, Isoalkanes, cyclics, < 5% n-hexane drocarbons, C6-C7, n-alkanes, Isoalkanes, cyclics, < 5% n-hexane Acute toxicity fishes	, ,	itic ErC50	OECD 201	> 1000 mg/l	72 h		Static system	Fresh water	Experimental v
Parameter Method Value Duration Species Test design Fresh/salt Value determination Acute toxicity fishes LL50 OECD 203 11.4 mg/l WAF		EC50	OECD 209	> 10000 mg/l	3 h	Activated sludge	Static system	Fresh water	-
Acute toxicity fishes LL50 OECD 203 11.4 mg/l WAF Acute toxicity crustacea EL50 OECD 202 3.0 mg/l WAF Toxicity algae and other aquatic EL50 OECD 201 30 mg/l WAF Long-term toxicity fish NOELR OECD 211 OE	drocarbons, C6-C7, n-alkane				Duration	Species	Tost design	Froch/calt	Value determi
Acute toxicity crustacea EL50 DECD 202 3.0 mg/l WAF Acute toxicity crustacea EL50 DECD 201 30 mg/l WAF Ala h Daphnia magna Static system Fresh water GLP Corporative agae and other aquatic EL50 DECD 201 Somg/l WAF Ala h Daphnia magna Static system Fresh water GLP Seperimental value Experimental value Expe						· ·	Ŭ	water	
GLP Toxicity algae and other aquatic EL50 OECD 201 30 mg/l WAF 72 h Pseudokirchnerie Static system Fresh water Crowstrate Cong-term toxicity fish NOELR 2.045 mg/l 28 Oncorhynchus Mykiss Fresh water OSAR Cong-term toxicity aquatic NOEC OECD 211 0.17 mg/l 21 day(s) Daphnia magna Static system Fresh water OSAR Crowstratea OSAR Crowstratea OSAR Oracrity aquatic micro-oracid parameters OSAR Oracrity approach OSAR	Acute toxicity fishes	LL50	OECD 203	O.	96 h			Fresh water	
plants	Acute toxicity crustacea	EL50	OECD 202	3.0 mg/I WAF	48 h	Daphnia magna	Static system	Fresh water	•
Long-term toxicity fish NOELR 2.045 mg/l 28 Oncorhynchus mykiss Fresh water QSAR Mykiss Daphnia magna Static system Fresh water Read-across Crustacea Toxicity aquatic micro-organisms Static system Fresh water Presh water Read-across Toxicity aquatic micro-organisms Static system Fresh water Presh water Read-across Static system Fresh		itic EL50	OECD 201	- 100 mg/l	72 h		Static system	Fresh water	•
Long-term toxicity aquatic crustacea Toxicity aquatic micro- organisms Static system Fresh water Read-across Read-acros	Long-term toxicity fish	NOELR			28			Fresh water	QSAR
Toxicity aquatic micro- organisms As h	, ,	NOEC	OECD 211		21 day(s)		Static system	Fresh water	Read-across
nclusion oxic to aquatic life with long lasting effects. 2. Persistence and degradability cetone Biodegradation water Method Value Duration Value determination OECD 301B: CO2 Evolution Test 90.9 % 28 day(s) Experimental value cyclohexane Biodegradation water Method Value Duration Value determination OECD 301F: Manometric Respirometry Test 77 %; GLP 28 day(s) Experimental value Half-life soil (t1/2 soil) Method Value Primary degradation/mineralisation Iterature study Infor revision: 3.2 Publication date: 2007-05-09	Toxicity aquatic micro-	EL50			48 h			Fresh water	
Method Value Duration	oxic to aquatic life with long la .2. Persistence and deg <u>setone</u> Biodegradation water Method	radability							
Biodegradation water Method Value Duration Value determination		Test	90.9 %		28 0	day(s)	Ex	perimental val	ue
OECD 301F: Manometric Respirometry Test 77 %; GLP 28 day(s) Experimental value Half-life soil (t1/2 soil) Method Value Primary degradation/mineralisation 28 day(s) - 180 day(s) Literature study Primary degradation Literature study Primary degradation Literature study	Biodegradation water		Value		Dura	ation	Va	nlue determina	ation
Method Value Primary degradation/mineralisation 28 day(s) - 180 day(s) Literature study Primary degradation/mineralisation Literature study		espirometry Tes							
28 day(s) - 180 day(s) Literature study n for revision: 3.2 Publication date: 2007-05-09			Value					alue determina	ation
n for revision: 3.2 Publication date: 2007-05-09			28 day(s) - 18	O day(s)	deg	radation/mineralisa		erature study	
Date of revision: 2019-10-11						D. I. P P.		DE 00	
	for revision: 3.2					Publicatio	n date: 2007-0	J5-U9	

