

SAFETY DATA SHEET

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

NMC-FIX

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

1.1. Product identifier

Product name Registration number REACH Product type REACH : NMC-FIX

: 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

NMC sa Gert-Noël-Strasse B-4731 Eynatten ☎ +32 87 85 85 00 +32 87 85 85 11 info@nmc.eu

1.4. Emergency telephone number

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

+32 14 58 45 45 (BIG)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classified as dange	Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008				
Class	Category	Hazard statements			
Flam. Liq.	category 2	H225: Highly flammable liquid and vapour.			
Eye Irrit.	category 2	H319: Causes serious eye irritation.			
Skin Irrit.	category 2	H315: Causes skin irritation.			
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

Revision number: 0001



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

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.
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves, protective clothing and eye protection/face protection.
P271	Use only outdoors or in a well-ventilated area.

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 7.2.1. Publication date: 2016-12-05 Date of revision: 2017-01-06 134-16957-530-en

P264

Wash hands thoroughly after handling. IF INHALED: Remove person to fresh air and keep comfortable for breathing

P304 + P340 P405

Store locked up.

Store lock

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

Supplemental information

- 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

P501

Gas/vapour spreads at floor level: ignition hazard Caution! Substance is absorbed through the skin

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark
acetone 01-2119471330-49	67-64-1 200-662-2	1% <c<20%< td=""><td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td><td>(1)(2)(10)</td><td>Constituent</td></c<20%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
cyclohexane 01-2119463273-41	110-82-7 203-806-2	1% <c<20%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td><td>(1)(2)(10)</td><td>Constituent</td></c<20%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent
ethyl acetate 01-2119475103-46	141-78-6 205-500-4	1% <c<20%< td=""><td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td><td>(1)(2)(10)</td><td>Constituent</td></c<20%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
butanone 01-2119457290-43	78-93-3 201-159-0	1% <c<20%< td=""><td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td><td>(1)(2)(10)</td><td>Constituent</td></c<20%<>	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	(1)(2)(10)	Constituent
2,6-di-tert-butyl-p-cresol 01-2119480433-40	128-37-0 204-881-4	0.1% <c<1%< td=""><td>Aquatic Acute 1; H400 Aquatic Chronic 1; H410</td><td>(1)(2)</td><td>Constituent</td></c<1%<>	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)	Constituent
hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, < 5% n-hexane 01-2119475514-35		10% <c<25%< td=""><td>Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411</td><td>(1)(10)</td><td>UVCB</td></c<25%<>	Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 STOT SE 3; H336 Aquatic Chronic 2; H411	(1)(10)	UVCB

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

(2) Substance with a Community workplace exposure limit

(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 fresh air. Respiratory problems: consult 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. After eye contact:

Rinse immediately with plenty of water. 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

Reason for revision: 7.2.1.

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. Gastrointestinal complaints. 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 burning: release of toxic and corrosive gases/vapours (hydrogen chloride, 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. Dilute toxic gases with water spray. Take account of toxic/corrosive precipitation water. 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.

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:

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

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

 $\underline{a)} \ Occupational \ exposure \ limit \ values$

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

		_	
		L	
	ι	Е	

Acetone	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	500 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	1210 mg/m³
lutanone	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	600 mg/m³
	Short time value (Indicative occupational exposure limit value)	300 ppm
	Short time value (Indicative occupational exposure limit value)	900 mg/m³
Cyclohexane	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	200 ppm
	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	700 mg/m³

R۵	aiur	m

Belgium		2
2,6-Di-tert-butyl-p-crésol (vapeur et aérosol)	Time-weighted average exposure limit 8 h	2 mg/m³
2-Butanone	Time-weighted average exposure limit 8 h	200 ppm
	Time-weighted average exposure limit 8 h	600 mg/m³
	Short time value	300 ppm
	Short time value	900 mg/m³
Acétate d'éthyle	Time-weighted average exposure limit 8 h	400 ppm
	Time-weighted average exposure limit 8 h	1461 mg/m³
Acétone	Time-weighted average exposure limit 8 h	500 ppm
	Time-weighted average exposure limit 8 h	1210 mg/m³
	Short time value	1000 ppm
	Short time value	2420 mg/m ³
Cyclohexane	Time-weighted average exposure limit 8 h	100 ppm
	Time-weighted average exposure limit 8 h	350 mg/m³

The Netherlands

2,6-Di-tert-butyl-p-cresol (inhaleerbaar)	Time-weighted average exposure limit 8 h (Private occupational exposure limit value)	5 mg/m³
2-Butanon	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	e 197 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	2590 mg/m³
	Short time value (Public occupational exposure limit value)	300 ppm
	Short time value (Public occupational exposure limit value)	900 mg/m³
Aceton	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	2501 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	21210 mg/m ³
	Short time value (Public occupational exposure limit value)	1002 ppm
	Short time value (Public occupational exposure limit value)	2420 mg/m ³

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

Cyclohexaan	Time-weighted average exposure limit 8 h (Public occupational exposure 200 ppm limit value)
	Time-weighted average exposure limit 8 h (Public occupational exposure 700 mg/m ³ limit value)
	Short time value (Public occupational exposure limit value) 400 ppm
	Short time value (Public occupational exposure limit value) 1400 mg/m ³
Ethylacetaat	Time-weighted average exposure limit 8 h (Private occupational 150 ppm exposure limit value)
	Time-weighted average exposure limit 8 h (Private occupational 550 mg/m ³ exposure limit value)
	Short time value (Private occupational exposure limit value) 300 ppm
	Short time value (Private occupational exposure limit value) 1100 mg/m ³

2,6-Di-tert-butyl-p-crésol	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	10 mg/m³
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 réglementaire indicative)	1400 mg/m³
Acétone	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	500 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	1210 mg/m³
	Short time value (VRC: Valeur réglementaire contraignante)	1000 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	2420 mg/m³
Cyclohexane	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	700 mg/m³
	Short time value (VL: Valeur non réglementaire indicative)	375 ppm
	Short time value (VL: Valeur non réglementaire indicative)	1300 mg/m³
Méthyléthylcétone	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	200 ppm
	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	600 mg/m³
	Short time value (VRC: Valeur réglementaire contraignante)	300 ppm
	Short time value (VRC: Valeur réglementaire contraignante)	900 mg/m³

Germany		
2,6-Di-tert-butyl-p-kresol	Time-weighted average exposure limit 8 h (TRGS 900)	10 mg/m³
Aceton	Time-weighted average exposure limit 8 h (TRGS 900)	500 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1200 mg/m³
Butanon	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	600 mg/m ³
Cyclohexan	Time-weighted average exposure limit 8 h (TRGS 900)	200 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	700 mg/m³
Ethylacetat	Time-weighted average exposure limit 8 h (TRGS 900)	400 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	1500 mg/m³

L 111/

2,6-Di-tert-butyl-p-cresol	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m³
Acetone	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	500 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1210 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	1500 ppm
	Short time value (Workplace exposure limit (EH40/2005))	3620 mg/m³
Butan-2-one (methyl ethyl ketone)	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	200 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	600 mg/m³
	Short time value (Workplace exposure limit (EH40/2005))	300 ppm
	Short time value (Workplace exposure limit (EH40/2005))	899 mg/m³

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

yclohexane	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	100 ppm
	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	350 mg/m ³
	Short time value (Workplace exposure limit (EH40/2005))	300 ppm
	Short time value (Workplace exposure limit (EH40/2005))	1050 mg/m³
Ethyl acetate	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	200 ppm
	Short time value (Workplace exposure limit (EH40/2005))	400 ppm

