

## SAFETY DATA SHEET

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

## Soudal Thixotropic Contact Adhesive 46A

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

#### 1.1. Product identifier

Product name **Registration number REACH** Product type REACH

- : Soudal Thixotropic Contact Adhesive 46A : Not applicable (mixture)
- : Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses Adhesive

1.2.2 Uses advised against No uses advised against known

#### 1.3. Details of the supplier of the safety data sheet

#### Supplier of the safety data sheet

SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **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 **2** +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

Class	Category	Hazard statements
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.
Eye Irrit.	category 2	H319: Causes serious eye irritation.
Skin Irrit.	category 2	H315: Causes skin irritation.
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

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Revision number: 0302



Contains: cyclohexane; a	cetone; hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane; ethyl acetate.
Signal word	Danger
H-statements	
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
P-statements	
P101	If medical advice is needed, have product container or label at hand.
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Technische Schoolstraat 43 A, B-244	10 Geel Date of revision: 2017-05-08
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P102	Keep out of reach of children.
P241	Use explosion-proof electrical, ventilating and lighting equipment.
P261	Avoid breathing vapours/mist.
P273	Avoid release to the environment.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
	rinsing.
P403 + P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.
Supplemental information	on and a second s
	- 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
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)	Mono-constituent
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)	Mono-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)	Mono-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)	UVCB
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)	Mono-constituent
n-hexane 01-2119480412-44		110-54-3 203-777-6		Flam. Liq. 2; H225 Repr. 2; H361f Asp. Tox. 1; H304 STOT RE 2; H373 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(2)(8)(10)	Mono-constituent

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

(2) Substance with a Community workplace exposure limit

(8) Specific concentration limits, see heading 16

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

## 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 fr<mark>esh air. Respiratory problems: consul</mark>t a doctor/medical service.

#### After skin contact:

Wash immediately with lots of water. Soap may be used. Do not apply (chemical) neutralizing agents. Take victim to a doctor if irritation persists.

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#### After eye contact:

Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. 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 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:
  - Polyvalent foam. BC powder. Carbon dioxide. MAJOR FIRE: Water.
- 5.1.2 Unsuitable extinguishing media:
  - Solid water jet ineffective as extinguishing medium.

#### 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. Face-shield. 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 explosionproof appliances and lighting equipment.
  - 6.1.1 Protective equipment for non-emergency personnel See heading 8.2
  - 6.1.2 Protective equipment for emergency responders

Gloves. Face-shield. 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. Keep container tightly closed. Remove contaminated clothing immediately. Do not discharge the waste into the drain.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### 7.2.1 Safe storage requirements:

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 occupat exposure limit value)	ional 500 ppm
	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 1210 mg/m <sup>3</sup>
Butanone	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 600 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value	) 300 ppm
	Short time value (Indicative occupational exposure limit value	
Cyclohexane	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 700 mg/m <sup>3</sup>
Ethyl acetate	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 734 mg/m <sup>3</sup>
	Short time value (Indicative occupational exposure limit value	) 400 ppm
n-Hexane	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	
	Time-weighted average exposure limit 8 h (Indicative occupat exposure limit value)	ional 72 mg/m <sup>3</sup>
Belgium		
revision: 9;15	Publication date: 2007-05-09 Date of revision: 2017-05-08	
umber: 0302	Product number: 45108	4 /

Reaso

2-Butanone	Time-weighted average exposure limit 8 h Time-weighted average exposure limit 8 h	200 ppm 600 mg/m <sup>3</sup>
	Short time value	300 ppm
	Short time value	900 mg/m <sup>3</sup>
Acétate d'éthyle	Time-weighted average exposure limit 8 h	400 ppm
i cettite a ettiyle	Time-weighted average exposure limit 8 h	1461 mg/n
Acétone	Time-weighted average exposure limit 8 h	500 ppm
	Time-weighted average exposure limit 8 h	1210 mg/n
	Short time value	1000 ppm
	Short time value	2420 mg/n
Cyclohexane	Time-weighted average exposure limit 8 h	100 ppm
,	Time-weighted average exposure limit 8 h	350 mg/m <sup>3</sup>
n-Hexane	Time-weighted average exposure limit 8 h	20 ppm
	Time-weighted average exposure limit 8 h	72 mg/m <sup>3</sup>
The Netherlands		
2-Butanon	Time-weighted average exposure limit 8 h (Public occupational	197 ppm
	exposure limit value)	<b>500 m s /m</b>
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	590 mg/m
		200
	Short time value (Public occupational exposure limit value)	300 ppm
Acaton	Short time value (Public occupational exposure limit value)	900 mg/m
Aceton	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	501 ppm
	Time-weighted average exposure limit 8 h (Public occupational	1210 mg/r
	exposure limit value)	1210 mg/r
	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	
Cyclonexaan	exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Public occupational	700 mg/m
	exposure limit value)	/ 00 mg/m
	Short time value (Public occupational exposure limit value)	400 ppm
	Short time value (Public occupational exposure limit value)	1400 mg/r
n-Hexaan	Time-weighted average exposure limit 8 h (Public occupational	20 ppm
	exposure limit value)	-o pp
	Time-weighted average exposure limit 8 h (Public occupational	72 mg/m <sup>3</sup>
	exposure limit value)	0,
	Short time value (Public occupational exposure limit value)	40 ppm
	Short time value (Public occupational exposure limit value)	144 mg/m
France		1.00
Acétate d'éthyle	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	400 ppm
	Time-weighted average exposure limit 8 h (VL: Valeur non	1400 mg/r
	réglementaire indicative)	1400 mg/1
Acétone	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	e 500 ppm
	contraignante)	see ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	e 1210 mg/r
	contraignante)	/
	Short time value (VRC: Valeur réglementaire contraignante)	
		1000 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	
Cyclohexane	Short time value (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	2420 mg/r
Cyclohexane		2420 mg/r
Cyclohexane	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	2420 mg/r 200 ppm
Cyclohexane	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante) Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	2420 mg/r 200 ppm
Cyclohexane	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)	2420 mg/r 2 200 ppm 2 700 mg/m 375 ppm
	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)	2420 mg/r 200 ppm 200 mg/m 375 ppm 1300 mg/r
Cyclohexane Méthyléthylcétone	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	2420 mg/r 200 ppm 200 mg/m 375 ppm 1300 mg/r
	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)	2420 mg/r 200 ppm 200 mg/m 375 ppm 1300 mg/r 200 ppm
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	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)	2420 mg/r 200 ppm 200 mg/m 375 ppm 1300 mg/r 200 ppm 200 ppm 200 mg/m
	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)	2420 mg/r 2 200 ppm 2 700 mg/m 375 ppm 1300 mg/r 2 200 ppm 2 600 mg/m 300 ppm
Méthyléthylcétone	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) 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)	2420 mg/r 2 200 ppm 2 200 ppm 375 ppm 1300 mg/r 2 200 ppm 2 000 ppm 300 ppm 900 mg/m
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Méthyléthylcétone	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)         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)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	2420 mg/r 2 200 ppm 2 200 ppm 375 ppm 1300 mg/r 2 200 ppm 2 600 mg/m 300 ppm 900 mg/m 2 20 ppm
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Méthyléthylcétone n-Hexane	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)         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)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	2420 mg/r 2 200 ppm 2 200 ppm 375 ppm 1300 mg/r 2 200 ppm 2 00 ppm 2 00 ppm 900 mg/m 2 0 ppm
Méthyléthylcétone	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)         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)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	2420 mg/r 2 200 ppm 2 200 ppm 375 ppm 1300 mg/r 2 200 ppm 2 00 ppm 2 00 ppm 900 mg/m 2 0 ppm
Méthyléthylcétone n-Hexane Germany	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)         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)         Short time value (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	<ul> <li>200 ppm</li> <li>200 ppm</li> <li>700 mg/m</li> <li>375 ppm</li> <li>1300 mg/r</li> <li>200 ppm</li> <li>600 mg/m</li> <li>300 ppm</li> <li>900 mg/m</li> <li>20 ppm</li> </ul>
Méthyléthylcétone n-Hexane	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)         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)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Short time value (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraign	2420 mg/m 2 200 ppm 2 700 mg/m 375 ppm 1300 mg/m 2 200 ppm 2 00 ppm 900 mg/m 2 0 ppm 900 mg/m 2 20 ppm
Méthyléthylcétone n-Hexane Germany	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)         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)         Short time value (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)         Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	2420 mg/r 2 200 ppm 2 700 mg/m 375 ppm 1300 mg/r 2 200 ppm 2 600 mg/m 300 ppm 900 mg/m 2 20 ppm