Biodegradation wa	ter	Malini		Duration	Malua data marina ati a m
Method		Value		Duration	Value determination
OECD 301B: CO2		93.9 %		28 day(s)	Experimental value
OECD 301D: Close		100 %		28 day(s)	Experimental value
Phototransformation Method	on air (D150 air)	Value		Conc. OH-radicals	Value determination
Metriod					
L		40 h		500000 /cm ³	QSAR
outanone Biodegradation wa	ter				
Method		Value		Duration	Value determination
OECD 301D: Close	ed Bottle Test	98 %: GLP		28 day(s)	Experimental value
,6-di-tert-butyl-p-cre		,		7.7	
Biodegradation wa	ter				
Method		Value		Duration	Value determination
OECD 301C: Modi	fied MITI Test (I)	4.5 %		28 day(s)	Experimental value
Phototransformation	on air (D <mark>T50 air)</mark>				
Method		Value		Conc. OH-radicals	Value determination
AOPWIN v1.92		7.02 h		1500000 /cm³	Calculated value
Biodegradation soil					
Method		Value		Duration	Value determination
11.16.16		63.82 %		1 day(s)	Experimental value
Half-life water (t1/2	2 water)	hratin		Drimory	Malua datamatinati
Method		Value		Primary degradation/mineralisation	Value determination
PIOWIN 4 10		27 E doule	N. OSAP	Primary degradation	Calculated value
BIOWIN 4.10 Half-life soil (t1/2 s	oil)	37.5 day(s	oj, QSAN	Filliary degradation	Calculated value
Method	JII)	Value		Primary	Value determination
Wicthou		Vulue		degradation/mineralisation	value determination
EPI Suite		75 day(s)		Primary degradation	Calculated value
Half-life air (t1/2 air	r)	, 5 44 (5)		i iiiiai y acgi aaaticii	
Method	,	Value		Primary	Value determination
				degradation/mineralisation	
AOPWIN v1.92		7.018 h		Primary degradation	Calculated value
olophony					
Biodegradation wa	ter				
Method		Value		Duration	Value determination
OECD 301D: Close		71 %; GLP		28 day(s)	Experimental value
ydrocarbons, C6-C7, Biodegradation wa	n-alkanes, isoalka	nes, cyclics, < 5% n-	<u>-hexane</u>		
Method	ter	Value		Duration	Value determination
	motric Dosnirom				
OECD 301F: Mano	metric Respirome	etry Test 98 %; GLP		28 day(s)	Experimental value
eaction mass of 2.2'	Methylene his/4-t	ert-hutylphenol\ /-	tert-hutyl-2 6-his[/5-	 tert-butyl-2-hydroxyphenyl)methyl]pl	nenol and 2.2'-methylenehis/4-tert-
i-[(5-tert-butyl-2-hyd			tert-butyr-2,0-bisj(5-	tert-butyr-z-nydroxypnenyr/metnyrjpi	Terior and 2,2 -methylenesis 4-tert-
Biodegradation wa		<u> </u>			
Method		Value		Duration	Value determination
		0 %		28 day(s)	Experimental value
					•
nclusion					
Contains non readily l	oiodegra <mark>dable co</mark> r	nponent(s)			
2.3. Bioaccumula					
DAL THIXOTROPIC CO	ONTACT ADHESIV	<u> </u>			
g Kow			hrata		hater a second
/lethod	Remark		Value	Temperature	Value determination
	Not appl	licable (mixture)			
<u>cetone</u>					7
cetone BCF fishes	Method	Value	Duration	Species	Value determination
		0.69		Pisces	
BCF fishes					
BCF fishes Parameter	organisms			Charios	Value determination
BCF fishes Parameter BCF	organisms Method	Value	Duration	Species	value determination
BCF fishes Parameter BCF BCF other aquatic of		Value 3	Duration	species	Calculated value
BCF fishes Parameter BCF BCF other aquatic of Parameter	Method	Value 3	Duration	species	
BCF fishes Parameter BCF BCF other aquatic of Parameter BCF	Method	3	Duration Value	Temperature	
BCF fishes Parameter BCF BCF other aquatic of Parameter BCF Log Kow	Method BCFWIN	3			Calculated value
BCF fishes Parameter BCF BCF other aquatic of Parameter BCF Log Kow	Method BCFWIN	3	Value		Calculated value Value determination Test data