Acetone	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	250 ppm
	Short time value (TLV - Adopted Value)	500 ppm
Butylated hydroxytoluene (BHT)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m³ (IFV)
Cyclohexane	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	100 ppm
Ethyl acetate	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	400 ppm
Methyl ethyl ketone (MEK)	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	200 ppm
	Short time value (TLV - Adopted Value)	300 ppm

(IFV): Inhalable fraction and vapor

b) National biological limit values

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

Germany

Aceton (Aceton)	Urin: expositionsende, bzw. schichtende	0.	11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG
Butanon (2-Butanon; Ethylmethylketon) (Butanon (2-Butanon))	Urin: expositionsende, bzw. schichtende	2 mg/l	05/2015 DFG
Cyclohexan (1,2-Cyclohexandiol (nach Hydrolyse))	Urin: bei langzeitexposition: nach mehreren vorangegangenen schichten expositionsende, bzw. schichtende	0.0	11/2012 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG
UK	·	•	•
Butan-2-one (butan-2-one)	Urine: post shift	70 μmol/L	
USA (BEI-ACGIH)			
Acetone (Acetone)	Urine: end of shift	20 mg/L	Nonspecific - Intended changes
Acetone (Acetone)	Urine: end of shift	25 mg/L	
Methyl ethyl ketone (MEK)	urine: end of shift	2 mg/L	

Methyl ethyl ketone (MEK) 8.1.2 Sampling methods

If applicable and available it will be listed below.

in applicable and available it will be listed below.		
2,6-Di-tert-Butyl-p-Cresol (DBPC)	NIOSH	1(226)
2-Butanone (MEK) (Methyl ethyl ketone)	NIOSH	2500
2-Butanone (Methyl ethyl ketone)	OSHA	84
2-Butanone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
2-Butanone (Volatile Organic compounds)	NIOSH	2549
2-Butanone	OSHA	1004
2-Butanone	OSHA	13
Acetone (ketones 1)	NIOSH	1300
Acetone (ketones I)	NIOSH	2555
Acetone (organic and inorganic gases by Extractive FTIR)	NIOSH	3800
Acetone (Volatile Organic compounds)	NIOSH	2549
ACETONE and METHYL ETHYL KETONE in urine	NIOSH	8319
Acetone	OSHA	69
Cyclohexane (Hydrocarbons, BP36 to 126C)	NIOSH	1500
Cyclohexane	NIOSH	95-117
Cyclohexane	OSHA	7
Di-tert-butyl-p-cresol	OSHA	2108
Ethyl acetate (Volatile Organic compounds)	NIOSH	2549
Ethyl Acetate	NIOSH	1457
Ethyl Acetate	OSHA	7
MEK	NIOSH	8002
Methyl Ethyl Ketone (ketones I)	NIOSH	2555
Methyl Ethyl Ketone	OSHA	16

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

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

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

8.1.4 DNEL/PNEC values

DNEL/DMEL - Workers

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1210 mg/m ³	
	Acute local effects inhalation	2420 mg/m ³	
	Long-term systemic effects dermal	186 mg/kg bw/day	
L /clohexane			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	700 mg/m ³	Konturk
DINEL	Acute systemic effects inhalation	700 mg/m ³	
	Long-term local effects inhalation	700 mg/m ³	
	Acute local effects inhalation	700 mg/m ³	
		=	
	Long-term systemic effects dermal	2016 mg/kg bw/day	
hyl acetate Effect level (DNEL/DMEL)	Turno	Value	Domark
	Туре		Remark
DNEL	Long-term systemic effects inhalation	734 mg/m ³	
	Acute systemic effects inhalation	1468 mg/m ³	
	Long-term local effects inhalation	734 mg/m ³	
	Acute local effects inhalation	1468 mg/m ³	
	Long-term systemic effects dermal	63 mg/kg bw/day	
utanone			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	600 mg/m³	
	Long-term systemic effects dermal	1161 mg/kg bw/day	
<u>6-di-tert-butyl-p-cresol</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	4.4 mg/m ³	
	Long-term systemic effects dermal	4.7 mg/kg bw/day	
vdrocarbons, C6-C7, n-alkanes,	isoalkanes, cyclics, < 5% n-hexane		•
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2035 mg/m³	
DNEL	Long-term systemic effects inhalation Long-term systemic effects dermal	2035 mg/m³ 773 mg/kg bw/day	
DNEL NEL/DMEL - General populatio	Long-term systemic effects dermal	=	
NEL/DMEL - General populatio	Long-term systemic effects dermal	=	
NEL/DMEL - General populatio	Long-term systemic effects dermal	=	Remark
NEL/DMEL - General populatio	Long-term systemic effects dermal	773 mg/kg bw/day	Remark
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal	773 mg/kg bw/day Value	Remark
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day	Remark
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL	Long-term systemic effects dermal Type Long-term systemic effects dermal	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³	Remark
NEL/DMEL - General populatio <u>:etone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u>	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value	Remark
NEL/DMEL - General populatio <u>setone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³ 412 mg/m ³	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³ 412 mg/m ³ 206 mg/m ³	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³ 412 mg/m ³ 412 mg/m ³ 412 mg/m ³	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³ 412 mg/m ³ 412 mg/m ³ 412 mg/m ³ 1186 mg/kg bw/day	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>clohexane</u> Effect level (DNEL/DMEL) DNEL	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation	773 mg/kg bw/day Value 62 mg/kg bw/day 200 mg/m ³ 62 mg/kg bw/day Value 206 mg/m ³ 412 mg/m ³ 412 mg/m ³ 412 mg/m ³	
NEL/DMEL - General populatio retone Effect level (DNEL/DMEL) DNEL rclohexane Effect level (DNEL/DMEL) DNEL DNEL	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Long-term systemic effects inhalation Long-term systemic effects oral Long-term systemic effects oral Long-term systemic effects oral	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 59.4 mg/kg bw/day	Remark
NEL/DMEL - General populatio retone Effect level (DNEL/DMEL) DNEL rclohexane Effect level (DNEL/DMEL) DNEL byl acetate Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects oral Type Type Type Type	Value 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day Value 206 mg/m³ 412 mg/m³ 206 mg/kg bw/day 59.4 mg/kg bw/day Value	
NEL/DMEL - General populatio <u>cetone</u> Effect level (DNEL/DMEL) DNEL <u>(clohexane</u> Effect level (DNEL/DMEL) DNEL ityl acetate	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral Type Long-term systemic effects oral	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/kg bw/day 59.4 mg/kg bw/day Value 367 mg/m³	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u> Effect level (DNEL/DMEL) DNEL <u>hyl acetate</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects oral	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/kg bw/day 59.4 mg/kg bw/day 59.4 mg/m³ 367 mg/m³ 734 mg/m³	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u> Effect level (DNEL/DMEL) DNEL <u>hyl acetate</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation	Value 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 200 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day 59.4 mg/m³ 367 mg/m³ 367 mg/m³	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u> Effect level (DNEL/DMEL) DNEL <u>hyl acetate</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral Long-term systemic effects inhalation Acute local effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute local effects inhalation Acute local effects inhalation Acute local effects inhalation	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 200 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 367 mg/kg bw/day Value 367 mg/m³ 734 mg/m³ 367 mg/m³ 734 mg/m³	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u> Effect level (DNEL/DMEL) DNEL <u>hyl acetate</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Acute local effects inhalation Long-term systemic effects dermal	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day 9.4 mg/m³ 367 mg/m³ 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>rclohexane</u> Effect level (DNEL/DMEL) DNEL <u>hyl acetate</u> Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral Long-term systemic effects inhalation Acute local effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute local effects inhalation Acute local effects inhalation Acute local effects inhalation	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 200 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 367 mg/kg bw/day Value 367 mg/m³ 734 mg/m³ 367 mg/m³ 734 mg/m³	Remark
NEL/DMEL - General populatio cetone Effect level (DNEL/DMEL) DNEL clohexane Effect level (DNEL/DMEL) DNEL thyl acetate Effect level (DNEL/DMEL) DNEL utanone	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Acute local effects inhalation Long-term systemic effects dermal	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day Value 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day 4.5 mg/kg bw/day	Remark
NEL/DMEL - General populatio cetone Effect level (DNEL/DMEL) DNEL clohexane Effect level (DNEL/DMEL) DNEL thyl acetate Effect level (DNEL/DMEL) DNEL utanone	Long-term systemic effects dermal Type Long-term systemic effects dermal Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Acute local effects inhalation Long-term systemic effects dermal	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day 9.4 mg/m³ 367 mg/m³ 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day	Remark
NEL/DMEL - General populatio <u>retone</u> Effect level (DNEL/DMEL) DNEL <u>(clohexane</u> Effect level (DNEL/DMEL) DNEL <u>chyl acetate</u> Effect level (DNEL/DMEL) DNEL	Long-term systemic effects dermal Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Acute local effects inhalation Long-term systemic effects oral Type Long-term systemic effects inhalation Acute systemic effects inhalation Acute systemic effects inhalation Acute local effects inhalation Long-term local effects inhalation Acute local effects inhalation Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects oral	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day Value 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day 4.5 mg/kg bw/day	Remark
NEL/DMEL - General populatio retone Effect level (DNEL/DMEL) DNEL relohexane Effect level (DNEL/DMEL) DNEL hyl acetate Effect level (DNEL/DMEL) DNEL Lanone Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute local effects inhalation Long-term local effects inhalation Long-term systemic effects oral	773 mg/kg bw/day 62 mg/kg bw/day 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day 59.4 mg/m³ 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day 4.5 mg/kg bw/day	Remark
NEL/DMEL - General populatio retone Effect level (DNEL/DMEL) DNEL (clohexane Effect level (DNEL/DMEL) DNEL Chyl acetate Effect level (DNEL/DMEL) DNEL Ltanone Effect level (DNEL/DMEL)	Long-term systemic effects dermal Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects inhalation Long-term systemic effects inhalation Long-term systemic effects inhalation Acute systemic effects inhalation Long-term local effects inhalation Long-term local effects inhalation Long-term systemic effects dermal Long-term systemic effects dermal Long-term systemic effects oral Type Long-term systemic effects oral	Value 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day 200 mg/m³ 62 mg/kg bw/day Value 206 mg/m³ 412 mg/m³ 206 mg/m³ 412 mg/m³ 1186 mg/kg bw/day 59.4 mg/kg bw/day Value 367 mg/m³ 734 mg/m³ 37 mg/kg bw/day 4.5 mg/kg bw/day Value 106 mg/m³	Remark

Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term syste	emic effects dermal	1.7 mg/kg b	w/day	
	Long-term syste	emic effects inhalation	0.78 mg/m ³		
	Long-term syste	emic effects oral	0.25 mg/kg	bw/day	
drocarbons, C6-C7, n-alkanes, is	oalkanes, cyclics, < !	5% n-hexane			
Effect level (DNEL/DMEL)	Туре		Value		Remark
DNEL	Long-term local	effects inhalation	608 mg/m³		
	Long-term syste	emic effects dermal	699 mg/kg b	w/day	
	Long-term syste	emic effects oral	699 mg/kg k	w/day	
IEC			1		
etone					
Compartments		Value		Remark	
Fresh water		10.6 mg/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			
clohexane				1	
Compartments		Value		Remark	
Fresh water		0.207 mg/l		Kernark	
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			
		3.627 mg/kg sediment dw			
Marine water sediment					
Soil		2.99 mg/kg soil dw			
hyl acetate		Mahua		Damanlı	
Compartments				Remark	
Fresh water		0.24 mg/l			
Marine water		0.024 mg/l			
Aqua (intermittent releases)		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			
Oral		0.2 g/kg food			
<u>itanone</u>		k			
Compartments		Value		Remark	
Fresh water		55.8 mg/l			
Marine water		55.8 mg/l			
Aqua (intermittent releases)		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			
Soil		22.5 mg/kg soil dw			
Food		1000 mg/kg food			
5-di-tert-butyl-p-cresol					
Compartments		Value		Remark	
Fresh water		0.199 μg/l			
Marine water		0.2 μg/l			
Aqua (intermittent releases)		1.99 μg/l			
STP		0.17 mg/l			
Fresh water sediment		99.6 μg/kg sediment dw		İ	
Salt water		9.96 µg/kg sediment dw			
Soil		47.69 μg/kg soil dw		1	
		· · · · ·			

If applicable and available it will be listed below.

8.2. Exposure controls

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

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	No data available
Flammability	Highly flammable liquid and vapour.
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Flash point	-15 °C ; 1013 hPa
Evaporation rate	No data available
Relative vapour density	No data available
Vapour pressure	No data available
Solubility	No data available
Relative density	No data available
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Explosive properties	No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with oxidising properties
рН	No data available

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

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

10.5. Incompatible materials

(strong) acids, (strong) bases.

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

10.6. Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours (hydrogen chloride, carbon monoxide - carbon dioxide).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

11.1.1 Test results

Acute toxicity

NMC-FIX

No (test)data on the mixture available

<u>acetone</u>

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	5800 mg/kg		Rat (female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	20000 mg/kg		Rabbit (male)	Experimental value	
Dermal	LD50		> 7426 mg/kg bw		Rabbit (female)	Weight of evidence	
Inhalation (vapours)	LC50	Other	76 mg/l	4 h	Rat (female)	Experimental value	
Inhalation (vapours)	LCL0	Other	16000 ppm	4 h	Rat	Experimental value	
cyclohexane							
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	Equivalent to OECD 401	> 5000 mg/kg bw		Rat (male/female)	Experimental value	
Dermal	LD50	Equivalent to OECD 402	> 2000 mg/kg bw		Rabbit (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 32.88 mg/l air	4 h	Rat (male/female)	Experimental value	
Inhalation (vapours)	LC50	Equivalent to OECD 403	> 19.07 mg/l	4 h	Rat (male/female)	Experimental value	

ethyl acetate

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

butanone

tunone							
Route of exposure	Parameter	Method	Value	Exposure time		Value determination	Remark
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	

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

F	Route of exposure	Parameter	Method	Value	Exposure time	· · · · · · ·	Value determination	Remark
C	Dral	LD50	OECD 401	> 6000 mg/kg bw		Rat (male/female)	Experimental value	
C	Dermal	LD50	OECD 402	> 2000 mg/kg bw	24 h	Rat (male/female)	Experimental value	

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

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

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

Reason for revision: 7.2.1.