Butanon Cyclohexan Ethylacetat In-Hexan UK Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate In-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate In-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005))	sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work sposur	900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 9100 900) 9100 900) 9100 900) 9100	1200 mg/r 200 ppm 600 mg/m 200 ppm 700 mg/m 1500 mg/m 1500 mg/r 50 ppm 1210 mg/r 1210 mg/r 200 ppm 3620 mg/m 300 ppm 1050 mg/m 200 ppm 1050 mg/m 200 ppm 200 ppm	
Cyclohexan Ethylacetat In-Hexan UK Acetone UK Acetone Cyclohexane Ethyl acetate In-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate In-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) In-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla	sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work sposur	900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 900) 9100 900) 9100 900) 9100 900) 9100	600 mg/m 200 ppm 700 mg/m 400 ppm 1500 mg/m 50 ppm 180 mg/m 180 mg/m 1210 mg/r 1500 ppm 3620 mg/m 3620 mg/m 3600 ppm 300 ppm 100 ppm 350 mg/m 200 ppm	
Ethylacetat         n-Hexan         UK         Acetone         Butan-2-one (methyl ethyl keton         Cyclohexane         Ethyl acetate         n-Hexane         USA (TLV-ACGIH)         Acetone         Cyclohexane         Ethyl acetate         n-Hexane         USA (TLV-ACGIH)         Acetone         Cyclohexane         Ethyl acetate         Methyl ethyl ketone (MEK)         n-Hexane         D) National biological limit valu         If limit values are applicable and         Germany         Aceton (Aceton)         Butanon (2-Butanon; Ethylmeth         Butanon (2-Butanon))         Cyclohexan (1,2-Cyclohexandiol         Hydrolyse))	one)	Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla	sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work	900) 900) 900) 900) 900) 900) 900) 900) 900) 9100 900) 9100 900) 9100	200 ppm 700 mg/m 400 ppm 1500 mg/m 50 ppm 180 mg/m 1210 mg/r 1210 mg/r 1500 ppm 3620 mg/m 3620 mg/m 3600 ppm 300 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm	
Ethylacetat         n-Hexan         UK         Acetone         Butan-2-one (methyl ethyl keton         Cyclohexane         Ethyl acetate         n-Hexane         USA (TLV-ACGIH)         Acetone         Cyclohexane         Ethyl acetate         n-Hexane         USA (TLV-ACGIH)         Acetone         Cyclohexane         Ethyl acetate         Methyl ethyl ketone (MEK)         n-Hexane         D) National biological limit valu         If limit values are applicable and         Germany         Aceton (Aceton)         Butanon (2-Butanon; Ethylmeth         Butanon (2-Butanon))         Cyclohexan (1,2-Cyclohexandiol         Hydrolyse))	:one)	Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Time-weighted average ex         (EH40/2005))	sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work	900) 900) 900) 900) 900) 900) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	700 mg/m 400 ppm 1500 mg/m 50 ppm 180 mg/m 500 ppm 1210 mg/r 1210 mg/r 1210 mg/r 200 ppm 3620 mg/m 300 ppm 300 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm	
n-Hexan UK Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon); Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Time-weighted average ex         (EH40/2005))	sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work	900) 900) 900) 900) 900) 900) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	400 ppm 1500 mg/r 50 ppm 180 mg/m 500 ppm 1210 mg/r 1210 mg/r 1200 ppm 3620 mg/m 3620 mg/m 300 ppm 300 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm	
n-Hexan UK Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon); Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla	xposure limit 8 h (TRGS xposure limit 8 h (Work xposure limit 8 h (Work	900) 900) 900) 900) 900) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	1500 mg/r 50 ppm 180 mg/m 500 ppm 1210 mg/r 1210 mg/r 1500 ppm 3620 mg/m 200 ppm 300 ppm 300 ppm 350 mg/m 350 mg/m 200 ppm	
n-Hexan UK Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon); Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Time-weighted	sposure limit 8 h (TRGS sposure limit 8 h (TRGS sposure limit 8 h (TRGS sposure limit 8 h (TRGS sposure limit 8 h (Work sposure limit 8 h (Work	900) 900) 900) 900) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	1500 mg/r 50 ppm 180 mg/m 500 ppm 1210 mg/r 1210 mg/r 1500 ppm 3620 mg/m 200 ppm 300 ppm 300 ppm 350 mg/m 350 mg/m 200 ppm	
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UK Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla	xposure limit 8 h (TRGS xposure limit 8 h (Work xposure limit 8 h (Work acce exposure limit (EH4 xposure limit 8 h (Work xposure limit 8 h (Work	900) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	180 mg/m 500 ppm 1210 mg/r 1500 ppm 3620 mg/r 200 ppm 600 mg/m 300 ppm 300 ppm 350 mg/m 350 mg/m 200 ppm	
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Acetone Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion	one)	(EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex </td <td>kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit 1 (EH4 kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work ice exposure limit 8 h (Work ice exposure limit 8 h (Work</td> <td>place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit</td> <td>1210 mg/r 1210 mg/r 3620 mg/r 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm</td>	kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit 1 (EH4 kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work ice exposure limit 8 h (Work ice exposure limit 8 h (Work	place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	1210 mg/r 1210 mg/r 3620 mg/r 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm	
Butan-2-one (methyl ethyl ketor Cyclohexane Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane D) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse))	one)	(EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex </td <td>kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit 1 (EH4 kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work ice exposure limit 8 h (Work ice exposure limit 8 h (Work</td> <td>place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit</td> <td>1210 mg/r 1200 ppm 3620 mg/r 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm</td>	kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work kposure limit 8 h (Work ice exposure limit 1 (EH4 kposure limit 8 h (Work ice exposure limit (EH4 kposure limit 8 h (Work ice exposure limit 8 h (Work ice exposure limit 8 h (Work	place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	1210 mg/r 1200 ppm 3620 mg/r 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm	
Cyclohexane  Ethyl acetate  n-Hexane  USA (TLV-ACGIH)  Acetone  Cyclohexane Ethyl acetate  Methyl ethyl ketone (MEK)  n-Hexane  b) National biological limit valu If limit values are applicable and Germany  Aceton (Aceton)  Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)))  Cyclohexan (1,2-Cyclohexandiol Hydrolyse))  Hexan (n-Hexan) (2,5-Hexandiol	one)	(EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex	ace exposure limit (EH4 sposure limit 8 h (Work sposure limit 8 h (Work sposure limit 8 h (Work ace exposure limit (EH4 sposure limit 8 h (Work sposure limit 8 h (Work sposure limit 8 h (Work ace exposure limit (EH4 sposure limit 8 h (Work ace exposure limit 8 h (Work sposure limit 8 h (Work	0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	1500 ppm 3620 mg/r 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm	
Cyclohexane  Ethyl acetate  n-Hexane  USA (TLV-ACGIH)  Acetone  Cyclohexane Ethyl acetate  Methyl ethyl ketone (MEK)  n-Hexane  b) National biological limit valu If limit values are applicable and Germany  Aceton (Aceton)  Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)))  Cyclohexan (1,2-Cyclohexandiol Hydrolyse))  Hexan (n-Hexan) (2,5-Hexandiol	:one)	Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         Time-weighted average ex         (EH40/2005))         Time-weighted average ex	ace exposure limit (EH4 posure limit 8 h (Work posure limit 8 h (Work ace exposure limit (EH4 posure limit 8 h (Work posure limit 8 h (Work posure limit 8 h (Work ace exposure limit (EH4 posure limit 8 h (Work ace exposure limit 8 h (Work posure limit 8 h (Work	0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	3620 mg/m 200 ppm 600 mg/m 300 ppm 100 ppm 350 mg/m 300 ppm 1050 mg/m 200 ppm 400 ppm	
Cyclohexane  Ethyl acetate  n-Hexane  USA (TLV-ACGIH)  Acetone  Cyclohexane Ethyl acetate  Methyl ethyl ketone (MEK)  n-Hexane  b) National biological limit valu If limit values are applicable and Germany  Aceton (Aceton)  Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)))  Cyclohexan (1,2-Cyclohexandiol Hydrolyse))  Hexan (n-Hexan) (2,5-Hexandiol	:one)	Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         Time-weighted average ex         (EH40/2005))         Time-weighted average ex	ace exposure limit (EH4 posure limit 8 h (Work posure limit 8 h (Work ace exposure limit (EH4 posure limit 8 h (Work posure limit 8 h (Work posure limit 8 h (Work ace exposure limit (EH4 posure limit 8 h (Work ace exposure limit 8 h (Work posure limit 8 h (Work	0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) place exposure limit 0/2005)) place exposure limit	3620 mg/r 200 ppm 600 mg/m 300 ppm 899 mg/m 100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm	
Cyclohexane  Ethyl acetate  n-Hexane  USA (TLV-ACGIH)  Acetone  Cyclohexane Ethyl acetate  Methyl ethyl ketone (MEK)  n-Hexane  b) National biological limit valu If limit values are applicable and Germany  Aceton (Aceton)  Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)))  Cyclohexan (1,2-Cyclohexandiol Hydrolyse))  Hexan (n-Hexan) (2,5-Hexandiol	one)	Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005))	xposure limit 8 h (Work xposure limit 8 h (Work ace exposure limit (EH4 xposure limit 8 h (Work xposure limit 8 h (Work xposure limit 8 h (Work ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit 8 h (Work ace exposure limit 8 h (Work	place exposure limit place exposure limit o/2005)) o/2005)) place exposure limit place exposure limit o/2005)) o/2005)) place exposure limit o/2005)) place exposure limit	200 ppm 600 mg/m 300 ppm 899 mg/m 100 ppm 350 mg/m 300 ppm 1050 mg/n 200 ppm	
Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	ace exposure limit (EH4 ace exposure limit (EH4 aposure limit 8 h (Work aposure limit 8 h (Work ace exposure limit 8 h (Work ace exposure limit (EH4 aposure limit 8 h (Work ace exposure limit 8 h (Work	0/2005)) 0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit	300 ppm 899 mg/m 100 ppm 350 mg/m 300 ppm 1050 mg/n 200 ppm 400 ppm	
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Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))         Short time value (Workpla         Short time value (Workpla         Time-weighted average ex         (EH40/2005))         Time-weighted average ex         (EH40/2005))	ace exposure limit (EH4 xposure limit 8 h (Work xposure limit 8 h (Work ace exposure limit (EH4 ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit 8 h (Work	0/2005)) place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit	899 mg/m 100 ppm 350 mg/m 300 ppm 1050 mg/n 200 ppm 400 ppm	
Ethyl acetate n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Time-weighted average ex (EH40/2005)) Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	xposure limit 8 h (Work xposure limit 8 h (Work ace exposure limit (EH4 ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit 8 h (Work	place exposure limit place exposure limit 0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit	100 ppm 350 mg/m 300 ppm 1050 mg/r 200 ppm 400 ppm	
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n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Time-weighted average ex (EH40/2005)) Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	ace exposure limit (EH4 ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit 8 h (Work xposure limit 8 h (Work	0/2005)) 0/2005)) place exposure limit 0/2005)) place exposure limit	300 ppm 1050 mg/r 200 ppm 400 ppm	
n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Short time value (Workpla Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit (EH4 xposure limit 8 h (Work	0/2005)) place exposure limit 0/2005)) place exposure limit	1050 mg/r 200 ppm 400 ppm	
n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Short time value (Workpla Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	ace exposure limit (EH4 xposure limit 8 h (Work ace exposure limit (EH4 xposure limit 8 h (Work	0/2005)) place exposure limit 0/2005)) place exposure limit	1050 mg/r 200 ppm 400 ppm	
n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Time-weighted average ex (EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	kposure limit 8 h (Work nce exposure limit (EH4 kposure limit 8 h (Work	place exposure limit 0/2005)) place exposure limit	200 ppm 400 ppm	
n-Hexane USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		(EH40/2005)) Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	ace exposure limit (EH4 kposure limit 8 h (Work	0/2005)) place exposure limit	400 ppm	
USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Short time value (Workpla Time-weighted average ex (EH40/2005)) Time-weighted average ex	kposure limit 8 h (Work	place exposure limit		
USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Time-weighted average ex (EH40/2005)) Time-weighted average ex	kposure limit 8 h (Work	place exposure limit		
USA (TLV-ACGIH) Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		(EH40/2005)) Time-weighted average ex			20 ppm	
Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol			kposure limit 8 h (Work	place exposure limit	1	
Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol			Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))			
Acetone Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol					1	
Cyclohexane Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol					1	
Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Time-weighted average ex		Adopted Value)	250 ppm	
Ethyl acetate Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Short time value (TLV - Ad			500 ppm	
Methyl ethyl ketone (MEK) n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Time-weighted average ex	posure limit 8 h (TLV -	Adopted Value)	100 ppm	
n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Time-weighted average ex	posure limit 8 h (TLV -	Adopted Value)	400 ppm	
n-Hexane b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion		Time-weighted average ex	posure limit 8 h (TLV -	Adopted Value)	200 ppm	
b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Short time value (TLV - Ad	opted Value)		300 ppm	
b) National biological limit valu If limit values are applicable and Germany Aceton (Aceton) Butanon (2-Butanon; Ethylmeth (Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol		Time-weighted average ex		Adonted Value)	50 ppm	
(Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol	nd available these will be listed	below. Ide, bzw. schichtende	80 mg/l	11/2012 Ständige Se		
(Butanon (2-Butanon)) Cyclohexan (1,2-Cyclohexandiol Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandiol				Prüfung gesundheits Arbeitsstoffe der DFC		
Hydrolyse)) Hexan (n-Hexan) (2,5-Hexandion	thylketon) Urin: expositionsend	ide, bzw. schichtende	2 mg/l	05/2015 DFG		
	ol (nach Urin: bei langzeitexp vorangegangenen si expositionsende, bz		150 mg/g Kreatini	n 11/2012 Ständige Se Prüfung gesundheits Arbeitsstoffe der DFG	schädlicher	
4,5-Dihydroxy-2-Hexanon (nach Hydrolyse))		ide, bzw. schichtende	5 mg/l	5/2013 Ständige Senatskommissio Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG		
UK						
Butan-2-one (butan-2-one)	Urine: post shift		70 μmol/L	1		
	onne, post snint		γομπογε			
USA (BEI-ACGIH)						
Acetone (Acetone)	Urine: end of shift		20 mg/L	Nonspecific - Intende	ed changes	
Acetone (Acetone)	Urine: end of shift	7	25 mg/L		-	
Methyl ethyl ketone (MEK)			2 mg/L			
n-Hexane (2,5-Hexanedion)	urine: end of shift	at and at worldwood	0.4 mg/1			
revision: 9;15		at end of workweek	0,4 mg/L			