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Parameter	Method	Value	Duration	Specie	s	Value determination
BCF		167	20.01.011		hales promelas	QSAR
og Kow					·	
Method	Ren	mark	Value		Temperature	Value determination
Other			3.44		25 °C	Experimental value
nyl acetate						
BCF fishes	h	.				1
Parameter	Method	Value	Duration	Specie		Value determination
BCF		30	3 day(s)	Leuciso	cus idus	Experimental value
og Kow Method	Пом	m o wle	Malue		Tommoratura	Value determination
EPA OPPTS 830.7		nark	Value 0.68		Temperature 25 °C	Value determination Experimental value
tanone	300		0.08		25 C	Experimental value
og Kow						
Method	Ren	mark	Value		Temperature	Value determination
OECD 117			0.3		40 °C	Experimental value
c oxide						•
og Kow						
Method	Ren	mark	Value		Temperature	Value determination
			1.53			Estimated value
5-di-tert-butyl-p-cr	<u>esol</u>					
BCF fishes	<u></u>	L				
Parameter	Method	Value	Duration	Specie		Value determination
BCF	OECD 305	230 - 2500	56 day(s)	Cyprin	us carpio	Experimental value
og Kow Method	Dor	mark	Value	A	Tomporaturo	Value determination
Metriou	Reil	IIdik	5.1		Temperature	Experimental value
ophony			5.1		_	Experimental value
BCF other aquatic	organisms					
Parameter	Method	Value	Duration	Specie	S	Value determination
BCF	BCFBAF v3.00	56.2			<u> </u>	QSAR
og Kow						
Method	Ren	mark	Value		Temperature	Value determination
OECD 117			1.9			Experimental value
	, n-alkane <mark>s, isoalk</mark>	kanes, cyclics, < 5% r	<u>ı-hexane</u>			
og Kow						
Method		mark	Value		Temperature	Value determination
		data available	List but 12 Chi		der der Deret	1 laborate de 12 2l contre la cabiatata de
(5-tert-butyl-2-hy			-tert-butyl-2,6-bis	<u>, (5-tert-butyl-2-n</u>	yaroxypnenyi)metr	nyl]phenol and 2,2'-methylenebis{4-ter
	лохурпенуниен	тупрпеног				
חת א חיואי		nark	Value		Temperature	Value determination
og Kow Method	Ren				25 °C	Experimental value
Method	Ren	Hark	4.67 - 6.2			iexperimental value
Method	Ren	Haik	4.67 - 6.2		123 C	Experimental value
			4.67 - 6.2		23 0	схрепшента value
Method clusion ntains bioaccumu	ative component		4.67 - 6.2		E 3 C	Experimental value
Method Clusion Intains bioaccumu 4. Mobility in s	ative component		4.67 - 6.2			Experimental value
Method Clusion Intains bioaccumu 4. Mobility in statement	ative component		4.67 - 6.2	5	F3 C	Experimental value
Method Clusion Intains bioaccumu 4. Mobility in statement Iog) Koc	ative component			d		
Method Clusion Intains bioaccumu 4. Mobility in statement Iog) Koc Parameter	ative component		Metho	d	Value	Value determination
Method Clusion Intains bioaccumu 4. Mobility in statement Iog) Koc Parameter Iog Koc	ative component			ıd		
Method Clusion Intains bioaccumu 4. Mobility in statement Iog) Koc Parameter	lative components		Metho	ıd	Value	Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Parameter log Koc Intains bioaccumu	lative components		Metho	od Fraction soil	Value	Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Iog Koc Iog Koc Aul acetate Percent distribution	lative component	(s)	Metho Other		Value 2.89	Value determination QSAR
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Iog Koc Iog Koc Aul acetate Percent distribution	lative component	(s)	Metho Other Fraction		Value 2.89	Value determination QSAR
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu A. Mobility in sclohexane log Koc Intains bioaccumu Method Mackay level III Itanone	lative component soil	Fraction biota	Metho Other Fraction sediment	Fraction soil	Value 2.89 Fraction water	Value determination QSAR Value determination