NMC-FIX

No (test)data on the mixture available

noute of exposure	e Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	OECD 405		24; 48; 72 hours	Rabbit	Weight of evidence	
Skin	Not irritating	Other	3 day(s)	24; 48; 72 hours	Guinea pig	Weight of evidence	
Inhalation	Slightly irritating	Human observation study	20 minutes		Human	Literature	
yclohexane		,					
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Slightly irritating	Equivalent to OECD 405		1 hour	Rabbit	Experimental value	
Skin	Not irritating	EU Method B.4	4 h	24; 48; 72 hours	Rabbit	Experimental value	
Inhalation	Irritating					Literature study	
thyl acetate				1			
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating; category 2					Annex VI	
Skin	Slightly irritating	Equivalent to OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value	
utanone	_		•		•	I	
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Irritating	Equivalent to OECD 405		24; 72 hours	Rabbit	Experimental value	Single exposur
Skin	Not irritating	OECD 404	4 h	4; 24; 48; 72 hours	Rabbit	Read-across	
,6-di-tert-butyl-p-cre	esol		-		•		
Route of exposure	e Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	Experimental value	
Skin	Not irritating	OECD 404		24; 72 hours	Rabbit	Experimental value	
vdrocarbons, C6-C7	, n-alkanes, isoalka	nes, cyclics, < 5% n-he	ane		•		
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	Other			Rabbit	Read-across	
Skin	Irritating	Equivalent to OECD 404	04 h	24; 48; 72 hours	Rabbit	Experimental value	
nclusion auses skin irritation. auses serious eye irr lot classified as irrita atory or skin sensiti <u>-FIX</u> lo (test)data on the l	ritation. iting to the respirat sation	the relevant ingredien					
<u>cetone</u> Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark
	Not sensitizing	Guinea pig		point 48 hours		Experimental value	
Skin	5.5.5.6.2.1.6	maximisation test					
Skin							
Skin	Not sensitizing	Human observation			Human	Literature	
			Exposure time	Observation time point		Literature Value determination	Remark

Reason for revision: 7.2.1.

Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Intradermal	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	
tanone							
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	OECD 406		24; 48 hours	Guinea pig (female)	Experimental value	
6-di-tert-butyl-p-cre	sol	•					
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Guinea pig maximisation test		24; 48 hours	Guinea pig (male/female)	Experimental value	
Skin	Not sensitizing	Human observation			Human (male/female)	Experimental value	
drocarbons, C6-C7,	n-alkanes, isoalka	anes, cyclics, < 5% n-he	xane	•	•		
Route of exposure	Result	Method	Exposure time	Observation time point	Species	Value determination	Remark
Skin	Not sensitizing	Equivalent to OECD 406		24; 48 hours	Guinea pig (male/female)	Read-across	

Conclusion

Not classified as sensitizing for inhalation

Not classified as sensitizing for skin

Specific target organ toxicity

NMC-FIX

No (test)data on the mixture available

<u>acetone</u>

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
Oral	NOAEL	Equivalent to OECD 408	20 mg/l		No effect	13 week(s)	Mouse (male/female)	Experimental value
Dermal								Not relevant, expert judgement
Inhalation (vapours)	NOAEC	Other	19000 ppm		No effect	8 week(s)	Rat (male)	Literature
Inhalation (vapours)		Human observation study	361 ppm	Central nervous system	neurotoxic effects	2 day(s)	Human	Inconclusive, insufficient data

cyclohexane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	 Value determination
Oral							Data waiving
Dermal							Data waiving
Inhalation (vapours)		EPA OPPTS 870.3465	7000 ppm			13 weeks (6h/day, 5 days/week)	Experimental value

ethyl acetate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
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)	Experimental value
Oral (stomach tube)	LOAEL	EPA OTS 795.2600	3600 mg/kg bw/day	General	Body weight, organ weight, food consumption	90 day(s) - 92 day(s)	Rat (male/female)	Experimental value
Inhalation	NOEC	EPA OTS 798.2450	350 ppm	General	No adverse systemic effects	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatio
Oral								Data waiving
Dermal								Data waiving
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	5041 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Experimental value
Inhalation (vapours)			STOT SE cat.3	Central nervous system	Drowsiness, dizziness			Annex VI
-di-tert-butyl-p-cresc	<u>ol</u>							
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatio
Oral (diet)	NOAEL		25 mg/kg bw/day		No effect		Rat (male/female)	Experimental value
rocarbons, C6-C7, n-	alkanes, isoa	lkanes, cyclics, <						-
Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determinatio
Inhalation (vapours)	NOAEC	Other	4200 mg/m³ air		No effect	3 days (8h/day)	Rat (male)	Experimental value
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	6646 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across
Inhalation (vapours)	NOAEC	Equivalent to OECD 413	2220 ppm		No effect	13 weeks (6h/day, 5 days/week)	Rat (male/female)	Read-across
Inhalation	LOAEC	Other	14 g/m³	Central nervous	Behavioural	3 days (8h/day)	Rat (male)	Experimenta

Conclusion

May cause drowsiness or dizziness.

Mutagenicity (in vitro)

NMC-FIX

No (test)data on the mixture available

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
lohexane			•	·
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
<u>yl acetate</u>				
Result	Method	Test substrate	Effect	Value determination
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
anone				
Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 473	Rat liver cells	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 476	Mouse (lymphoma L5178Y cells)	No effect	Experimental value
Negative with metabolic activation, negative without metabolic activation	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Experimental value
-di-tert-butyl-p-cresol				
Result	Method	Test substrate	Effect	Value determination
Negative	Ames test	Bacteria (S.typhimurium)	No effect	Experimental value
Negative	Equivalent to OECD 473	Chinese hamster ovary (CHO)	No effect	Experimental value
Negative	Equivalent to OECD 479	Chinese hamster ovary (CHO)	No effect	Experimental value

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

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

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 473	Rat liver cells	No effect	Read-across
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)	No effect	Read-across
Negative	OECD 476		No effect	Read-across

Mutagenicity (in vivo)

NMC-FIX

No (test)data on the mixture available

<u>acetone</u>

Result	Method	Exposure time	Test substrate	Organ	Value determinatio
Negative		13 week(s)	Mouse (male/female)		Literature
lohexane					
Result	Method	Exposure time	Test substrate	Organ	Value determinatio
Negative	Equivalent to OECD 475	5 days (6h/day)	Rat (male/female)	Bone marrow	Experimental value
nyl acetate					
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male)		Experimental value
tanone					•
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Equivalent to OECD 474		Mouse (male/female)		Experimental value
-di-tert-butyl-p-cresol	· · · · · · · · · · · · · · · · · · ·				
Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative	Chromosome aberration assay	8 weeks (daily)	Mouse (male)		Experimental value
Negative	Micronucleus test		Mouse (female)	Bone marrow	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for mutagenic or genotoxic toxicity

Carcinogenicity

NMC-FIX

No (test)data on the mixture available

acetone

	Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	· J.	Value determination
	Dermal	NOEL	Other	79 mg	51 week(s)	Mouse (female)	No effect		Literature
20	مان + م ح ا م ا	aracal							

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

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	· J	Value determination
Oral		Carcinogenic toxicity study		(-)		No carcinogenic effect		Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for carcinogenicity

Reproductive toxicity

NMC-FIX

No (test)data on the mixture available

acetone

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

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

lohexane	D	B 4 - 411	N/-1	F	C	F.C	0	N - 1
	Parameter	Method	Value	Exposure time	species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	7000 ppm	10 days (6h/day)	Rat	No effect		Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	2000 ppm	10 days (6h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416	7000 ppm	> 11 weeks (6h/day, 5 days/week)	Rat (male/female)	No effect		Experimental value

ethyl acetate

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	> 3600 mg/kg bw/day	7 day(s)	Mouse	No effect	Foetus	Read-across
Maternal toxicity	NOAEL	Equivalent to OECD 414	2200 mg/kg bw/day	8 days (gestation, daily) - 14 days (gestation, daily)	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		Mouse (male/female)	No effect		Experimental value