If applicable and available it will b	a listed hole			
2 Butanona (NAEK) (NA-thul athul		NIOSU	2500	
2-Butanone (MEK) (Methyl ethyl 2-Butanone (Methyl ethyl ketone		NIOSH OSHA	2500 84	
2-Butanone (organic and inorgan		NIOSH	3800	
2-Butanone (Volatile Org <mark>anic con</mark>		NIOSH	2549	
2-Butanone		OSHA	1004	
2-Butanone		OSHA	13	
Acetone (ketones 1)		NIOSH	1300	
Acetone (ketones I)		NIOSH	2555	
Acetone (organic and inorganic g Acetone (Volatile Organic compo		NIOSH NIOSH	3800 2549	
ACETONE and METHYL ETHYL KE		NIOSH	8319	
Acetone		OSHA	69	
Cyclohexane (Hydrocarbons, BP3	6 to 126C)	NIOSH	1500	
Cyclohexane		NIOSH	95-117	
Cyclohexane		OSHA	7	
Ethyl acetate (Volatile Organic co	mpounds)	NIOSH	2549	
Ethyl Acetate		NIOSH OSHA	1457	
MEK		NIOSH	8002	
Methyl Ethyl Ketone (ketones I)		NIOSH	2555	
Methyl Ethyl Ketone		OSHA	16	
n-Hexane (Hydrocarbons, BP36 to	o 126C)	NIOSH	1500	
n-Hexane (organic and in <mark>organic</mark>	gases by Extractive FTIR)	NIOSH	3800	
n-Hexane (Volatile Organ <mark>ic comp</mark>	ounds)	NIOSH	2549	
n-Hexane n-Hexane		NIOSH OSHA	95-117	
.1.3 Applicable limit values when u If limit values are applicable and				
DNEL/DMEL - Workers cyclohexane Effect level (DNEL/DMEL)	Туре		Value	Remark
DNIEL			700 / 3	
DNEL	Long-term systemic effect		700 mg/m <sup>3</sup>	
DNEL	Acute systemic effects inh	alation	700 mg/m <sup>3</sup>	
DNEL		halation halation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup>	
DNEL	Acute systemic effects inh Long-term local effects inl	alation halation ion	700 mg/m <sup>3</sup>	
acetone	Acute systemic effects inh Long-term local effects inh Acute local effects inhalat Long-term systemic effect	alation halation ion	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day	
acetone Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inh Acute local effects inhalat Long-term systemic effect	alation halation ion is dermal	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value	Remark
acetone	Acute systemic effects inh Long-term local effects inh Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect	alation halation ion is dermal is inhalation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup>	Remark
acetone Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inh Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat	alation halation ion s dermal s inhalation ion	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup>	Remark
acetone Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inh Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect	alation halation ion s dermal s inhalation ion	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup>	Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Long-term systemic effect Cong-term systemic effect Acute local effects inhalat Long-term systemic effect	alation halation ion is dermal is inhalation ion is dermal	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value	Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect	alation halation ion is dermal is inhalation ion is dermal is inhalation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup>	
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value	
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL DNEL hydrocarbons, C6-C7, n-alkanes,	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect Long-term systemic effect Long-term systemic effect Soalkanes, cyclics, < 5% n-hexa	alation halation ion is dermal is inhalation is dermal is inhalation is dermal	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup> 1161 mg/kg bw/day	Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal ine	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup>	
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Type Long-term systemic effect Long-term systemic effect Long-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal ine is inhalation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup> 1161 mg/kg bw/day	Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal ine is inhalation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup> 1161 mg/kg bw/day Value 2035 mg/m <sup>3</sup> 773 mg/kg bw/day	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup> 1161 mg/kg bw/day Value 2035 mg/m <sup>3</sup> 773 mg/kg bw/day	Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal ine is inhalation is dermal is inhalation	700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 700 mg/m <sup>3</sup> 2016 mg/kg bw/day Value 1210 mg/m <sup>3</sup> 2420 mg/m <sup>3</sup> 186 mg/kg bw/day Value 600 mg/m <sup>3</sup> 1161 mg/kg bw/day Value 2035 mg/m <sup>3</sup> 773 mg/kg bw/day	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL Nydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day 2016 mg/kg bw/day 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation halation	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day Value 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³ 734 mg/m³	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Acute local effects inhalat Long-term systemic effect Long-term systemic effects inh Long-term local effects inh	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation halation ion	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day 2016 mg/kg bw/day 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL) DNEL n-hexane	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Acute local effects inhalat Long-term systemic effect Long-term systemic effects inh Long-term local effects inhalat	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation halation ion	700 mg/m³         700 mg/m³         700 mg/m³         700 mg/m³         2016 mg/kg bw/day         Value         1210 mg/m³         2420 mg/m³         186 mg/kg bw/day         Value         600 mg/m³         1161 mg/kg bw/day         Value         2035 mg/m³         773 mg/kg bw/day         Value         734 mg/m³         1468 mg/m³         1468 mg/m³         63 mg/kg bw/day	Remark Remark Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL) DNEL n-hexane Effect level (DNEL/DMEL)	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effects inh Long-term local effects inhalat Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation halation ion is dermal	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day 2016 mg/kg bw/day 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³ 734 mg/m³ 1468 mg/m³ 63 mg/kg bw/day	Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL Nvdrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL) DNEL n-hexane	Acute systemic effects inh Long-term local effects inhalat Long-term systemic effect Type Long-term systemic effect Acute local effects inhalat Long-term systemic effect Cong-term systemic effect Long-term systemic effects inh Long-term local effects inhalat Long-term systemic effect Ing-term systemic effect Long-term systemic effect Long-term systemic effect Long-term systemic effects inhalat Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation ion is dermal is inhalation is dermal is inhalation is dermal	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day 2016 mg/kg bw/day 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³ 1468 mg/m³ 1468 mg/m³ 63 mg/kg bw/day	Remark Remark Remark Remark Remark
acetone Effect level (DNEL/DMEL) DNEL butanone Effect level (DNEL/DMEL) DNEL hydrocarbons, C6-C7, n-alkanes, Effect level (DNEL/DMEL) DNEL ethyl acetate Effect level (DNEL/DMEL) DNEL n-hexane Effect level (DNEL/DMEL)	Acute systemic effects inh         Long-term local effects inhalat         Long-term systemic effect         Type         Long-term systemic effect         Acute local effects inhalat         Long-term systemic effect         Acute local effects inhalat         Long-term systemic effect         Acute local effects inhalat         Long-term systemic effect         Ing-term systemic effect         Long-term systemic effects inhalat         Long-term local effects inhalat         Long-term systemic effect         Acute local effects inhalat         Long-term systemic effect         Type         Long-term systemic effect         Acute local effects inhalat         Long-term systemic effect         Long-term systemic effect	alation halation ion is dermal is inhalation is dermal is inhalation is dermal is inhalation is dermal is inhalation halation ion is dermal is inhalation is dermal is inhalation is dermal	700 mg/m³ 700 mg/m³ 700 mg/m³ 2016 mg/kg bw/day 2016 mg/kg bw/day 1210 mg/m³ 2420 mg/m³ 186 mg/kg bw/day Value 600 mg/m³ 1161 mg/kg bw/day Value 2035 mg/m³ 773 mg/kg bw/day Value 734 mg/m³ 1468 mg/m³ 734 mg/m³ 1468 mg/m³ 63 mg/kg bw/day	Remark Remark Remark Remark Remark

Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL		emic effects inhalation	206 mg/m <sup>3</sup>		
DIVLE		effects inhalation	412 mg/m <sup>3</sup>		
		l effects inhalation			
	Acute local effects inhalation		412 mg/m <sup>3</sup>		
				bw/day	
	Long-term systemic effects dermal Long-term systemic effects oral		1186 mg/kg bw/day 59.4 mg/kg bw/day		
	LONG-LEITH SYSL		59.4 mg/kg	Dw/uay	
cetone Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	21	emic effects dermal			Remark
DINEL			62 mg/kg b	w/uay	
		emic effects inhalation	200 mg/m <sup>3</sup>		
	Long-term syst	emic effects oral	62 mg/kg by	w/day	
utanone			here a		Demont
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL		emic effects inhalation	106 mg/m <sup>3</sup>	<i>.</i>	
		emic effects dermal	412 mg/kg l		
		emic effects oral	31 mg/kg by	w/day	
/drocarbons, C6-C7, n-alkanes,		5% n-hexane			
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL		l effects inhalation	608 mg/m <sup>3</sup>		
		<mark>emic effec</mark> ts dermal	699 mg/kg l		
	Long-term syst	<mark>emic effec</mark> ts oral	699 mg/kg l	ow/day	
hyl acetate					
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term syst	emic effects inhalation	367 mg/m³		
		effects inhalation	734 mg/m <sup>3</sup>		
	Long-term loca	l effects inhalation	367 mg/m <sup>3</sup>		
	Acute local effe	ects inhalation	734 mg/m <sup>3</sup>		
	Long-term syst	emic effects dermal	37 mg/kg b	w/day	
		emic effects oral	4.5 mg/kg b		
hexane	0 /		0, 0	. ,	
Effect level (DNEL/DMEL)	Туре		Value	Value	
DNEL	21	emic effects inhalation	16 mg/m <sup>3</sup>		Remark
		emic effects dermal	5.3 ng/kg by	w/day	
		Long-term systemic effects oral		/day	
NEC	Long term syst		1116/16	, ady	
rclohexane					
Compartments		Value		Remark	
Fresh water		0.207 mg/l		Kennark	
Marine water		0.207 mg/l			
				-	
Aqua (intermittent releases)		0.207 mg/l			
STP		3.24 mg/l			
Fresh water sediment		3.627 mg/kg sediment dw			
Marine water sediment		3.627 mg/kg sediment dw			
Soil		2.99 mg/kg soil dw			
cetone				<u> </u>	
Compartments		Value		Remark	
Fresh water		10.6 mg/l		L	
Marine water		1.06 mg/l			
Fresh water sediment		30.4 mg/kg sediment dw			
Marine water sediment		3.04 mg/kg sediment dw			
Soil		29.5 mg/kg soil dw			
STP		100 mg/l		2	
utanone					
Compartments		Value		Remark	
Fresh water		55.8 mg/l			
Marine water		55.8 mg/l			
Aqua (intermittent rele <mark>ases)</mark>		55.8 mg/l			
STP		709 mg/l			
Fresh water sediment		284.74 mg/kg sediment dw		-	
Marine water sediment		284.7 mg/kg sediment dw		1	
Soil		22.5 mg/kg soil dw			
Food		1000 mg/kg food			
		7			

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Compartments	Value	Remark	
Fresh water	0.24 mg/l		
Marine water	0.024 mg/l		
Aqua (intermittent rele <mark>ases)</mark>	1.65 mg/l		
STP	650 mg/l		
Fresh water sediment	1.15 mg/kg sediment dw		
Marine water sediment	0.115 mg/kg sediment dw		
Soil	0.148 mg/kg soil dw		
Dral	0.2 g/kg food		

### 8.1.5 Control banding

If applicable and available it will be listed below.

#### 8.2. Exposure controls

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

#### 8.2.1 Appropriate engineering controls

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

#### 8.2.2 Individual protection measures, such as personal protective equipment

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

#### a) Respiratory protection:

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

#### b) Hand protection:

Gloves.

