

SAFETY DATA SHEET

Based upon Regulation (EC) No. 1907/2006, as amended by Regulation (EC) No. 453/2010

FIX ALL HT

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

1.1 Product identifier:

Product name

: FIX ALL HT

: Mixture

Registration number REACH

: Not applicable (mixture)

Product type REACH

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

1.2.1 Relevant identified uses

1.2.2 Uses advised against

No uses advised against known

1.3 Details of the supplier of the safety data sheet:

Supplier of the safety data sheet

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

Manufacturer of the product

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

1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

2.1.1 Classification according to Regulation EC No 1272/2008

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

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

Not classified as dangerous according to the criteria of directive(s) 67/548/EEC and/or 1999/45/EC

2.2 Label elements:

Labelling according to Regulation EC No 1272/2008 (CLP)

Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

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

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC

2.3 Other hazards:

CLP

Slightly irritant to eyes

DSD/DPD

Slightly irritant to eyes

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

Technische Schoolstraat 43 A, B-2440 Geel

http://www.big.be

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SECTION 3: Composition/information on ingredients

3.1 Substances:

Not applicable

3.2 Mixtures:

Name (REACH Registration No)	CAS No EC No	` '	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics (01-2119552497-29)	3	1% <c<10%< td=""><td>Xn; R65</td><td>Asp. Tox. 1; H304</td><td>(1)(10)</td><td>UVCB</td></c<10%<>	Xn; R65	Asp. Tox. 1; H304	(1)(10)	UVCB
bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate (01-2119537297-32)	52829-07-9 258-207-9		Xi; R36 N; R51-53	Eye Irrit. 2; H319 Aquatic Chronic 2; H411	(1)	Constituent
reaction mass of octadecanamide, 12-hydroxy-n- [2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2- diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-1,2-ethanediylbis- (01-2119545465-35)	907-495-0	2.5% <c<25%< td=""><td>R52-53</td><td>Aquatic Chronic 3; H412</td><td>(1)</td><td>Reaction product</td></c<25%<>	R52-53	Aquatic Chronic 3; H412	(1)	Reaction product
dioctylbis(pentane-2,4-dionato-O,O')tin (01-000020199-67)	54068-28-9 483-270-6		R43	Repr. 2; H361fd STOT RE 2; H373 Skin Sens. 1; H317 Aquatic Chronic 3; H412	(1)	Constituent

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

SECTION 4: First aid measures

4.1 Description of first aid measures:

General:

If you feel unwell, seek medical advice.

After inhalation:

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

After skin contact:

Wash immediately with lots of water. Soap may be used. Take victim to a doctor if irritation persists.

After eye contact:

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

After ingestion:

Rinse mouth with water. Consult a doctor/medical service if you feel unwell.

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

4.2.1 Acute symptoms

After inhalation:

No effects known.

After skin contact:

No effects known.

After eye contact:

Slight irritation.

After ingestion:

No effects known.
4.2.2 Delayed symptoms

No effects known.

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

If applicable and available it will be listed below.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

5.1.1 Suitable extinguishing media:

Water spray. Polyvalent foam. ABC powder. Carbon dioxide.

5.1.2 Unsuitable extinguishing media:

No unsuitable extinguishing media known.

5.2 Special hazards arising from the substance or mixture:

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

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours, hydrogen chloride.

5.3 Advice for firefighters:

5.3.1 Instructions:

No specific fire-fighting instructions required.

5.3.2 Special protective equipment for fire-fighters:

Gloves. Protective clothing. Heat/fire exposure: compressed air/oxygen apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No naked flames.

6.1.1 Protective equipment for non-emergency personnel

See heading 8.2

6.1.2 Protective equipment for emergency responders

Gloves. Protective clothing.

Suitable protective clothing

See heading 8.2

6.2 Environmental precautions:

Contain leaking substance. Use appropriate containment to avoid environmental contamination.

6.3 Methods and material for containment and cleaning up:

Scoop solid spill into closing containers. Clean contaminated surfaces with a soap solution. 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. Observe normal hygiene standards. Keep container tightly closed. Remove contaminated clothing immediately.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

Storage temperature: 20 °C. Store in a dry area. Keep container in a well-ventilated place. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).

7.2.2 Keep away from:

Heat sources, water/moisture.