<u>butanone</u>

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat	No effect	Foetus	Experimental value
Maternal toxicity	NOAEC	Equivalent to OECD 414	1002 ppm	10 days (7h/day)	Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL	Equivalent to OECD 416	1644 mg/kg bw/day - 1771 mg/kg bw/day		Rat (male/female)	No effect		Read-across

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

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	Equivalent to OECD 414	375 mg/kg bw/day		Rat (female)	No effect	Foetus	Experimental value
Maternal toxicity	NOAEL	Equivalent to OECD 414	93.5 mg/kg bw/day		Rat (female)	No effect		Experimental value
Effects on fertility	NOAEL		500 mg/kg bw/day		Rat (female)	No effect		Experimental value
	NOAEL		100 mg/kg bw/day		Rat (male)	No effect		Experimental value

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determinatior
Developmental toxicity	NOAEC	Other	≥ 1200 ppm	10 days (6h/day)	Rat	No effect		Read-across
	NOAEL	Equivalent to OECD 414	3000 ppm	10 days (6h/day)	Mouse	No effect		Read-across
	LOAEL	Equivalent to OECD 414	9000 ppm	10 days (6h/day)	Mouse	Minor skeletal variations	Skeleton	Read-across
Maternal toxicity	NOAEC		1200 ppm		Rat (female)	No effect		Read-across
	NOAEL	Equivalent to OECD 414	900 ppm	10 days (6h/day)	Rat (female)	No effect		Read-across
	LOAEL	Equivalent to OECD 414	3000 ppm	10 days (6h/day)	Rat (female)	Lung tissue affection/degen eration	Lungs	Read-across
Effects on fertility	NOAEL (P/F1)	Equivalent to OECD 416	9000 ppm		Rat (male/female)	No effect		Read-across

Judgement is based on the relevant ingredients

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

Conclusion

Not classified for reprotoxic or developmental toxicity

Toxicity other effects

NMC-FIX

No (test)data on the mixture available

<u>acetone</u>

Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature study
clohexane							
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
NOAEC	Other	2000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental valu
LOAEC	Other	7000 ppm		neurotoxic effects	6 h	Rat (male)	Experimental valu
hyl acetate	•	•	•	•			
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
			Skin	Skin dryness or cracking			Literature
utanone		•			•	-	
Parameter	Method	Value	Organ	Effect	Exposure time	Species	Value determination
	Equivalent to OECD 404		Skin	Skin dryness or cracking			Read-across

Chronic effects from short and long-term exposure

NMC-FIX

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

NMC-FIX

No (test)data on the mixture available

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	5540 mg/l	96 h	Salmo gairdneri	Static system	Fresh water	Experimental value; Nominal concentration
Acute toxicity crustacea	LC50	Other	12600 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; Nominal concentration
Toxicity algae and other aquatic plants	EC50		> 7000 mg/l	96 h	Selenastrum capricornutum	Static system	Fresh water	Experimental value; Nominal concentration

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
Aguta tavisitu fishas	LC50	Equivalent to	4.52 mg/l	96 h	Pimephales	Flow through	water	Eventimental value
Acute toxicity fishes	LCSU	OECD 203	4.53 mg/1	9611	promelas	Flow-through system	Fresh water	Experimental value Measured concentration
Acute toxicity crustacea	EC50	Equivalent to OECD 202	0.9 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value Locomotor effect
Toxicity algae and other aquatic plants		Equivalent to OECD 201		72 h	Pseudokirchneriel la subcapitata			Experimental value GLP
	EC50	OECD 201	9.317 mg/l	72 h	Pseudokirchneriel la subcapitata			Experimental value Growth rate
Long-term toxicity fish Long-term toxicity aquatic								Data waiving Data waiving
crustacea								
Toxicity aquatic micro- organisms	IC50		29 mg/l	15 h	Aerobic micro- organisms			Experimental value Nominal concentration
hyl acetate	• •	-	•	- 1	-	1	•	1
	Parameter	Method	Value	Duration	Species	Ŭ	Fresh/salt water	Value determinat
Acute toxicity fishes	LC50	US EPA	230 mg/l	96 h	promelas	Flow-through system	Fresh water	Experimental valu
Acute toxicity crustacea Toxicity algae and other aquatic plants	EC50 NOEC	OECD 201	154 mg/l > 100 mg/l	48 h 72 h	Daphnia magna Scenedesmus subspicatus	Static system	Fresh water	Literature Experimental value Growth rate
Long-term toxicity fish	NOEC	ECOSAR v1.00	6.3 mg/l	32 day(s)	Pisces		Fresh water	QSAR
	NOEC	OECD 210	< 9.65 mg/l	32 day(s)	Pimephales promelas	Flow-through system	Fresh water	Experimental valu Growth rate
Long-term toxicity aquatic crustacea	NOEC	Equivalent to OECD 211	2.4 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental valu Reproduction
Toxicity aquatic micro- organisms	EC50		5870 mg/l	15 minutes	Photobacterium phosphoreum	Static system	Salt water	Experimental valu Inhibitory
<u>itanone</u>	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 value
Acute toxicity crustacea	EC50	OECD 202	308 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental valu GLP
Toxicity algae and other aquatic plants	ErC50	OECD 201	1972 mg/l	72 h	Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental valu GLP
Toxicity aquatic micro- organisms	EC0	DIN 38412-8	1150 mg/l	16 h	Pseudomonas putida	Static system	Fresh water	Experimental valu
6-di-tert-butyl-p-cresol	Parameter	Method	Value	Duration	Species	Tost dosign	Fresh/salt	Value determinat
	raiametei	IVIELIIUU	value	Duration	Species	Test design	water	value determinati
Acute toxicity fishes	LC0		≥ 0.57 mg/l	96 h	Brachydanio rerio		Fresh water	Experimental valu
	LC50	C.1 ECOSAR v1.00	0.199 mg/l	96 h	Pisces	system		GLP QSAR
Acute toxicity crustacea	EC50	OECD 202	0.48 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental valu GLP
	NOEC	OECD 202	0.15 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental valu GLP
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	0.758 mg/l	96 h	Algae			Calculated value
Long-term toxicity fish	NOEC	ECOSAR v1.00	0.041 mg/l		Pisces			Calculated value; Chronic
Long-term toxicity aquatic crustacea	NOEC	OECD 202	0.316 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental valu GLP
Toxicity aquatic micro-	EC50		1.7 mg/l	24 h	Tetrahymena pyriformis	Static system	Fresh water	Experimental valu

Reason for revision: 7.2.1.