#### 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	Viscous
Odour	Characteristic odour
Odour threshold	No data available
Colour	Colourless
Particle size	No data available
Explosion limits	<mark>1 - 7.4 vol %</mark>
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	<mark>&lt; -50 °C ; 1013</mark> hPa
Boiling point	<mark>60 °C - 95 °C ;</mark> 1013 hPa
Flash point	<mark>-25 °C ; 1013 h</mark> Pa
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	<mark>240 hPa ; 20 °C</mark>
Solubility	Water ; 0.02 g/100 ml ; 20 °C
Relative density	0.86
Decomposition temperature	No data available
Auto-ignition temperature	<mark>260 °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
Other information	
Absolute density	860 kg/m <sup>3</sup>

## 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.

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Revision number: 0302

### 10.3. Possibility of hazardous reactions

No data available.

#### 10.4. Conditions to avoid

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

oute of exposure	Parame	eter M	ethod Va	lue	E	xposure time	Species	Value determination	Remark
Dral	LC50		≥ 2	2000 mg/k	g bw		Rat	Calculated value	
Dermal	LD50		≥ 2	2000 mg/k	g bw		Rabbit	Calculated value	
nhalation	LC50		≥ 5	mg/l/4h			Rat	Calculated value	
nhalation (vapours)	ATE		5 r	ng/l/4h				Calculated value	
nhalation (mist)	ATE		5 r	ng/l/4h				Calculated value	
vclohexane									
Route of exposure	e Para	ameter	Method	Value		Exposure time	Species	Value determination	Remark
Oral	LD5	0	Equivalent to OECD 401	> 5000 m	ig/kg bw		Rat (male/femal	le) Experimental val	ue
Dermal	LD5	0	Equivalent to OECD 402	> 2000 m	ig/kg bw		Rabbit (male/female)	Experimental val	ue
Inhalation (vapour	rs) LC5	0	Equivalent to OECD 403	> 32.88 n	ng/l air	4 h	Rat (male/femal	le) Experimental val	ue
Inhalation (vapour	rs) LC5	0	Equivalent to OECD 403	> 19.07 n	ng/l	4 h	Rat (male/femal	e) Experimental val	ue
licetone									
Route of exposure	e Para	ameter	Method	Value		Exposure time	Species	Value determination	Remark
Oral	LD5	0	Equivalent to OECD 401	5800 mg	/kg		Rat (female)	Experimental val	ue
Dermal	LD5	0	Equivalent to OECD 402	20000 m	g/kg		Rabbit (male)	Experimental val	ue
Inhalation (vapour	rs) LC5	0	Other	76 mg/l		4 h	Rat (female)	Experimental val	ue
Inhalation (vapour	rs) LCL	)	Other	16000 pp	m	4 h	Rat	Experimental val	ue
outanone									
Route of exposure	e Para	ameter	Method	Value		Exposure time	Species	Value	Remark

Route of exposure	raiai	netei	Method	value	Exposure time	species	determination	Kellidik
Oral	LD50		Equivalent to OECD 423	2193 mg/kg bw		Rat (male/female)	Read-across	
Dermal	LD50		Equivalent to OECD 402	> 10 ml/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)							Data waiving	
drocarbons, C6-C7, n-a	Ikanes	s, isoall	kanes, cyclics, < 5% n-	hexane				

Species Route of exposure Parameter Method Value Exposure time Value Remark determination Oral LD50 Other <mark>> 5840 m</mark>g/kg bw Rat (male/female) Read-across Dermal 24 week(s) Similar product I D50 Other <mark>> 2800 m</mark>g/kg bw Rat (male/female) Inhalation (vapours) LC50 Other > 25.2 mg/l 4 h Rat (male/female) Experimental value

#### ethyl acetat

Route of exposure	Para	meter	Method	Value	Exposure time		Value determination	Remark
Oral	LD50	)	Equivalent to OECD 401	10200 mg/kg bw		Rat (female)	Experimental value	
Dermal	LD50	)	24 hour cuff method	<mark>&gt; 20000</mark> mg/kg bw	24 h	Rabbit (male)	Experimental value	
Inhalation (vapours)	LC0		Equivalent to OECD 403	29.3 mg/l	4 h	Rat	Experimental value	

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n-hexane Route of exposure	e Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	16000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD	> 3350 mg/kg bw	4 h	Rabbit (male)	Read-across	
Inhalation (vapour	s) LC50	Equivalent to OECD 403	<mark>&gt; 5000 p</mark> pm	24 h	Rat (male)	Experimental value	
ludgement of the mixt Inclusion			ture as a whole				
Not classified for acute	e toxicity						
sion/irritation							
dal Thixotropic Contac No (test)data on the m cyclohexane							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Slightly <mark>irritatir</mark>	ng Equivalent to OECD 405		1 hour	Rabbit	Experimental value	2
Skin	Not irritating	EU Method B.4	4 h	24; 48; 72 hours	Rabbit	Experimental value	2
Inhalation	Irritating					Literature study	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
Eye	Irritatin <mark>g</mark>	OECD 405		24; 48; 72 hours	Rabbit	determination Weight of evidence	e
Skin	Not irritating	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
Inhalation	Slightly <mark>irritatir</mark>	ng Human observation stu	20 minutes dy		Human	Literature	
outanone							•
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritatin <mark>g</mark>	Equivalent to OECD 405		24; 72 hours	Rabbit	Experimental value	e Single expos
Skin	Not irrit <mark>ating</mark>	OECD 404	<mark>4 h</mark>	4; 24; 48; 72 hou	rs Rabbit	Read-across	
hydrocarbons, C6-C7, I		kanes, cyclics, < 5% n Method	<u>hexane</u> Exposure time	Time neint	Creation	Value	Remark
Route of exposure			Exposure time	Time point	Species	determination	Keinaik
Eye Skin	Not irrit <mark>ating</mark> Irritating	Other Equivalent to	4 h	24; 48; 72 hours	Rabbit Rabbit	Read-across Experimental value	
Skin	inntating	OECD 404		24, 40, 72 110013	Rubbit	Experimental value	-
ethyl acetate	Desult	Mathad	Europuro timo	Time neint	Creation	Value	Domork
Route of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Annex VI	
Skin	Slightly <mark>irritatin</mark>	ng Equivalent to OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value	2
n-hexane		0100 101					
Route of exposure		Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irrit <mark>ating</mark>	Equivalent to OECD 405		72 hours	Rabbit	Read-across	
Skin	Irritating	Equivalent to OECD 404	24 h	24; 72 hours	Rabbit	Read-across	
Classification is based	on the relevant	ingredients					·
Causes skin irritation. Causes serious eye irri	tation.						
Not classified as irritat	ing to th <mark>e respi</mark>	ratory system					
ratory or skin sensitis	ation						
dal Thixotropic Contac No (test)data on the m							
n for revision: 9;15					Publication date: 20	007-05-09	
					Date of revision: 20		