7.2.3 Suitable packaging material:

Synthetic material.

7.2.4 Non suitable packaging material:

No data available

7.3 Specific end use(s):

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters:

8.1.1 Occupational exposure

a) Occupational exposure limit values

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

b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number
No data available		

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

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

8.1.4 DNEL/PNEC values

DNEL - Workers

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Effect level (DNEL/DMEL)	Туре	Value	Remark	
		No data available		
is(2,2,6,6-tetramethyl-4-piperidyl)sebacate			
Effect level (DNEL/DMEL)	Туре	Value	Remark	
DNEL	Acute systemic effects inhalation	2 mg/kg bw/day		
	Acute systemic effects dermal	5.6 mg/m ³		
	Long-term systemic effects dermal	2 mg/kg bw/day		
(00)	Long-term systemic effects inhalation	5.6 mg/m ³		
eaction mass of octadecanamide,	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r		ctadecan-1-amide) and decanami	
Effect level (DNEL/DMEL)	Туре	Value	Remark	
DNEL	Acute systemic effects inhalation	3 mg/m³		
	Acute local effects dermal	11.2 mg/cm ²		
	Acute local effects inhalation	3 mg/m³		
	Long-term local effects dermal	3.75 mg/cm ²		
	Long-term local effects inhalation	3 mg/m³		
NEL - General population				
vdrocarbons, C13-C23, n-alkanes,	isoalkanes, cyclics, <0.03% aromatics			
Effect level (DNEL/DMEL)	Туре	Value	Remark	
	37	No data available		
Lis(2,2,6,6-tetramethyl-4-piperidyl)sehacate		Total Control of the	
Effect level (DNEL/DMEL)	Туре	Value	Remark	
DNEL	Acute systemic effects dermal	1 mg/kg bw/day		
	Acute systemic effects inhalation	1.4 mg/m ³		
	Acute -systemic effects oral	1 mg/kg bw/day		
	Long-term systemic effects dermal	1 mg/kg bw/day		
	Long-term systemic effects inhalation	1.4 mg/m ³		
	Long-term systemic effects oral	1 mg/kg bw/day		
eaction mass of octadecanamide.			ctadecan-1-amide) and decanami	
	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r		ctadecan-1-amide) and decanami	
Effect level (DNEL/DMEL)	12-hydroxy-n-[2-[(1-ox <mark>odecyl)amino]ethyl]- and n,r</mark> Type	' <mark>-ethane-1,2-diylbis(12-hydroxyo</mark> Value		
	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal	value 11.2 mg/cm²		
Effect level (DNEL/DMEL)	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral	Value 11.2 mg/cm² 0.56 mg/kg bw/day		
Effect level (DNEL/DMEL) DNEL	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal	value 11.2 mg/cm²		
Effect level (DNEL/DMEL) DNEL NEC	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal	Value 11.2 mg/cm² 0.56 mg/kg bw/day		
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes,	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm²		
Effect level (DNEL/DMEL) DNEL NEC	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value	Value 11.2 mg/cm² 0.56 mg/kg bw/day		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm²		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available Sebacate Value Value No data available Value No data available Value No data available Value No data available Value Valu	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available Sebacate Value	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm²		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available)sebacate Value 0.005 mg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available)sebacate Value 0.005 mg/l 0.0005 mg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases)	Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP	Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.0011 mg/l 1 mg/l 8.02 mg/kg sediment dw	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.0011 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark		
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.0011 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw 1.6 mg/kg soil dw	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide,	Type	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Fresh water Soil action mass of octadecanamide, Compartments	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.001 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Value	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide, Compartments Fresh water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.001 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Value 43.2 µg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC ydrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide, Compartments Fresh water Salt water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.005 mg/l 0.011 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw 1.6 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,r Value 43.2 µg/l 4.32 µg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide, Compartments Fresh water Salt water STP	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.0005 mg/l 0.011 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw 1.6 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Value 43.2 µg/l 4.32 µg/l 10 mg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments s(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide, Compartments Fresh water Salt water STP Fresh water STP Fresh water sediment	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.001 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw 1.6 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Value 43.2 μg/l 4.32 μg/l 10 mg/kg sediment dw	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	
Effect level (DNEL/DMEL) DNEL NEC vdrocarbons, C13-C23, n-alkanes, Compartments is(2,2,6,6-tetramethyl-4-piperidyl Compartments Fresh water Marine water Aqua (intermittent releases) STP Fresh water sediment Fresh water Soil eaction mass of octadecanamide, Compartments Fresh water Salt water STP	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Type Acute local effects dermal Long-term systemic effects oral Long-term local effects dermal isoalkanes, cyclics, <0.03% aromatics Value No data available sebacate Value 0.005 mg/l 0.0005 mg/l 0.011 mg/l 1 mg/l 8.02 mg/kg sediment dw 0.802 mg/kg sediment dw 1.6 mg/kg soil dw 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n.r. Value 43.2 µg/l 4.32 µg/l 10 mg/l	Value 11.2 mg/cm² 0.56 mg/kg bw/day 3.75 mg/cm² Remark Remark	Remark	