Publication date: 2016-12-05 Date of revision: 2017-01-06

Revision number: 0001

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinatior
Acute toxicity fishes	LL50	OECD 203	11.4 mg/l WAF	96 h		Semi-static system	Fresh water	Experimental value; GLP
Acute toxicity crustacea	EL50	OECD 202	3.0 mg/l WAF	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Foxicity algae and other aquatic plants	ErC50	OECD 201	30 mg/l WAF - 100 mg/l WAF		Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental value; GLP
ong-term toxicity fish	NOELR		2.045 mg/l	28	Oncorhynchus mykiss		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.17 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
	LOEC	OECD 211	0.32 mg/l WAF	21 day(s)	Daphnia magna	Static system	Fresh water	Read-across
Toxicity aquatic micro- organisms	EL50		35.57 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition
	NOELR		7.959 mg/l	48 h	Tetrahymena pyriformis		Fresh water	QSAR; Growth inhibition

Classification is based on the relevant ingredients

Conclusion

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

acetone

Biodegradation water			
Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	90.9 %	28 day(s)	Experimental value
cyclohexane Biodegradation water			
Method	Value	Duration	Value determination
OECD 301F: Manometric Respirometry Test	77 %; GLP	28 day(s)	Experimental value
Half-life soil (t1/2 soil)			
Method	Value	Primary degradation/mineralisation	Value determination
	28 day(s) - 180 day(s)		Literature study
ethyl acetate Biodegradation water			
Method	Value	Duration	Value determination
OECD 301B: CO2 Evolution Test	93.9 %	28 day(s)	Experimental value
OECD 301D: Closed Bottle Test	100 %	28 day(s)	Experimental value

OECD 301D: Closed Bottle Tes	100 %	28 day(s)	Experimental value
Phototransformation air (DT50	air)		
Method	Value	Conc. OH-radicals	Value determination
	40 h	500000 /cm ³	QSAR
hutanana			

butanone Biodegradation water

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

Publication date: 2016-12-05 Date of revision: 2017-01-06

Method			Value		Duratio	n	Value determinat	ion
	odified MITI Test		4.5 %		28 day(s	3)	Experimental valu	e
Phototransform	ation air (DT50 a	air)						
Method			Value			H-radicals	Value determinat	ion
AOPWIN v1.92			7.02 h		1500000) /cm³	Calculated value	
Biodegradation s	SOII		Value		Duratio	n	Value determinat	ion
Method			63.82 %		1 day(s)	1	Experimental valu	
Half-life water (t	1/2 water)				/ (-)			-
Method			Value		Primary		Value determinat	ion
					-	tion/mineralisation		
BIOWIN 4.10 Half-life soil (t1/2			37.5 day(s)	; QSAR	Primary	degradation	Calculated value	
Method	2 5011)		Value		Primary		Value determinat	ion
Method			Value			tion/mineralisation		1011
EPI Suite			75 day(s)		Primary	degradation	Calculated value	
Half-life air (t1/2	air)							
Method			Value		Primary	tion/mineralisation	Value determinat	ion
AOPWIN v1.92			7.018 h		-	degradation	Calculated value	
		oalkanes	, cyclics, < 5% n-h	exane	, initially		Calculated Value	
Biodegradation v	water		, , ,					
Method			Value		Duratio	n	Value determinat	ion
OECD 301F: Ma	anometric Respi	rometry	Test 98 %; GLP		28 day(s	3)	Experimental valu	е
3. Bioaccumu FIX Kow lethod		nark	ole (mixture)	Value	T	emperature	Value determin	ation
FIX Kow lethod	Ren	nark	ole (mixture)	Value	T	emperature	Value determin	ation
FIX Kow lethod etone BCF fishes	Ren Not	nark				·		
FIX Kow lethod etone BCF fishes Parameter	Ren	nark	Value	Value	Specie	·		
FIX Kow lethod etone BCF fishes Parameter BCF	Ren Not	nark				·		
FIX Kow lethod etone BCF fishes Parameter	Ren Not	nark	Value		Specie	S	Value de	terminatio
FIX Kow lethod Ethod BCF fishes Parameter BCF BCF BCF other aquati	Ren Not Method	nark	Value 0.69	Duration	Specie Pisces	S	Value de	terminatio
FIX Kow lethod BCF fishes Parameter BCF other aquati Parameter BCF BCF Log Kow	Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3	Duration Duration	Specie Pisces	s	Value de Value de Calculate	terminatio terminatio d value
FIX Kow lethod BCF fishes Parameter BCF BCF other aquati Parameter BCF	Method ic organisms Method BCFWIN	nark	Value 0.69 Value 3	Duration Duration Value	Specie Pisces	S	Value de Value de Calculate	terminatio terminatio d value
FIX Kow lethod BCF fishes Parameter BCF BCF other aquati Parameter BCF Log Kow Method	Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3	Duration Duration	Specie Pisces	s	Value de Value de Calculate	terminatio terminatio d value
FIX Kow lethod BCF fishes Parameter BCF other aquati Parameter BCF BCF Log Kow	Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3	Duration Duration Value	Specie Pisces	s	Value de Value de Calculate	terminatio terminatio d value
FIX Kow lethod BCF fishes Parameter BCF BCF other aquati Parameter BCF Log Kow Method Cohexane	Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3	Duration Duration Value	Specie Pisces	s Temperature	Value de Value de Calculate Value detern Test data	terminatio terminatio d value mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF Log Kow Method Ciclohexane BCF fishes	Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3	Duration Duration Value -0.24	Specie Pisces Specie Specie	s Temperature	Value de Value de Calculate Value detern Test data	terminatio terminatio d value mination terminatio
FIX Kow lethod Bethod BCF fishes Parameter BCF BCF Coher aquati Parameter BCF Log Kow Method BCF fishes Parameter BCF ECOhexane BCF BCF BCF	Method Method ic organisms Method BCFWIN	nark applicat	Value 0.69 Value 3 Value 31 - 129	Duration Duration Ualue -0.24 Duration 8 week(s)	Specie Pisces Specie Specie	s Temperature s us carpio	Value de Value de Calculate Value detern Test data Value de Literatur	termination d value mination termination
FIX Kow lethod Ethod BCF fishes Parameter BCF BCF other aquati Parameter BCF Log Kow Method ECF fishes Parameter BCF Log Kow Mathod	Method Method ic organisms Method BCFWIN	nark : applicab	Value 0.69 Value 3 Value 31 - 129	Duration Duration Uration Value -0.24 Duration 8 week(s) Value Value	Specie Pisces Specie Specie	s Temperature s us carpio Temperature Temperature	Value de Calculate Value detern Test data Value de Literatur	terminatio terminatio d value mination terminatio e study mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF Cother aquati Parameter BCF Log Kow Method BCF fishes BCF fishes BCF fishes Cog Kow Method Other	Method Method ic organisms Method BCFWIN	nark applicat	Value 0.69 Value 3 Value 31 - 129	Duration Duration Ualue -0.24 Duration 8 week(s)	Specie Pisces Specie Specie	s Temperature s us carpio	Value de Value de Calculate Value detern Test data Value de Literatur	terminatio terminatio d value mination terminatio e study mination
FIX Kow lethod Ethod BCF fishes Parameter BCF BCF other aquati Parameter BCF Log Kow Method ECF fishes Parameter BCF Log Kow Mathod	Method Method ic organisms Method BCFWIN	nark applicat	Value 0.69 Value 3 Value 31 - 129	Duration Duration Uration Value -0.24 Duration 8 week(s) Value Value	Specie Pisces Specie Specie	s Temperature s us carpio Temperature Temperature	Value de Calculate Value detern Test data Value de Literatur	terminatio terminatio d value mination terminatio e study mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF Cother aquati Parameter BCF Coblexane BCF Coblexane BCF BCF BCF Coblexane BCF BCF BCF BCF BCF BCF BCF BCF BCF BCF	Method Method ic organisms Method BCFWIN	nark applicat	Value 0.69 Value 3 Value 31 - 129	Duration Duration Uration Value -0.24 Duration 8 week(s) Value Value	Specie Pisces Specie Specie	s Temperature s us carpio Temperature 25 °C	Value de Calculate Calculate Value detern Test data Value de Literaturn Experimenta	terminatio terminatio d value mination terminatio e study mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF Cother aquati Parameter BCF Cobexane BCF Cobexane BCF fishes BCF fishes DCF fishes	Method Method BCFWIN Method BCFWIN	nark applicat	Value 0.69 Value 3 Value 31 - 129	Duration Duration Uration Value -0.24 Duration 8 week(s) Value 3.44	Specie Specie Specie Cyprin Specie	s Temperature s us carpio Temperature 25 °C	Value de Calculate Value detern Test data Value detern Literatur Experimenta	terminatio terminatio d value mination termination e study mination al value
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF BCF Colohexane BCF Colohexane BCF BCF BCF BCF BCF BCF Colohexane BCF BCF BCF BCF Colohexane BCF BCF BCF Colohexane BCF BCF Colohexane BCF BCF Colohexane Colohexane Co	Ren Not	nark applicat	Value 0.69 Value 3 Value 31 - 129 Value 30	Duration Duration Uration Value -0.24 Duration 8 week(s) Value 3.44 Duration 3 day(s)	Specie Specie Specie Cyprin Specie	s Temperature s us carpio Temperature 25 °C s cus idus	Value de Calculate Calculate Value detern Test data Value detern Literaturn Experimenta	terminatio terminatio d value mination terminatio e study mination il value terminatio ental value
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF BCF Conter aquati Parameter BCF Conter BCF BCF BCF BCF BCF BCF BCF BCF BCF BCF	Ren Not Method ic organisms Method BCFWIN OECD 305	nark applicat	Value 0.69 Value 3 Value 31 - 129 Value 30	Duration Duration Uration Value -0.24 Duration 8 week(s) Value 3.44 Duration 3 day(s) Value	Specie Specie Specie Cyprin Specie	s Temperature s us carpio Temperature 25 °C s cus idus Temperature	Value de Calculate Calculate Value detern Test data Value detern Literaturn Experimenta Value detern Experimenta	terminatio terminatio d value mination terminatio e study mination il value terminatio ental value mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF BCF Colohexane BCF Colohexane BCF BCF BCF BCF BCF BCF Colohexane BCF BCF BCF BCF Colohexane BCF BCF BCF Colohexane BCF BCF Colohexane BCF BCF Colohexane Colohexane Co	Ren Not Method ic organisms Method BCFWIN OECD 305	nark applicat	Value 0.69 Value 3 Value 31 - 129 Value 30	Duration Duration Uration Value -0.24 Duration 8 week(s) Value 3.44 Duration 3 day(s)	Specie Specie Specie Cyprin Specie	s Temperature s us carpio Temperature 25 °C s cus idus	Value de Calculate Calculate Value detern Test data Value detern Literaturn Experimenta	terminatio terminatio d value mination terminatio e study mination il value terminatio ental value mination
FIX Kow lethod BCF fishes BCF fishes BCF other aquati Parameter BCF BCF Conter aquati Parameter BCF Conter BCF BCF BCF BCF BCF BCF BCF BCF BCF BCF	Ren Not Method ic organisms Method BCFWIN OECD 305	nark applicat	Value 0.69 Value 3 Value 31 - 129 Value 30	Duration Duration Uration Value -0.24 Duration 8 week(s) Value 3.44 Duration 3 day(s) Value	Specie Specie Specie Cyprin Specie	s Temperature s us carpio Temperature 25 °C s cus idus Temperature	Value de Calculate Calculate Value detern Test data Value detern Literaturn Experimenta Value detern Experimenta	terminatio terminatio d value mination terminatio e study mination il value terminatio ental value mination