Method Clusion Intains bioaccumu 4. Mobility in stockane log) Koc Parameter log Koc Intains bioaccumu A. Mobility in stockane log Koc Intains bioaccumu Mackay level III Itanone log) Koc	lative component soil	Fraction biota	Metho Other Fraction sediment 0.27 %	Fraction soil	Value 2.89 Fraction water 35.3 %	Value determination QSAR Value determination Calculated value
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Method Mackay level III tanone log) Koc Parameter	lative component soil	Fraction biota	Metho Other Fraction sediment	Fraction soil	Value 2.89 Fraction water 35.3 %	Value determination QSAR Value determination Calculated value Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu A. Mobility in sclohexane log) Koc Parameter log Koc Mackay level III tanone log) Koc Parameter log Koc log Koc	lative component soil	Fraction biota	Metho Other Fraction sediment 0.27 %	Fraction soil	Value 2.89 Fraction water 35.3 %	Value determination QSAR Value determination Calculated value
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu A. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III Itanone log) Koc Parameter log Koc C oxide	lative component soil	Fraction biota	Metho Other Fraction sediment 0.27 %	Fraction soil	Value 2.89 Fraction water 35.3 %	Value determination QSAR Value determination Calculated value Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III tanone log) Koc Parameter log Koc Parameter log Koc Coxide log) Koc	lative component soil	Fraction biota	Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53	Value determination QSAR Value determination Calculated value Value determination Calculated value
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III tanone log) Koc Parameter log Koc C oxide log) Koc Parameter log Koc C axide log) Koc Parameter	lative component soil	Fraction biota	Metho Other Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53	Value determination QSAR Value determination Calculated value Value determination Calculated value Value determination Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III tanone log) Koc Parameter log Koc Parameter log Koc Coxide log) Koc	lative component soil	Fraction biota	Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53	Value determination QSAR Value determination Calculated value Value determination Calculated value
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III tanone log) Koc Parameter log Koc C oxide log) Koc Parameter log Koc C axide log) Koc Parameter	lative component soil	Fraction biota	Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53	Value determination QSAR Value determination Calculated value Value determination Calculated value Value determination Value determination
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu A. Mobility in sclohexane log) Koc Intains bioaccumu Parameter Iog Koc Intains bioaccumu Mackay level III tanone Iog) Koc Iog Koc Iog Koc Parameter Iog Koc Parameter Iog Koc	lative component soil	Fraction biota	Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53 Value 2.2	Value determination QSAR Value determination Calculated value Value determination Calculated value Value determination Literature study
Method Clusion Intains bioaccumu 4. Mobility in sclohexane log) Koc Parameter log Koc Intains bioaccumu Mackay level III tanone log) Koc Parameter log Koc C oxide log) Koc Parameter log Koc C axide log) Koc Parameter	lative component soil	Fraction biota	Fraction sediment 0.27 %	Fraction soil 13.3 %	Value 2.89 Fraction water 35.3 % Value 1.53 Value 2.2	Value determination QSAR Value determination Calculated value Value determination Calculated value Value determination Value determination