8.2 Exposure controls:

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

8.2.1 Appropriate engineering controls

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Keep away from naked flames/heat. Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

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:

Insufficient ventilation: wear respiratory protection.

b) Hand protection:

Gloves.

c) Eye protection:

Safety glasses.

d) Skin protection:

Protective clothing.

8.2.3 Environmental exposure controls:

See headings 6.2, 6.3 and 13



9.1 Information on basic physical and chemical properties:

Physical form	Paste
Odour	Characte <mark>ristic odour</mark>
Odour threshold	No data <mark>available</mark>
Colour	Variable in colour, depending on the composition
Particle size	Not app <mark>licable</mark>
Explosion limits	No data <mark>available</mark>
Flammability	Not easily combustible
Log Kow	Not app <mark>licable (mixture)</mark>
Dynamic viscosity	No data <mark>available</mark>
Kinematic visc <mark>os</mark> ity	No data <mark>available</mark>
Melting point	No data <mark>available</mark>
Boiling point	No data <mark>available</mark>
Flash point	> 240 °C
Evaporation rate	No data <mark>available</mark>
Vapour pressure	No data <mark>available</mark>
Relative vapour density	No data <mark>available</mark>
Solubility	water ; i <mark>nsoluble</mark>
	organic <mark>solvents ; soluble</mark>
Relative density	1.4; 20 °C
Decomposition temperature	No data <mark>available</mark>
Auto-ignition temperature	No data <mark>available</mark>
Explosive properties	No chem <mark>ical group associated with ex</mark> plosive properties
Oxidising properties	No chem <mark>ical group associated with oxi</mark> dising properties
рН	No data <mark>available</mark>

Physical hazards

No physical hazard class

9.2 Other information:

Surface tension	No data available	
Absolute density	1400 kg/m³ ; 20 °C	

SECTION 10: Stability and reactivity

10.1 Reactivity:

Heating increases the fire hazard. No data available

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

No data available.

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10.4 Conditions to avoid:

Keep away from naked flames/heat.

10.5 Incompatible materials:

Water/moisture.

10.6 Hazardous decomposition products:

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours, hydrogen chloride.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

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No (test)data on the mixture available

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral	LD50	OECD 401	>5000 mg/kg bw		Rat	Male/female	Experimental value
Dermal	LD50	OECD 402	>3160 mg/kg bw	24 h	Rabbit	Male/female	Experimental value
Inhalation (aerosol)	LC50	OECD 403	>5266 mg/m³ air	4 h	Rat	Male/female	Experimental value

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral		Equivalent to OECD 423	3700 mg/kg bw	4 h	Rat	Male/female	Experimental value
Dermal	LD50	Equivalent to OECD 402	> 3170 mg/kg bw	24 h	Rat	Male/female	Experimental value
Inhalation (aerosol)	LC50	Equivalent to OECD 403	<u> </u>	4 weeks (daily, 5 days/week)	Rat	Male/female	Experimental value

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral	LD50	OECD 423	> 2000 mg/kg		Rat	Female	Experimental value
Dermal	LD50	OECD 402	>2000 mg/kg bw	24 h	Rat	Male/female	Experimental value
Inhalation (dust)	LC50	OECD 403	>5.11 mg/l air	4 h	Rat	Male/female	Experimental value

dioctylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Parameter	Method	Value	Exposure time	Species		Value determination
Oral	LD50	Other	2500 mg/kg		Rat	-	Literature
Dermal	LD50	OECD 402	>2000 mg/g		Rat	16.00	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating	OECD 405	24 h	24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value
Skin	Not irritating	Other	24 h	24; 48; 72 hours	Human	Experimental value