					/ .					
hutanono										
butanone										
Log Kow Method	Don	nark	Va	lue		Temper	aturo		Value determination	
OECD 117	Ken	Idi K				40 °C	ature			
	L		0.3	נ		40 C			Experimental value	
2,6-di-tert-butyl-p-cre	<u>esol</u>									
BCF fishes										
Parameter	Method	Value		Iration	Speci				Value determinati	-
BCF	OECD 305	230 - 2500	56	day(s)	Cyprii	nus carpio			Experimental value	!
Log Kow						-				
Method	Ren	nark	Va	lue		Temper	ature		Value determination	
			5.2	1					Experimental value	
hydrocarbons, C6-C7,	n-alkanes, isoalka	anes, cyclics, < 5% n	-hexane							
Log Kow										
Method	Ren	nark	Va	lue		Temper	ature		Value determination	
			> 3	3						
onclusion										
Contains bioaccumula	ative component(s)								
		,								
2.4. Mobility in s	oil									
cyclohexane										
(log) Koc										
Parameter				Method			Value		Value determination	۱
log Koc				Other			2.89		QSAR	_
ethyl acetate				1			I			
Percent distributior	1									
Method	Fraction air	Fraction biota	Fraction	n Fra	action soil	Fraction	water	Value dete	ermination	
momou	rustion un		sedime			i laotion	mator	value uete		
Mackay level III	51.3 %	0 %	0.27 %		.3 %	35.3 %		Calculated	value	_
	51.570	0 /0	0.27 70	10		33.370		calculated	Value	
butanone (lan) Kaa										
(log) Koc Parameter				Method			Value		Value determination	
				wethou						1
log Koc							1.53		Calculated value	
2,6-di-tert-butyl-p-cre	esol									
(log) Koc				1			1			
Parameter				Method			Value		Value determination	1
Кос				PCKOCWIN	v1.66		23030		Calculated value	
log Koc				PCKOCWIN	v1.66		4.362		Calculated value	
Volatility (Henry's L	aw constant H)									
Value	Meth	od	Tem	perature		Remark			Value determination	
8.92E-5 atm m³/m	nol SRC H	ENRYWIN v3.10							Calculated value	_
Percent distribution										
Method	Fraction air	Fraction biota	Fraction	n Fra	action soil	Fraction	water	Value dete	ermination	
	dottor i di		sedime							
Mackay level III	0.37 %		30.4 %	58	3.5 %	10.7 %		Calculated	value	
-		anos suclies < E% n								
hydrocarbons, C6-C7, Percent distributior		anes, eyenes, 8 370 11	TIENAITE							
Method	Fraction air	Fraction biota	Fraction	L Er	action soil	Fraction	water	Value dete	ermination	
Method	raction an	i laction biota	sedime			Taction	water	value ucto		
Mackay level III	98 %	0 %	0.9 %	09	2	1.3 %		Calculated	valuo	_
IVIACKAY IEVEI III	90 %	0 %	0.9 %	0 2	/0	1.5 %		Calculateu	value	
Contains component(Contains component(Contains component(2.5. Results of PE Due to insufficient dar (EC) No 1907/2006. 2.6. Other advers (C-FIX uorinated greenhous one of the known com zone-depleting poter	s) that adsorb(s) i 3T and vPvB a ta no statement of se effects re gases (Regulating reponents is included)	nto the soil ssessment an be made whethe on (EU) No 517/201	er the com 14)					-	o Annex XIII of Regulation	١
on for revision: 7.2.1.						Publ	ication d	late: 2016-12	2-05	
								ion: 2017-01		
						Dute	2.1013			
ion number: 0001						Drod	uct num	ber: 57909		2
CULTURED OUT						FIUU	accnuit	INCI . J/ 303		

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

<u>cyclohexane</u>

Ground water Ground water pollutant

ethyl acetate

Ground water Ground water pollutant

<u>butanone</u>

Ground water

Ground water pollutant

SECTION 13: Disposal considerations

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

13.1. Waste treatment methods

13.1.1 Provisions relating to waste

European Union

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

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

Recycle/reuse. 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)

l4.1. 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	ш
Labels	3
14.5. Environmental hazards	
Environmentally hazardous substance 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 ADR

Rail (RID)

 14.1. UN number
 1133

 14.2. UN proper shipping name
 Adhesives

 Proper shipping name
 Adhesives

 14.3. Transport hazard class(es)
 33

Reason for revision: 7.2.1.