		<b>.</b>		-			h .	he	<b>.</b> .
Route of exposure		Method		Exposu	re time	Observation time point	Species	Value determination	Remark
	Not sensitizi	ng EU Methoo	I B.6			24; 48 hours	Guinea pig (male/female)	Experimental value	
Route of exposure	Result	Method		Exposu	re time	Observation time point	Species	Value determination	Remark
Skin	Not sens <mark>itizi</mark>	ng Human ob	ervation				Human	Literature	
outanone	Dest	<b>N A</b> - 12		-		Ohee	Creation	Mahua datam tati	Damarda
Route of exposure		Method		Exposu	retime	Observation time point	Species	Value determination	Remark
	Not sensitizi					24; 48 hours	Guinea pig (female)	Experimental value	
Route of exposure		Method	<u>, &lt; 5% n-n</u> i	<u>Exposu</u>	re time		Species	Value determination	Remark
Skin	Not sens <mark>itiz</mark> i	ng Equivalent 406	to OECD			point 24; 48 hours	Guinea pig	Read-across	
ethyl acetate		406					(male/female)		
Route of exposure	Result	Method		Exposu	re time	Observation time	Species	Value determination	Remark
		0505 105				point	·		
	Not sensitizi	ng OECD 406				24; 48 hours	Guinea pig (female)	Experimental value	
<u>n-hexane</u>	Posult	Method		Expect	ro timo	Observation time	Species	Value dotormination	Pomark
Route of exposure				Exposu	e ume	Observation time point	Species	Value determination	Remark
	Not sensitizi	429	to OECD				Mouse	Read-across	
udgement is based o	n the releva	nt ingredients							
o (test)data on the m	i <u>ct Adhesive</u> ixture availal								
. ,	ixture availal	ble	Value		Organ	Effect	Exposure time	Species	Value
cyclohexane	ixture availal	ble	Value		Organ	Effect	Exposure time	Species	determinatio
Cyclohexane Route of exposur Oral Dermal	e Paramete	Method			Organ				determination Data waiving Data waiving
Cyclohexane Route of exposur Oral Dermal Inhalation	ixture availal	Method EPA OPPTS	Value 7000 p	om	Organ	Effect No effect	13 weeks (6h/c	lay, 5 Rat	determination Data waiving Data waiving Experimenta
Oral Dermal Inhalation (vapours)	e Paramete	Method		om	Organ				determination Data waiving Data waiving
Oral Dermal Inhalation (vapours)	e Paramete NOAEC	Method EPA OPPTS 870.3465		om	Organ		13 weeks (6h/c	lay, 5 Rat (male/female)	determination Data waiving Data waiving Experimenta
cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Route of exposur	e Paramete NOAEC	Method EPA OPPTS 870.3465	7000 pr			No effect Effect	13 weeks (6h/c days/week) Exposure time	lay, 5 Rat (male/female) Species	determinatic Data waiving Data waiving Experimenta value Value determinatic
Oral Dermal Inhalation (vapours)	e Paramete NOAEC	Method EPA OPPTS 870.3465	7000 p			No effect	13 weeks (6h/c days/week)	lay, 5 Rat (male/female)	determinatic Data waiving Data waiving Experimental value Value determinatic Experimental value
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cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Dermal         Inhalation         Inhalation	e Paramete NOAEC	Method EPA OPPTS 870.3465	7000 pr			No effect Effect	13 weeks (6h/c days/week) Exposure time	lay, 5 Rat (male/female) Species Mouse	determinatic Data waiving Data waiving Experimental value Value determinatic Experimental value
cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Oral         Dermal	e Paramete NOAEC	Method Final Content of the second se	7000 p 7000 p Value 20 mg/	l opm	Organ	No effect Effect No effect	13 weeks (6h/c days/week) Exposure time 13 week(s)	lay, 5 Rat (male/female) Species Mouse (male/female)	determinatic Data waiving Data waiving Experimental value Value determinatic Experimental value Not relevant, expert
vyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Dermal         Inhalation         (vapours)	e Paramete NOAEC	Method Final Content of the second se	Value 20 mg/ 19000 p	l opm	Organ	Effect No effect No effect No effect No effect	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male)	determinatic Data waiving Data waiving Experimenta value Value Experimenta value Not relevant, expert Literature Inconclusive,
vclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Route of exposur         Oral         Dermal         Inhalation         (vapours)	e Paramete NOAEC NOAEL NOAEL NOAEL	Method EPA OPPTS 870.3465 Method Equivalent to OECD 408 Other Other Human observation study	Value 20 mg/ 19000 p	l opm	Organ	Effect No effect No effect No effect No effect No effect ervous neurotoxic	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male)	determinatic Data waiving Data waiving Experimental value Value determinatic Experimental value Not relevant, expert Literature
cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Oral         Dermal         Inhalation         (vapours)         acetone         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)	e Paramete NOAEC NOAEL NOAEL NOAEL	Method EPA OPPTS 870.3465 Method Equivalent to OECD 408 Other Other Human observation study	Value 20 mg/ 19000 p	l opm	Organ	Effect No effect No effect No effect No effect No effect ervous neurotoxic	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male)	determinatic Data waiving Data waiving Experimental value Value Experimental value Not relevant, expert Literature Inconclusive,
cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Route of exposur         Oral         Dermal         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Outanone         Route of exposur         Oral	e Paramete NOAEC NOAEL NOAEL NOAEL	Method EPA OPPTS 870.3465 Method Equivalent to OECD 408 Other Other Human observation study	Value 20 mg/ 19000 p 361 pp	l opm	Organ Central n system	No effect Effect No effect No effect ervous neurotoxic effects	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)         2 day(s)	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male) Human	determinatic Data waiving Data waiving Experimental value Value Value Not relevant, expert Literature Inconclusive, insufficient d Value determinatic Data waiving
cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Route of exposur         Oral         Dermal         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Dutanone         Route of exposur         Oral         Dermal	e Paramete NOAEC NOAEC NOAEL NOAEL NOAEL NOAEL	Method EPA OPPTS 870.3465 Method Equivalent to OECD 408 Other Other Human observation study	Value 20 mg/ 19000 p 361 pp	ppm n	Organ Central n system	Effect  Vo effect  No effect  No effect  ervous neurotoxic effects  Effect	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)         2 day(s)         Exposure time         Image: state	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male) Human Species	determinatic Data waiving Data waiving Experimental value Value Value Not relevant, expert Literature Inconclusive, insufficient d Value determinatic Data waiving Data waiving
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cyclohexane         Route of exposur         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Dermal         Inhalation         (vapours)         acetone         Oral         Dermal         Inhalation         (vapours)         Inhalation         (vapours)         Dutanone         Oral         Dermal         Inhalation         (vapours)         Dutanone         Oral         Dermal         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)         Inhalation         (vapours)	e Paramete NOAEC NOAEC NOAEL NOAEL NOAEL NOAEL	Method  EPA OPPTS 870.3465  EPA OPPTS 870.3465  Method  Equivalent to OECD 408  Other  Human observation study  Method  Equivalent to Other	Value 20 mg/ 19000 p 361 pp Value 5041 pp	opm n	Organ Central n system Organ Central n	Effect	13 weeks (6h/c         13 weeks (6h/c         days/week)         Exposure time         13 week(s)         8 week(s)         2 day(s)         Exposure time         13 weeks (6h/c	lay, 5 Rat (male/female) Species Mouse (male/female) Rat (male) Human Species	determination Data waiving Data waiving Experimenta value Value determination Experimenta value Not relevant expert Literature Inconclusive, insufficient do Data waiving Data waiving Experimenta value
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ydrocarbons, C6-C7, r Route of exposure			Method	Value	Organ	Effect	Exposure time	Species	Value
		5101		<b>Vulue</b>		LIICOL		openes	determinat
Inhalation	NOAEC	2		4200 mg/m <sup>3</sup> air		No effect	3 days (8h/day)	Rat (male)	Experiment
(vapours)	10455		Other	14 - 1 - 3	Control	Daha in I		Det (as sta)	value
Inhalation	LOAEC		Other	14 g/m³	Central nervous		3 days (8h/day)	Rat (male)	Experiment
(vapours) thyl acetate	<u> </u>				system	disturbances		I	value
Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value
•							•	•	determinat
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)	Experiment value
Oral (stomach	LOAEL		EPA OTS	3600 mg/kg	General	Body weight,	90 day(s) - 92 day(s)	Rat	Experiment
tube)			795.2600	bw/day		organ weight, food consumption		(male/female)	value
Inhalation	NOEC		EPA OTS	350 ppm	General	No adverse		Rat (male (female)	Experiment
-hexane	<u> </u>		798.2450			systemic effect	s uays/week)	(male/female)	value
Route of exposure	Param	eter	Method	Value	Organ	Effect	Exposure time	Species	Value
•					Jigan		•	•	determinat
Oral (stomach tube)	NOAEL		Subchronic toxicity test	567 mg/kg bw/day - 1135 mg/kg bw/day		No effect	13 weeks (5 days/week)	Rat (male)	Experiment value
Oral (stomach	LOAEL		Subchronic	3956 mg/kg	Central nervous		17 weeks (5	Rat (male)	Experiment
tube) Dermal	+		toxicity test	bw/day	system	effects	days/week)		value Data waivin
	10455		Culture la constitución de	2000	Control :		16	Det (as sta)	Data waivin
Inhalation (vapours)	LOAEC		Subchronic toxicity test	3000 ppm	Central nervous system	Impairment of the nervous system	16 weeks (daily)	Rat (male)	Experiment value
Inhalation				STOT SE cat.3		Drowsiness,			Literature s
(vapours) lassification is based of	1		L			dizziness		L	
Aay cause drowsiness lot classified for subch genicity (in vitro) lal Thixotropic Contac	hronic to t Adhes	oxicity ive 46			2				
lot classified for subcl Jenicity (in vitro)	hronic to t Adhes	oxicity ive 46			ł				
lot classified for subch Jenicity (in vitro) Ial Thixotropic Contac Io (test)data on the m	hronic to t Adhes	ive 46/ vailabl			Test substrate	E	fect	Value dete	ermination
lot classified for subch enicity (in vitro) lal Thixotropic Contact lo (test)data on the m yclohexane Result Negative with meta activation, negative	hronic to <u>et Adhes</u> hixture a abolic e withou	ive 46 vailabl	le		<mark>Test substrat</mark> e Bacteria (S.typhi		fect o effect	Value dete Experimen	
lot classified for subch lenicity (in vitro) lal Thixotropic Contact lo (test)data on the m yclohexane Result Negative with meta activation, negative metabolic activatio Negative with meta activation, negative	hronic to t <u>t Adhesi</u> hixture a abolic e withou n abolic e withou	ive 46/ vailabl ut Eq	ethod	CD 471 CD 476		murium) N			tal value
lot classified for subch enicity (in vitro) lal Thixotropic Contact lo (test)data on the m yclohexane Result Negative with meta activation, negative metabolic activatio Negative with meta activation, negative metabolic activatio	hronic to t <u>t Adhesi</u> hixture a abolic e withou n abolic e withou	ive 46/ vailabl ut Eq	le ethod Juivalent to OE	CD 471 CD 476	Bacteria (S.typhi Mouse (lymphor	murium) N	o effect	Experimen	tal value
lot classified for subch enicity (in vitro) lal Thixotropic Contact lo (test)data on the m yclohexane Result Negative with meta activation, negative metabolic activatio Negative with meta activation, negative metabolic activatio	hronic to t <u>t Adhesi</u> hixture a abolic e withou n abolic e withou	ive 46/ vailabl ut Eq ut Eq	le ethod Juivalent to OE	CD 471 CD 476	Bacteria (S.typhi Mouse (lymphor	murium) N ma L5178Y N	o effect	Experimen	tal value tal value
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	<u>exane</u>											
	Result		Method			Test sub:			Effect		Value	determination
	Negative		OECD 476	5		Mouse (l cells)	ymphoma L	L5178Y	No effect		Experi	imental value
	Negative		Equivalen	t to OECD 471		Bacteria	(S.typhimur	rium)	No effect		Experi	imental value
Mutager	nicity (in vivo)	)										
	<u>Thixotropic C</u> (test)data on											
<u>cyc</u>	lohexane				-			<del>.</del>		6		he 1 1 1 1 1 1 1
	Result Negative			ethod uivalent to OEC		sure time s (6h/day		Test substr Rat (male/f		Organ Bone mar	row	Value determination Experimental value
200	tone		47		5 July	5 (017 00)	,			Bone mar		
	Result		M	ethod	Expo	sure time	٦	Test substr	ate	Organ		Value determination
	Negative				13 w	eek(s)		Mouse (ma	ale/female			Literature
	anone Decut			a dha a d	<b>F</b> un e			Testsubst		0		Value determination
	Result Negative			ethod uivalent to OEC		sure time		Test substr Mouse (ma		Organ		Value determination Experimental value
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eth	yl acetate		0.4	athad	Fyno	ura tima		Toot ou bots	ato	Ormon		Volue determination
	Result Negative			e <b>thod</b> uivalent to OEC		sure time		Test substr Mouse (ma		Organ		Value determination Experimental value
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	exane Result		0.4	ethod	Evno	uro timo	F	Tost subst	ato	Organ		Value determination
	Negative		IVI	ethod		s <b>ure tim</b> e eks (6h/d		Test substr Mouse (ma		Organ		Value determination Experimental value
						week)						
		sed on the re	evant ingredie	nts								
-	lusion t classified for	mutagenic c	r genotoxic to:	vicity								
		mataberne e	- Benotoxie to	licity								
Carcinog	enicity											
<u>Soudal</u>	Thixotropic C	Contact Adhe	sive 46A									
No	(test)data on	the mixture	available									
	tone Route of	Parameter	Method	Value		Evpocure	time	Spacios		ffect	Organ	Value
	exposure	Falameter	wethou	value		Exposure	; ume	Species	E	IIEUL	Organ	determination
	Dermal	NOEL	Other	79 mg		51 week	(s)	Mouse (fe	emale)	lo effect		Literature
	exane Route of	Parameter	Method	Value		Exposure	timo	Species	le le	ffect	Organ	Value
	exposure	raiametei	Method	value		LAPUSUI	; time	species	Ľ	.11001	Organ	determination
	Inhalation	NOAEC	Equivalent	to 3000 ppn	ı		ks (6h/day,	Mouse (fe		No carcinogenic		Read-across
	(vapours) Inhalation	LOAEC	OECD 451	0010	1	5 days/w	/eek) ks (6h/day,	NARWAR /f		effect		
	(vapours)	LOALC	Fauivalent						amala) 1	umor formation	Livor	Read-across
			Equivalent OECD 451	to 9018 ppn		5 days/w		Mouse (f	emale) I	umor formation	Liver	Read-across
	Inhalation (vanours)	NOAEC	OECD 451 Equivalent		า	5 days/w 104 wee	veek) ks (6h/day,	Mouse (n	nale) I	No carcinogenic	Liver	Read-across Read-across
	(vapours)		OECD 451 Equivalent OECD 451	to 9018 ppn	า	5 days/w	veek) ks (6h/day,		nale) I		Liver	
Jud	(vapours)		OECD 451 Equivalent	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud <u>Conc</u>	(vapours) gement is bas	sed on the re	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud <u>Conc</u> Not	(vapours) gement is bas <u>lusion</u>	sed on the re	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud <u>Conc</u> Not	(vapours) gement is bas <u>lusion</u> t classified for active toxicity	sed on the re	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud <u>Conc</u> Not Reprodu	(vapours) gement is bas <u>lusion</u> t classified for ictive toxicity Thixotropic C	sed on the re carcinogenic	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud, <u>Conc</u> Not Reprodu <u>Soudal</u> No	(vapours) gement is bas <u>lusion</u> t classified for active toxicity	sed on the re carcinogenic	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee	veek) ks (6h/day,		nale) I	No carcinogenic	Liver	
Jud, <u>Conc</u> Not Reprodu <u>Soudal</u> No	(vapours) gement is bas <u>lusion</u> t classified for active toxicity <u>Thixotropic C</u> (test)data on	sed on the re carcinogenic	OECD 451 Equivalent OECD 451 evant ingredie	to 9018 ppn	า	5 days/w 104 wee 5 days/w	veek) ks (6h/day,	Mouse (n	nale) t	No carcinogenic	Organ	
Jud, <u>Conc</u> Not Reprodu <u>Soudal</u> No	(vapours) gement is bas <u>lusion</u> t classified for active toxicity <u>Thixotropic C</u> (test)data on	sed on the re carcinogenic <u>Contact Adhe</u> the mixture	OECD 451 Equivalent OECD 451 evant ingredie ity	0 9018 ppn ints Method Equivalent to	1	5 days/w 104 wee 5 days/w	reek) ks (6h/day, reek) Exposure ti 10 days	Mouse (n	nale) t	lo carcinogenic		Read-across Value determination Experimental
Jud, <u>Conc</u> Not Reprodu <u>Soudal</u> No	(vapours) gement is bas lusion t classified for active toxicity Thixotropic C (test)data on lohexane	sed on the re carcinogenia <u>Contact Adhe</u> the mixture tal toxicity	OECD 451 Equivalent OECD 451 evant ingredie ity	Method Equivalent to OECD 414 Equivalent to	Value	5 days/w 104 wee 5 days/w	reek) ks (6h/day, reek) Exposure ti 10 days (6h/day) 10 days	Mouse (n ime Specie Rat	nale) t	No carcinogenic		Read-across         Value         determination         Experimental         value         Experimental
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Jud <u>Conc</u> Not Reprodu <u>Soudal</u> No <u>cycl</u>	(vapours) gement is bas lusion t classified for active toxicity Thixotropic C (test)data on lohexane Developmen Maternal tox	sed on the re carcinogenia <u>Contact Adhe</u> the mixture tal toxicity	OECD 451 Equivalent OECD 451 evant ingredie ity sive 46A available Parameter	Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to	Value 7000 p 2000 p	5 days/w 104 wee 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w	reek) ks (6h/day, reek) Exposure ti 10 days (6h/day) 10 days (6h/day) > 11 weeks	ime Specie Rat Rat (fi s Rat (male	emale)	No carcinogenic Iffect Effect No effect No effect No effect		Read-across         Read-across         Value         determination         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value
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Jud <u>Conc</u> Not Reprodu Soudal No <u>cycl</u>	(vapours) gement is bas lusion t classified for active toxicity Thixotropic C (test)data on lohexane Developmen Maternal tox Effects on fer	sed on the re carcinogenia <u>Contact Adhe</u> the mixture i tal toxicity i icity i tility i	OECD 451 Equivalent OECD 451 evant ingredie ity sive 46A available Parameter	Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to	Value 7000 p 2000 p	5 days/w 104 wee 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w	reek) ks (6h/day, reek) Exposure ti 10 days (6h/day) 10 days (6h/day) > 11 weeks (6h/day, 5	ime Specie Rat Rat (fi s Rat )	emale) (female)	No carcinogenic Iffect Effect No effect No effect No effect	Organ	Read-across         Read-across         Value         determination         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value
Jud <u>Conc</u> Not Reprodu Soudal No <u>cycl</u>	(vapours) gement is bas lusion t classified for active toxicity Thixotropic C (test)data on lohexane Developmen Maternal tox	sed on the re carcinogenia <u>Contact Adhe</u> the mixture i tal toxicity i icity i tility i	OECD 451 Equivalent OECD 451 evant ingredie ity sive 46A available Parameter	Method Equivalent to OECD 414 Equivalent to OECD 414 Equivalent to	Value 7000 p 2000 p	5 days/w 104 wee 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w 5 days/w	reek) ks (6h/day, reek) Exposure ti 10 days (6h/day) 10 days (6h/day) > 11 weeks (6h/day, 5	ime Speci Rat Rat (fi Rat (male )	emale) (/female)	No carcinogenic offect  Effect No effect No effect No effect No effect no effect no effect	Organ	Read-across         Read-across         Value         determination         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value         Experimental         value
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	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Developmental toxicity	NOAEC	Equivalent to OECD 414	11000 ppm	6 days (gestation, daily) - 19 days (gestation, daily)	Rat (male/female)			Experimenta value
Effects on fertility	NOAEL	Other	900 mg/kg bw/day	13 week(s)	Rat (male)	No effect		Literature
anone	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
Developmental toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat	No effect	Foetus	Experimenta value
Maternal toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat (female)	No effect		Experimenta 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
rocarbons, C6-C7, n-alka	ne <mark>s, isoalkanes,</mark> Parameter	cyclics, < 5% n-h Method	nexane Value	Exposure time	Species	Effect	Organ	Value
Developmental toxicity	NOAEC		≥ 1200 ppm	10 days	Rat	No effect	9	determinati Read-across
Maternal toxicity	NOAEL	Equivalent to	900 ppm	(6h/day) 10 days	Rat (female)	No effect		Read-across
Effects on fertility	NOAEL (P/F1)	OECD 414 Equivalent to	9000 ppm	(6h/day)	Rat	No effect		Read-across
yl acetate		OECD 416			(male/female)			
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinati
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)	Mouse	No effect		Read-across
	LOAEL	Equivalent to OECD 414	3600 mg/kg bw/day	8 days (gestation, daily) - 14 days (gestation, daily)	Mouse	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		Experimenta value
<u>exane</u>	Parameter	Method	Value	Exposure time	Cracico	Effect	Ormon	Value
		IVIETIOU		exposure time	·		Organ	determinati
Developmental toxicity	NOAEC	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h/day)	Rat	No effect		Experimenta value
Maternal toxicity	NOAEC	Equivalent to OECD 414	3000 ppm	10 days (gestation, 6h/day)	Rat	No effect		Experimenta value
	LOAEL	Equivalent to OECD 414	9000 ppm	10 days (gestation, 6h/day)	Rat	Weight gain		Experimenta value
	NOAEC	Equivalent to	9000 ppm	≥ 13 weeks	Rat	No effect		Experimenta