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

(log) Koc

Parameter	Method	Value	Value determination
Кос	PCKOCWIN v1.66	23030	Calculated value
log Koc	PCKOCWIN v1.66	4.362	Calculated value

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
8.92E-5 atm m ³ /mol	SRC HENRYWIN v3.10			Calculated value

Percent distribution

Method	Fraction air	 Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	0.37 %	30.4 %	58.5 %	10.7 %	Calculated value

colophony

(log) Koc

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

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

(log) Koc

Parameter I		Method	Value		Value determination
					Data waiving

Percent distribution

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

Conclusion

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

12.5. Results of PBT and vPvB assessment

Due to insufficient data no statement can be made whether the component(s) fulfil(s) the criteria of PBT and vPvB according to Annex XIII of Regulation (EC) No 1907/2006.

12.6. Other adverse effects

SOUDAL THIXOTROPIC CONTACT ADHESIVE

Fluorinated greenhouse gases (Regulation (EU) No 517/2014)

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

Ozone-depleting potential (ODP)

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

cyclohexane

Groundwater

Groundwater pollutant

ethyl acetate

Groundwater

Groundwater pollutant

butanone

Groundwater

Groundwater pollutant

zinc oxide

Groundwater

Groundwater pollutant

colophony

Groundwater

Groundwater pollutant

SECTION 13: Disposal considerations

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

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

Hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

08 04 09* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

13.1.2 Disposal methods

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Recycle/reuse. Incinerate under surveillance with energy recovery. Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

European Union

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

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

	ort information	
d (ADR)		
4.1. UN number		
UN number		1133
4.2. UN proper shipping na	ame	
Proper shipping name		Adhesives
4.3. Transport hazard class		
Hazard identification nu	mber	
Class		3
Classification code		F1
4.4. Packing group		
Packing group Labels		3
4.5. Environmental hazard		5
Environmentally hazard		yes
4.6. Special precautions fo		lycs
Special provisions	i deci	
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
(DID)		
(RID) 4.1. UN number		
UN number		1133
4.2. UN proper shipping na	ama	1133
Proper shipping name		Adhesives
4.3. Transport hazard class	s(es)	
Hazard identification nu		33
Class		3
Classification code		F1
4.4. Packing group		
Packing group		III
Labels		3
4.5. Environmental hazard		
Environmentally hazard		yes
4.6. Special precautions fo	ruser	
Special provisions Limited quantities		Combination packagings: not more than 5 liters per inner packaging for
Limited quantities		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 RID
nd waterways (ADN)		
4.1. UN number		
UN number		1133
 UN proper shipping na Proper shipping name 	ame	Adhesives
4.3. Transport hazard class	(AC)	Autresives
Class	(E3)	3
Classification code		F1
4.4. Packing group		
Packing group		iii
Labels		3
4.5. Environmental hazard	S	
Environmentally hazard	ous substance mark	yes
4.6. Special precautions fo	r 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)
or revision: 3.2		Publication date: 2007-05-09
UI TEVISIUIT. 3.2		Date of revision: 2019-10-11

Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADN
Sea (IMDG/IMSBC)	
14.1. UN number	
UN number	1133
14.2. UN proper shipping name	1200
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	
Marine pollutant	P
Environmentally hazardous substance mark	ves
14.6. Special precautions for user	
Special provisions	223
Special provisions	955
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.2 of IMDG
14.7. Transport in bulk according to Annex II of Marpol and	
Annex II of MARPOL 73/78	Not applicable, based on available data
V (010 TI (11T1 DOD)	
Air (ICAO-TI/IATA-DGR)	
14.1. UN number	
UN number	1133
14.2. UN proper shipping name	
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Class	3
14.4. Packing group	
Packing group	III.
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	Transition of the second of th
Special provisions	A3
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 3.3.3.1 of ICAO
Passenger and cargo transport	
Limited quantities: maximum net quantity per packaging	g 10 L

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	
78.031 % - 78.047 %		
671.07 g/l - 671.20 g/l		

REACH Annex XVII - Restriction

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

		Designation of the substance, of the substances or of the mixture	e group of	Conditions of restriction
- acetone - cyclohexane - ethyl acetate - butanone - hydrocarbons, C6-C7, n-alkanes, iso cyclics, < 5% n-hexane	oalkanes,	types A and B, 2.9, 2.10, 2.12, 2.13	and classes legulation 2.7, 2.8 categories 1 types A to verse lity or on a narcotic	1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).
•				•

Reason for revision: 3.2 Publication date: 2007-05-09
Date of revision: 2019-10-11