Revision number: 0001

Class	3
Classification code	F1
.4. Packing group	·
Packing group	III
Labels	3
.5. Environmental hazards	
Environmentally hazardous substance mark	yes
.6. Special precautions for user	
Special provisions	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging fo 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	
Proper shipping name	Adhesives
14.3. Transport hazard class(es)	
Class	3
Classification code	F1
14.4. Packing group	
Packing group	III
Labels	3
14.5. Environmental hazards	·
Environmentally hazardous substance 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 ADN
1	

Sea (IMDG/IMSBC)

14.1. UN number		
UN number	1133	
14.2. UN proper shipping name		
Proper shipping name	Adhesives	
14.3. Transport hazard class(es)		
Class	3	
14.4. Packing group		
Packing group	III	
Labels	3	
14.5. Environmental hazards		
Marine pollutant	Ρ	
Environmentally hazardous substance mark	yes	
14.6. Special precautions for user	÷	
Special provisions	223	
Special provisions	955	
Limited quantities	Combination packagings: not more than 5 liters per inner packaging liquids. A package shall not weigh more than 30 kg. (gross mass)	; for
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 2.3.2.3 of IMDG	
14.7. Transport in bulk according to Annex II of Marpol and the IBC C	ode	
Annex II of MARPOL 73/78	Not applicable, based on available data	
مات (ICAO-TI/IATA-DGR)		
14.1. UN number		
UN number	1133	
14.2. UN proper shipping name	1133	
Proper shipping name	Adhesives	
14.3. Transport hazard class(es)	Adhesives	
Class	3	
on for revision: 7.2.1.	Publication date: 2016-12-05	
	Date of revision: 2017-01-06	
sion number: 0001	Product number: 57909	22

14.4 Packing group

Packing group	111
Labels	3
4.5. Environmental hazards	
Environmentally hazardous substance mark	yes
4.6. Special precautions for user	·
Special provisions	A3
limited quantities: maximum net quantity per packaging	10 L
Specific mention	Viscous liquid with a flash point lower than 23°C, which meets the conditions indicated in 3.3.3.1 of ICAO

SECTION 15: Regulatory information

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

European legislation:

VOC content Directive 2010/75/EU

VOC content	Remark
< 77.65 %	

REACH Annex XVII - Restriction

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

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
acetone cyclohexane ethyl acetate butanone hydrocarbons, C6-C7, n-alkanes, isoalkanes, ,yclics, < 5% n-hexane	Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	 1. Shall not be used in: — ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even wit ornamental aspects,2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless requir for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps f supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committ for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances an mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with R65 or H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with R65 or H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010. No later than 1 June 2014, the Commission shall request the European Chemicals Agency t prepare a dossier, in a
acetone cyclohexane ethyl acetate butanone hydrocarbons, C6-C7, n-alkanes, isoalkanes, yyclics, < 5% n-hexane	2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.	 Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following: metallic glitter intended mainly for decoration, artificial snow and frost, "whooppee" cushions, silly string aerosols, imitation excrement, horns for parties, actificial cobwebs, stink bombs.2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placir on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: "For professional users only".3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unle they conform to the requirements indicated.

Date of revision: 2017-01-06

·су

cyclohexane	1. Shall not be placed on the market for the first time after 27 June 2010, for supply to the general public, as a constituent of neoprene-based contact adhesives in concentrations equal to or greater than 0,1 % by weight in package sizes greater than 350 g.2. Neoprene-based contact adhesives containing cyclohexane and not conforming to paragraph 1 shall not be placed on the market for supply to the general public after 27 December 2010.3. Without prejudice to other Community legislation concerning the classification, packaging and labelling of substances and mixtures, suppliers shall ensure before the placing on the market that neoprene-based contact adhesives containing cyclohexane in concentrations equal to or greater than 0,1 % by weight that are placed on the market for supply to the general public after 27 December 2010 are visibly, legibly and indelibly marked as follows:
	 This product is not to be used for carpet laying.".

National legislation Belgium

NMC-FIX

No data available

National legislation The Netherlands

Ν	MC-FIX	

NIVIC-FIX			
Waste identification (the	LWCA (the Netherlands): KGA category 04		
Netherlands)			
Waterbezwaarlijkheid	A (2)		
butanone			
Huidopname (wettelijk)	2-Butanon; H		

National legislation France

NMC-FIX

No data available

butanone

VME - Risque de pénétration	Méthyléthylcétone; PP
percutanée	

National legislation Germany

WGK	2; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährde Stoffe (VwVwS) of 27 July 2005 (Anhang 4)		
acetone			
TA-Luft	5.2.5		
TRGS900 - Risiko der	Aceton; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen		
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden		
cyclohexane			
TA-Luft	5.2.5; I		
ethyl acetate			
TA-Luft	5.2.5		
TRGS900 - Risiko der	Ethylacetat; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischei		
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden		
butanone			
TA-Luft	5.2.5		
TRGS900 - Risiko der	Butanon; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen		
Fruchtschädigung	Grenzwertes nicht befürchtet zu werden		
Hautresorptive Stoffe	Butanon; H; Hautresorptiv		
2,6-di-tert-butyl-p-cresol			
TA-Luft	5.2.5; I		
TRGS900 - Risiko der Fruchtschädigung	2,6-Di-tert-butyl-p-kresol; Y; Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes nicht befürchtet zu werden		
	ines, isoalkanes, cyclics, < 5% n-hexane		
TA-Luft	5.2.5; I		
ational legislation United King			
NMC-FIX			
No data available			
butanone			
Skin absorption	Butan-2-one (methyl ethyl ketone); Sk		
ther relevant data			
NMC-FIX			
No data available			
	Publication date: 2016-12-05		
or revision: 7.2.1.			

	-					
acetone						
TLV - Carcinogen	Acetone; A4					
2,6-di-tert-butyl-p-cre	<u>sol</u>					
IARC - classification	ication 3; Butylated hydroxytoluene (bht)					
TLV - Carcinogen	Butylated hydroxytoluene (BH	IT); A4				
15.2. Chemical safety a	accaccmant					
	sessment has been conducted for the mix	xture.				
,						
CTION 16: Other	information					
Full text of any H-statem	ents referred to under headings 2 and 3:					
H225 Highly flammal						
	swallowed and enters airways.					
H315 Causes skin irri						
H319 Causes serious H336 May cause dro	•					
H400 Very toxic to a						
	quatic life with long lasting effects.					
H411 Toxic to aquati	c life with long lasting effects.					
(4)						
(*)	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	Lethal Concentration 50 %					
LD50	Lethal Dose 50 %					
NOAEL	No Observed Adverse Effect Level					
NOEC	No Observed Effect Concentration					
OECD	Organisation for Economic Co-operation and Development					
PBT	Persistent, Bioaccumulative & Toxic					
PNEC	Predicted No Effect Concentration					
STP vPvB	Sludge Treatment Process					
VPVB	very Persistent & very Bioaccumulative					
M-factor						
cyclohexane						
cyclohexane		1	Acute	ECHA		

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.

Reason for revision: 7.2.1.