#### Toxicity other effects

Soudal Thixotropic Contact Adhesive 46A No (test)data on the mixture available

Reason for revision: 9;15

Publication date: 2007-05-09 Date of revision: 2017-05-08

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
NOAEC	Other	2000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental v
LOAEC	Other	7000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental v
tone							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature stud
anone					_		
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Equivale <mark>nt to OE</mark> 404	CD	Skin	Skin dryness or cracking			Read-across
<u>yl acetate</u>							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or			Literature

#### Chronic effects from short and long-term exposure

Soudal Thixotropic Contact Adhesive 46A

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 46A

No (test)data on the mixture available

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determinatio
Acute toxicity fishes	LC50	Equivalent to OECD 203	4.53 mg/l	96 h		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
Foxicity algae and other aquatic plants	ErC50	Equivalent to OECD 201	9.317 mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental value GLP
	EC50	OECD 201	9.317 mg/l	72 h	Pseudokirchnerie Ila subcapitata			Experimental value Growth rate
ong-term toxicity fish								Data waiving
ong-term toxicity aquatic								Data waiving
Foxicity aquatic micro- organisms	IC50		29 mg/l	15 h	Aerobic micro- organisms			Experimental value Nominal concentration
								concentration
etone				-		_		concentration
etone la	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
etone	Parameter LC50		Value 5540 mg/l	Duration 96 h				Value determination
		EU Method C.1			Salmo gairdneri	···· J	water Fresh water	Value determination Experimental value Nominal

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinat
Acute toxicity fishes	LC50	OECD 203	2993 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental valu GLP
Acute toxicity crustacea	EC50	OECD 202	308 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental valu
Foxicity algae and other aquatic plants	ErC50	OECD 201	1972 mg/l	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental valu GLP
Foxicity aquatic micro-	EC0	DIN 38412-8	1150 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental valu
drocarbons, C6-C7, n-alkanes, is	oalkanes, cyc	lics, < 5% n-hex	ane					
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determina
Acute toxicity fishes	LL50	OECD 203	11.4 mg/l WAF	96 h		Semi-static system	Fresh water	Experimental valu
Acute toxicity crustacea	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental val
Foxicity algae and other aquatic plants	ErC50	OECD 201	30 mg/l WAF - 100 mg/l WAF	72 h	Pseudokirchnerie Ila subcapitata	Static system	Fresh water	Experimental valu GLP
ong-term toxicity fish	NOELR		2.045 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR
ong-term toxicity aquatic	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Foxicity aquatic micro-	EL50		35.57 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition
nyl acetate							•	
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determina
Acute toxicity fishes	LC50	US EPA	230 mg/l	96 h	Pimephales promelas	Flow-through system		Experimental val
Acute toxicity crustacea	EC50		154 mg/l	48 h	Daphnia magna			Literature
Toxicity algae and other aquatic	NOEC	OECD 201	> 100 mg/l	72 h		Static system	Fresh water	Experimental val Growth rate
ong-term toxicity fish	NOEC	ECOSAR v1.00	<mark>6.3 m</mark> g/l	32 day(s)	Pisces		Fresh water	QSAR
	NOEC	OECD 210	< 9.65 mg/l	32 day(s)		Flow-through system	Fresh water	Experimental val Growth rate
ong-term toxicity aquatic	NOEC	Equivalent to OECD 211	2.4 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental values Reproduction
Foxicity aquatic micro-	EC50		5870 mg/l	15 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental val Inhibitory
nexane	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determina
Acute toxicity fishes	LL50		13.3 mg/l	96 h	Oncorhynchus mykiss		Fresh water	Read-across; Nominal concentration
Acute toxicity crustacea	EL50		23.22 mg/l	48 h	Daphnia magna		Fresh water	Read-across; Nominal concentration
Foxicity algae and other aquatic			<mark>9.902</mark> mg/l	72 h	Pseudokirchnerie lla subcapitata		Fresh water	Read-across; Gro rate
ong-term toxicity fish	NOELR		2.976 mg/l	28 day(s)	Oncorhynchus mykiss		Fresh water	Read-across; Nominal concentration
ong-term toxicity aquatic crustacea	NOELR		5.195 mg/l	21 day(s)	Daphnia magna		Fresh water	Read-across; Nominal concentration