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	r	
- acetone	Substances classified as flammable	
- cyclohexane - ethyl acetate - butanone - hydrocarbons, C6-C7, n-alkanes, isc cyclics, < 5% n-hexane	category 1 or 2, flammable liquids 1, 2 or 3, flammable solids categor substances and mixtures which, in palkanes, with water, emit flammable gases, 2 or 3, pyrophoric liquids category pyrophoric solids category 1, regar whether they appear in Part 3 of 4	y 1 or 2, contact — metallic glitter intended mainly for decoration, category 1, — artificial snow and frost, — "whoopee" cushions, dless of — silly string aerosols,
	that Regulation or not.	— Initiation Exteriority, — horns for parties, — decorative flakes and foams, — artificial cobwebs, — stink bombs. 2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only". 3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/ 324/EEC. 4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
· cyclohexane	Cyclohexane	 Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1% by weight in package sizes greater than 350 g. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1% by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows: "— This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying."
National legislation Belgium SOUDAL THIXOTROPIC C No data available National legislation The Net	ONTACT ADHESIVE	
SOUDAL THIXOTROPIC C		
Waterbezwaarlijkheid butanone	B (2); Algemene Beoordeling	smetnoalek (ABM)
Huidopname (wettelijk	c) 2-Butanon; H	
National legislation France SOUDAL THIXOTROPIC C No data available butanone	ONTACT ADHESIVE	
Risque de pénétration percutanée	Méthyléthylcétone; PP	
National legislation German SOUDAL THIXOTROPIC C	ONTACT ADHESIVE	
WGK	2; Verordnung über Anlager	zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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acetone	
TA-Luft	5.2.5
TRGS900 - Risiko der	Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden
cyclohexane	
TA-Luft	5.2.5; 1; 1
ethyl acetate	
TA-Luft	5.2.5
TRGS900 - Risiko der	Ethylacetat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden
<u>butanone</u>	
TA-Luft	5.2.5
TRGS900 - Risiko der	Butanon; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden
Hautresorptive Stoffe	Butanon; H; Hautresorptiv
zinc oxide	
TA-Luft	5.2.1
2,6-di-tert-butyl-p-creso	
TA-Luft	5.2.5; 1; 1
TRGS900 - Risiko der	2,6-Di-tert-butyl-p-kresol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des
Fruchtschädigung	biologischen Grenzwertes nicht befürchtet zu werden
colophony	
TA-Luft	5.2.1
hydrocarbons, C6-C7, n-a	al <mark>kanes, isoalkanes, cyclics, < 5% n-he</mark> xane
TA-Luft	5.2.5; I; I

National legislation United Kingdom

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No data available

<u>butanone</u>

	Skin absorption		Butan-2-one (methyl ethyl ket	one); Sk		
C	olophony					
	Skin Sensitisation		Rosin-based solder flux fume;	Sen		
	Respiratory sensitisation	n	Rosin-based solder flux fume;	Sen		

Other relevant data

SOUDAL THIXOTROPIC CONTACT ADHESIVE

No data available

acetone

TLV - Carcinogen	Acetone; A4
2,6-di-tert-butyl-p-cresol	
TLV - Carcinogen	Butylated hydroxytoluene (BHT); A4
IARC - classification	3; Butylated hydroxytoluene (bht)
colophony	
Respiratory Sensitisation	Rosin core solder thermal decomposition products(colophony); SEN; Sensitization
Skin Sensitisation	Rosin core solder thermal decomposition products(colophony): SEN: Sensitization

15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

SECTION 16: Other information

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

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation. H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

(*) INTERNAL CLASSIFICATION BY BIG ADI

Acceptable daily intake AOEL Acceptable operator exposure level

CLP (EU-GHS) Classification, labelling and packaging (Globally Harmonised System in Europe)

DMEL **Derived Minimal Effect Level** DNEL **Derived No Effect Level** EC50 Effect Concentration 50 %

ErC50 EC50 in terms of reduction of growth rate

LC50 Lethal Concentration 50 %

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LD50 Lethal Dose 50 %

NOAEL No Observed Adverse Effect Level
NOEC No Observed Effect Concentration

OECD Organisation for Economic Co-operation and Development

PBT Persistent, Bioaccumulative & Toxic
PNEC Predicted No Effect Concentration
STP Sludge Treatment Process

vPvB very Persistent & very Bioaccumulative

M-factor

Reason for revision: 3.2

cyclohexane	1	Acute	ECHA
zinc oxide	1	Acute	ECHA
zinc oxide	1	Chronic	ECHA
2,6-di-tert-butyl-p-cresol	1	Acute	BIG

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