#### **Conclusion**

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

Reason for revision: 9;15

Publication date: 2007-05-09 Date of revision: 2017-05-08

Biodegradation v	vater			During	Malan dat to t
Method		Value		Duration	Value determination
Half-life soil (t1/2		metry Test 77 %; GLP		28 day(s)	Experimental value
Method	2 3011)	Value		Primary	Value determination
Method		Vulue		degradation/mineralisation	
		28 day(s) -	180 day(s)		Literature study
cetone					
Biodegradation v	water				
Method		Value		Duration	Value determination
	2 Evolution Test	90.9 %		28 day(s)	Experimental value
<u>utanone</u> Biodegradation v	wator				
Method		Value		Duration	Value determination
OECD 301D: Clo		98 %; GLP		28 day(s)	Experimental value
		Ikanes, cyclics, < 5% n-ł	hexane	20 00 (3)	
Biodegradation v					
Method		Value		Duration	Value determination
OECD 301F: Ma	anometric R <mark>espiro</mark> i	metry Test 98 %; GLP		28 day(s)	Experimental value
thyl acetate					
Biodegradation v	water				
Method		Value		Duration	Value determination
	2 Evolution Test	93.9 %		28 day(s)	Experimental value
	osed Bottle Test ation air (DT50 air)	100 %		28 day(s)	Experimental value
Method		Value		Conc. OH-radicals	Value determination
Iviethou		40 h		500000 /cm <sup>3</sup>	QSAR
-hexane		4011		500007011	QSAN
Biodegradation v	water				
Method		Value		Duration	Value determination
OECD 301F: Ma	anometric R <mark>espiro</mark>	metry Test 98 %; GLP		28 day(s)	Read-across
.3. Bioaccumu	odegradable comp Ilative potenti ntact Adhesive 464	al			
.3. Bioaccumu	ulative po <mark>tenti</mark>	al <u>A</u>	Value	Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor	Ilative potenti	al <u>A</u>	Value	Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor	Ilative potenti	al A	Value	Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor Kow Method	Ilative potenti	al A	Value	Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor Kow Method yclohexane	Ilative potenti	al A	Value	Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor Kow Method yclohexane BCF fishes	Ilative potenti ntact Adhesive 46/ Remai Not ap	al A rk pplicable (mixture)		_	
.3. Bioaccumu lal Thixotropic Cor Kow Method yclohexane BCF fishes Parameter	Ilative potenti ntact Adhesive 46/ Remai Not ap	al rk pplicable (mixture) Value	Duration	Species	Value determination
.3. Bioaccumu lal Thixotropic Cor Kow Method Velohexane BCF fishes Parameter BCF	Ilative potenti htact Adhesive 46/ Remai Not ap Method OECD 305	al rk pplicable (mixture) Value	Duration	Species Cyprinus carpio Temperature	Value determination
.3. Bioaccumu al Thixotropic Cor Kow Method Core and the second BCF fishes Parameter BCF Log Kow	Ilative potenti htact Adhesive 46/ Remai Not ap Method OECD 305	al A pplicable (mixture) Value 31 - 129	Duration 8 week(s)	Species Cyprinus carpio	Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method Method BCF fishes Parameter BCF Log Kow Method Other cetone	Ilative potenti htact Adhesive 46/ Remai Not ap Method OECD 305	al A pplicable (mixture) Value 31 - 129	Duration 8 week(s) Value	Species Cyprinus carpio Temperature	Value determination
.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other cetone BCF fishes	Ilative potenti Intact Adhesive 46/ Remain Not applications Method OECD 305 Remain Remain Method	al A pplicable (mixture) Value 31 - 129 mark	Duration 8 week(s) Value 3.44	Species Cyprinus carpio Temperature 25 °C	Value determination Literature study Value determination Experimental value
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other cetone BCF fishes Parameter	Ilative potenti htact Adhesive 46/ Remai Not ap Method OECD 305	al A pplicable (mixture) Value 31 - 129 mark Value	Duration 8 week(s) Value	Species Cyprinus carpio Temperature 25 °C Species	Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other cetone BCF fishes Parameter BCF BCF fishes Parameter BCF	Ilative potenti Intact Adhesive 46A Remain Not ap Method OECD 305 Re Method	al A pplicable (mixture) Value 31 - 129 mark	Duration 8 week(s) Value 3.44	Species Cyprinus carpio Temperature 25 °C	Value determination Literature study Value determination Experimental value
.3. Bioaccumu al Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other cetone BCF fishes Parameter BCF BCF fishes Parameter BCF BCF other aquation	Ilative potenti Intact Adhesive 464 Remain Not ap Method OECD 305 Re Method C organisms	al A pplicable (mixture) Value 31 - 129 mark Value 0.69	Duration 8 week(s) Value 3.44 Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces	Value determination Literature study Value determination Experimental value Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cectone BCF fishes Parameter BCF BCF fishes Parameter BCF BCF other aquatic Parameter	Method Method C organisms Method	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value	Duration 8 week(s) Value 3.44	Species Cyprinus carpio Temperature 25 °C Species	Value determination Literature study Value determination Experimental value Value determination Value determination Value determination
A: Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cectone BCF fishes Parameter BCF BCF BCF other aquatic Parameter BCF	Ilative potenti Intact Adhesive 464 Remain Not ap Method OECD 305 Re Method C organisms	al A pplicable (mixture) Value 31 - 129 mark Value 0.69	Duration 8 week(s) Value 3.44 Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces	Value determination Literature study Value determination Experimental value Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cetone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow	Ilative potenti Intact Adhesive 46A Remain Not ap Method OECD 305 Re Method Corganisms Method BCFWIN	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3	Duration 8 week(s) Value 3.44 Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces Species	Value determination Literature study Value determination Experimental value Value determination Value determination Value determination Calculated value
A: Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cectone BCF fishes Parameter BCF BCF BCF other aquatic Parameter BCF	Ilative potenti Intact Adhesive 46A Remain Not ap Method OECD 305 Re Method Corganisms Method BCFWIN	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value	Duration 8 week(s) Value 3.44 Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces	Value determination Literature study Value determination Experimental value Value determination Value determination Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cetone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow	Ilative potenti Intact Adhesive 46A Remain Not ap Method OECD 305 Re Method Corganisms Method BCFWIN	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3	Duration 8 week(s) Value 3.44 Duration Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces Species	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cetone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow Method	Ilative potenti Intact Adhesive 46A Remain Not ap Method OECD 305 Re Method Corganisms Method BCFWIN	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3	Duration 8 week(s) Value 3.44 Duration Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces Species	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination
A: Bioaccumu al Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cetone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow Method Log Kow Method	Method C organisms Method C organisms Method Remainn Remainnn Remainnn Remainnn Remainnn Remainnn Remainnn Remainnn Rem	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3	Duration 8 week(s) Value 3.44 Duration Duration	Species Cyprinus carpio Temperature 25 °C Species Pisces Species	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination
A.3. Bioaccumu lal Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cectone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow Method Log Kow Method OECD 117	Method OECD 305 Method OECD 305 Re Method Corganisms Method BCFWIN Re Re Re Re Re Re Re Re Re Re	al A rk oplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark	Duration 8 week(s) Value 3.44 Duration Duration Uuration Value -0.24 Value 0.3	Species Cyprinus carpio Temperature 25 °C Species Pisces Species	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data
Actional and the second	Method OECD 305 Method OECD 305 Re Method Corganisms Method BCFWIN Re Re Re Re Re Re Re Re Re Re	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark	Duration 8 week(s) Value 3.44 Duration Duration Uuration Value -0.24 Value 0.3	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination
Actional and the second	Method C organisms Method C organisms Method C organisms Method Re Re C organisms Method Re Re C organisms Method Re C organisms Method Re C organisms	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark mark Mark	Duration 8 week(s) Value 3.44 Duration Duration Value -0.24 Value 0.3 hexane	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature 40 °C	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value
Actional and the second	Method C organisms Method C organisms Method C organisms Method Re Re C organisms Method Re Re C organisms Method Re C organisms Method Re C organisms	al A rk oplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark	Duration 8 week(s) Value 3.44 Duration Duration Uuration Value -0.24 Value 0.3	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value Value determination Experimental value Value determination
Actional and a second s	Method C organisms Method C organisms Method C organisms Method Re Re C organisms Method Re Re C organisms Method Re C organisms Method Re C organisms	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark mark Mark	Duration 8 week(s) Value 3.44 Duration Duration Value -0.24 Value 0.3 hexane	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature 40 °C	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value
Actional and a second s	Method C organisms Method C organisms Method C organisms Method Re Re C organisms Method Re Re C organisms Method Re C organisms Method Re C organisms	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark mark Mark	Duration 8 week(s) Value 3.44 Duration Duration Value -0.24 Value 0.3 hexane	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature 40 °C	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value Value determination Experimental value Value determination
Actional and a second s	Method OECD 305 Remain Not age OECD 305 Re Method Corganisms Method BCFWIN Re C7, n-alkanes, isoal	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark mark Mark	Duration 8 week(s) Value 3.44 Duration Duration Value -0.24 Value 0.3 hexane	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature 40 °C	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value Value determination Experimental value Value determination Not relevant
A. Bioaccumu al Thixotropic Cor Kow Method BCF fishes Parameter BCF Log Kow Method Other Cetone BCF fishes Parameter BCF BCF other aquatic Parameter BCF Log Kow Method Utanone Log Kow Method OECD 117 ydrocarbons, C6-C	Method OECD 305 Remain Not age OECD 305 Re Method Corganisms Method BCFWIN Re C7, n-alkanes, isoal	al A pplicable (mixture) Value 31 - 129 mark Value 0.69 Value 3 mark mark mark Mark	Duration 8 week(s) Value 3.44 Duration Duration Value -0.24 Value 0.3 hexane	Species Cyprinus carpio Temperature 25 °C Species Pisces Species Temperature 40 °C Temperature	Value determination Literature study Value determination Experimental value Value determination Value determination Calculated value Value determination Test data Value determination Experimental value Value determination Not relevant 2007-05-09

BCF fishes									
Parameter	Method		Value	Du	Iration	Species			Value determination
BCF			30		day(s)	Leucisci			Experimental value
Log Kow									
Method		Remarl	K	Va	lue		Temperatu	re	Value determination
EPA OPPTS 830.75	560			0.6	58		25 °C		Experimental value
n-hexane									
BCF fishes									
Parameter	Method		Value	Du	uration	Species	i		Value determination
BCF	Other		501.187			Pimeph	ales promelas	5	QSAR
Log Kow									
Method		Remarl	ĸ	Va	lue		Temperatu	re	Value determination
Equivalent to OEC	D 107			4			20 °C		Experimental value
onclusion Contains bioaccumula <b>2.4. Mobility in s</b> o		nent(s)						1	
<u>cyclohexane</u>									
(log) Koc									
Parameter					Method		Va		Value determination
log Koc					Other		2.8	9	QSAR
<u>butanone</u>									
(log) Koc									
Parameter					Method		Va		Value determination
log Koc							1.5	3	Calculated value
hydrocarbons, C6-C7,		soalkane	es, cyclics, < 5% r	n-hexane					
Percent distribution	-			<b>I-</b>					
Method	Fraction a	air	Fraction biota	Fraction		Fraction soil	Fraction wa	ter	Value determination
	00.0/		0.0(	sedime	nt	0.0/	1.2.0/		
Mackay level III	98 %		0 %	0.9 %		0 %	1.3 %	_	Calculated value
ethyl acetate									
Percent distribution Method	Fraction a	air	Fraction biota	Fractior sedime		Fraction soil	Fraction wa	ter	Value determination
Mackay level III	51.3 %		0%	0.27 %		13.3 %	35.3 %		Calculated value
<u>n-hexane</u>									
(log) Koc									
Parameter					Method		Va	lue	Value determination
log Koc							3.3	4	QSAR
Volatility (Henry's L	aw constan	it H)							
Value		Viethod		-	perature		Remark	_	Value determination
Value 1.8 atm m³/mol				Tem 25 °		_	Remark	Ξ	Value determination Calculated value
1.8 atm m <sup>3</sup> /mol onclusion Contains component( 2.5. Results of PB	s) with pote	Method ential for vB asse	essment	25 °(	c			tion (E	Calculated value
	s) with pote BT and vP ponent(s) ti se effects ct Adhesive e gases (Re nponents is itial (ODP)	Method ential for VB asse hat meet <u>46A</u> gulation includec	essment t(s) the criteria o (EU) No 517/20 I in the list of flue	25 ° soil of PBT and 014) orinated g	/or vPvB a	as listed in Annex e gases (Regulati	XIII of Regula		Calculated value C) No 1907/2006.
1.8 atm m³/mol     Conclusion     Contains component(     2.5. Results of PB     Does not contain com     2.6. Other advers     udal Thixotropic Contai     luorinated greenhous     None of the known con     Dzone-depleting poten     Not classified as danger <u>cyclohexane     Ground water</u> Ground water pollut	s) with pote <b>3T and vP</b> ponent(s) the <b>5e effects</b> <u>ct Adhesive</u> e gases (Reg nponents is <b>1tial (ODP)</b> rous for the	Method ential for VB asse hat meet <u>46A</u> gulation includec	essment t(s) the criteria o (EU) No 517/20 I in the list of flue	25 ° soil of PBT and 014) orinated g	/or vPvB a	as listed in Annex e gases (Regulati	XIII of Regula		Calculated value C) No 1907/2006.
1.8 atm m <sup>3</sup> /mol Contains component(: 2.5. Results of PB Does not contain com 2.6. Other advers udal Thixotropic Contai luorinated greenhous lone of the known com Dzone-depleting potent lot classified as danger Cyclohexane Ground water	s) with pote <b>BT and vP</b> ponent(s) the <b>Se effects</b> <u>ct Adhesive</u> e gases (Real nponents is <b>stial (ODP)</b> rous for the tant	Method ential for VB asse hat meet <u>46A</u> gulation includec	essment t(s) the criteria o (EU) No 517/20 I in the list of flue	25 ° soil of PBT and 014) orinated g	/or vPvB a	as listed in Annex e gases (Regulati	XIII of Regula		Calculated value C) No 1907/2006.
1.8 atm m³/mol     Conclusion     Contains component(:     2.5. Results of PB     Does not contain com     2.6. Other advers     udal Thixotropic Contai     luorinated greenhous     lone of the known com     Dore-depleting poten     lot classified as danger     Ground water     Ground water     Ground water     Ground water pollut     butanone     Ground water pollut     ethyl acetate     Ground water	s) with pote BT and vP uponent(s) ti se effects ct Adhesive e gases (Rei nponents is ntial (ODP) rous for the tant	Method ential for VB asse hat meet <u>46A</u> gulation includec	essment t(s) the criteria o (EU) No 517/20 I in the list of flue	25 ° soil of PBT and 014) orinated g	/or vPvB a	as listed in Annex e gases (Regulati	XIII of Regula		Calculated value C) No 1907/2006.
1.8 atm m³/mol         Onclusion         Contains component(:         2.5. Results of PB         Does not contain com         2.6. Other advers         udal Thixotropic Contain         luorinated greenhous         lone of the known com         vone-depleting potention         lot classified as danger         cyclohexane         Ground water         Ground water         Ground water         Ground water         Ground water         Ground water         Ground water	s) with pote BT and vP uponent(s) ti se effects ct Adhesive e gases (Rei nponents is ntial (ODP) rous for the tant	Method ential for VB asse hat meet <u>46A</u> gulation includec	essment t(s) the criteria o (EU) No 517/20 I in the list of flue	25 ° soil of PBT and 014) orinated g	/or vPvB a	as listed in Annex e gases (Regulati	XIII of Regula on (EU) No 51	7/201	Calculated value C) No 1907/2006.

### 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.

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

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).

### **SECTION 14: Transport information**

Road (ADR)	
14.1. UN number	
UN number	1133
14.2. UN proper shipping name	
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Hazard identification number	
Class	3
Classification code	F1
14.4. Packing group	
Packing group	
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance mark	yes
14.6. Special precautions for user	yes
Special provisions	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for
	liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the
	conditions indicated in 2.2.3.1.4 of ADR
Rail (RID)	
14.1. UN number	
UN number	1133
14.2. UN proper shipping name	
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Hazard identification nu <mark>mber</mark>	33
Class	3
Classification code	F1
14.4. Packing group	
Packing group	
Labels	3
14.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	yes
14.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of RID
Inland waterways (ADN) 14.1. UN number	
UN number	1133
14.2. UN proper shipping name	
eason for revision: 9;15	Publication date: 2007-05-09
	Date of revision: 2017-05-08
vision number: 0302	Product number: 45108 20 /

Re

Dropor chipping name	Adhasiyas
Proper shipping name	Adhesives
4.3. Transport hazard class(es)	
Class	3
Classification code	F1
4.4. Packing group	
Packing group	
Labels	3
4.5. Environmental hazards	
Environmentally hazardo <mark>us substance mark</mark>	yes
4.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging for liquids. A package shall not weigh more than 30 kg. (gross mass)
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.2.3.1.4 of ADN
(IMDG/IMSBC)	
4.1. UN number	
UN number	1133
	1133
4.2. UN proper shipping name	A duration
Proper shipping name	Adhesives
4.3. Transport hazard class(es)	
Class	3
4.4. Packing group	
Packing group	
Labels	3
4.5. Environmental hazards	
Marine pollutant	Р
Environmentally hazardo <mark>us substance mark</mark>	yes
4.6. 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
4.7. Transport in bulk according to Annex II of Marpol and t	he IBC Code
Annex II of MARPOL 73/78	Not applicable, based on available data
(ICAO-TI/IATA-DGR)	
4.1. UN number	
UN number	1133
4.2. UN proper shipping na <mark>me</mark>	
Proper shipping name	Adhesives
4.3. Transport hazard class(es)	
Class	3
4.4. Packing group	
Packing group	
Labels	3
4.5. Environmental hazards	
Environmentally hazardous substance mark	ves
4.6. Special precautions for user	703
Special provisions	A3
limited quantities: maximum net quantity per packaging	Viscous liquid with a flash point lower than 23°C, which meets the
Specific mention	viscous liquid with a hash point lower than 23 C, which meets the

## SE

.1. Safety, health and	d environmental regulations/legis	lation specific for the substance or mixture
European legislation:		
VOC content Directive 2	010/75/EU	
VOC content		Remark
≥ 50 %		
430 g/l - 860 g/l		
on for revision: 9;15		Publication date: 2007-05-09
		Date of revision: 2017-05-08
sion number: 0302		Product number: 45108

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#### REACH Annex XVII - Restriction

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

and use of certain dar	ngerous	s substances, mixtures and articles	s.	
		Designation of the substance, of the gr substances or of the mixture	roup of	Conditions of restriction
• cyclohexane - acetone • butanone • hydrocarbons, C6-C7, n-alkanes, isoa cyclics, < 5% n-hexane • ethyl acetate • n-hexane	alkanes,	Liquid substances or mixtures which ar regarded as dangerous in accordance Directive 1999/45/EC or are fulfilling tl criteria for any of the following hazard or categories set out in Annex I to Reg (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.	with the d classes gulation .7, 2.8 tegories 1 tpes A to rse or on	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> <li>tricks and jokes,</li> <li>games for one or more participants, or any article intended to be used as such, even w ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</li></ul></li></ol>
• cyclohexane • acetone • butanone • hydrocarbons, C6-C7, n-alkanes, isoa cyclics, < 5% n-hexane • ethyl acetate • n-hexane	alkanes,	Substances classified as flammable gas category 1 or 2, flammable liquids cate 1, 2 or 3, flammable solids category 1 o substances and mixtures which, in con with water, emit flammable gases, cat 2 or 3, pyrophoric liquids category 1 o pyrophoric solids category 1, regardles whether they appear in Part 3 of Anne that Regulation or not.	egories or 2, ntact tegory 1, r ss of	<ul> <li>1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aeros dispensers are intended for supply to the general public for entertainment and decorativ purposes such as the following: <ul> <li>metallic glitter intended mainly for decoration,</li> <li>artificial snow and frost,</li> <li>"whoopee" cushions,</li> <li>silly string aerosols,</li> <li>imitation excrement,</li> <li>horns for parties,</li> <li>decorative flakes and foams,</li> <li>artificial cobwebs,</li> <li>stink bombs.2. Without prejudice to the application of other Community provisions or 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 mark visibly, legibly and indelibly with:</li> </ul> </li> <li>"For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply the aerosol dispensers referred to in paragraphs 1 and 2 shall not apply the aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market that the paragraphs 1 and 2 shall not apply the aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.</li> </ul>
cyclohexane		Cyclohexane		<ol> <li>Shall not be placed on the market for the first time after 27 June 2010, for supply to th general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.2. Neoprene based contact adhesives containing cyclohexane and not conforming to paragraph 1 shal not be placed on the market for supply to the general public after 27 December 2010.3.</li> <li>Without prejudice to other Community legislation concerning the classification, packagir and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentration 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 follow: "— This product is not to be used under conditions of poor ventilation. — This product is not to be used for carpet laying.".</li> </ol>
National legislation Belgium Soudal Thixotropic Contac No data available National legislation The Neth Soudal Thixotropic Contac	ct Adhe herlanc ct Adhe	<u>ts</u> <u>esive 46A</u>		
Waste identification (th Netherlands)	ie	LWCA (the Netherlands): KGA cat	tegory 04	4
son for revision: 9;15				Publication date: 2007-05-09 Date of revision: 2017-05-08
ision number: 0302				Product number: 45108 22 / 2

<u>butanone</u> Huidopname (wettelijk		
	() 2-Butanon; H	
n-hexane		
SZW - Lijst van voor de	n-Hexaan; 2; Suspected of da	amaging fertility.
voortplanting giftige st (vruchtbaarheid)		
<u>.</u>		
<u>National legislation France</u> Soudal Thixotropic Conta	act Adhesive 464	
No data available	ICT AUTIESIVE 40A	
<u>butanone</u>		
VME - Risque de pénét percutanée	ration Méthyléthylcétone; PP	
n-hexane		
Catégorie toxique pour reproduction	r la n-Hexane; R2	
National legislation German		
Soudal Thixotropic Conta	T	
WGK		ing based on the components in compliance with Verwaltungsvorschrift wassergefährder
	Stoffe (VwVwS) of 27 July 20	
cyclohexane	F 2 F. !	
TA-Luft	5.2.5; I	
acetone	5 2 5	
TA-Luft TRGS900 - Risiko der	5.2.5	ahidigung braucht hai Einhaltung das Askaitenlatzgrannsusstas und das kielenisches
	Aceton; Y; Risiko der Fruchts Grenzwertes nicht befürchte	chädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung butanone		
TA-Luft	5.2.5	
TRGS900 - Risiko der		tschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchte	
Hautresorptive Stoffe	Butanon; H; Hautresorptiv	
	alkanes, isoalkanes, cyclics, < 5% n-he	exane
TA-Luft	5.2.5; I	
ethyl acetate		
TA-Luft	5.2.5	
TRGS900 - Risiko der		chtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes nicht befürchte	t zu werden
<u>n-hexane</u>		
TA-Luft	5.2.5; I	
TRGS900 - Risiko der	n-Hexan; Y; Risiko der Frucht Grenzwertes nicht befürchte	schädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen
Fruchtschädigung	Grenzwertes ment befarente	
National legislation United I Soudal Thixotropic Conta		
No data available		
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FION 16: Oth	er information
	tements referred to under headings 2 and 3:
• •	Imable liquid and vapour.
	al if swallowed and enters airways.
H315 Causes skir	
	ious eye irritation. drowsiness or dizziness.
	l of damaging fertility.
	damage to organs (central nervous system) through prolonged or repeated exposure if inhaled.
H400 Very toxic	
	to aquatic life with long lasting effects.
H411 Toxic to aq	uatic life with long lasting effects.
(*)	INTERNAL CLASSIFICATION BY BIG
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 LD50	Lethal Concentration 50 % Lethal Dose 50 %
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Adverse Effect Level
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative
M-factor	
cyclohexane	1 Acute ECHA
Specific concentratio	n limits CLP
n-hexane	C ≥ 5 % STOT RE 2; H373 CLP Annex VI (A <sup>-</sup>

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

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Revision number: 0302	Product number: 45108	24 / 24