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Highly irritating	OECD 405	24 h	1; 24; 48; 72; 168 hours	Rabbit	Experimental value
Skin	Not irritating	OECD 404	24 h	24; 48; 72 hours	Rabbit	Experimental value

Reason for revision: 15.1 Publication date: 2010-09-06 Date of revision: 2013-05-10

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reaction mass of actadocanamida	12 hydroxy n [2 [/1 oxodoc	dlaminalathydl and n n' at	hana 1.2 divibie/12 bydrowy	octadecan-1-amide) and decanamide, n.n'-

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Slightly irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value
Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value

dioctylbis(pentane-2,4-dionato-O,O')tin

Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination
Eye	Not irritating					Literature study
Dermal	Not irritating					Literature study

Judgement is based on the relevant ingredients

Conclusion

Not classified as irritating to the skin Not classified as irritating to the eyes

Respiratory or skin sensitisation

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Result	Method		Observation time point	Species		Value determination
Skin	Not sensitizing	OECD 406	24 h	24; 48 hours	Guinea pig	Female	Read-across
Skin	Not sensitizing	Other	216 h	24; 48 hours	Human	Male/female	Experimental value

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

F	Route of exposure	Result	Method	Observation time point	Species		Value determination
9	Skin	Not sensitizing	OECD 406	24 hours	Guinea pig	Male/female	Experimental value

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide and d

point		determination
Skin Not sensitizing OECD 429 Mouse Fel	emale	Experimental value

dioctylbis(pentane-2,4-dionato-0,0')tin

Route of exposure	Result	Method		Species	Gender	Value
			point			determination
Skin	Sensitizing	OECD 429				Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified as sensitizing for skin

Specific target organ toxicity

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species		Value determination
Oral		Equivalent to OECD 408	≥5000 mg/kg bw/day		No effect	13 weeks (daily)	Rat	Male/femal e	Read-across
Inhalation (vapours)		Equivalent to OECD 413	>10400 mg/m³ air			13 weeks (6h/day, 5 days/week)	-	Male/femal e	Read-across

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	Species	 Value determination
Oral		Equivalent to OECD 408	<29 mg/kg bw/day		No effect	13 week(s)	Rat	Experimental value
Oral		Equivalent to OECD 408	29 mg/kg bw/day		Weight reduction	13 week(s)	Rat	Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for subchronic toxicity

Mutagenicity (in vitro)

FIX ALL HT

No (test)data on the mixture available

Reason for revision: 15.1 Publication date: 2010-09-06

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hydrocarhons	C13-C23	n-alkanes	isnalkanes	cyclics	<0.03% aromatics

Result	Method	Test substrate	Effect	Value determination
Negative	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Result	Method	Test substrate	Effect	Value determination
-0		Chinese hamster lung		Experimental value
activation, negative without		fibroblasts		
metabolic activation				
Negative with metabolic	OECD 473	Human lymphocytes		Experimental value
activation, negative without	J.			
metabolic activation				

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-

Result	Method	Test substrate	Effect	Value determination
Negative		Mouse (lymphoma L5178Y cells)		Experimental value
Negative	OECD 471	Bacteria (S.typhimurium)		Experimental value
Negative	OECD 473	Human lymphocytes	10	Experimental value

Mutagenicity (in vivo)

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Result	Method	Exposure time	Test substrate	Gender	Organ	Value determination
		8 weeks (6h/day, 5 days/week)	Mouse	Male	4.0	Read-across
	Equivalent to OECD 475		Rat	Male/female		Read-across
-0	Equivalent to OECD 474	7	Mouse	Male/female		Read-across

Carcinogenicity

FIX ALL HT

No (test)data on the mixture available

Reproductive toxicity

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method		Exposure time	Species	Gender	Effect	. 3	Value determination
Developmental toxicity	NOAEL		>1000 mg/kg bw/day	10 day(s)	Rat	7	No effect		Experimental value
Effects on fertility	NOAEC	Equivalent to OECD 416		13 weeks (6h/day, 5 days/week)	Rat	Male/female	No effect		Read-across
	NOAEC	Equivalent to OECD 421		8 weeks (6h/day, 5 days/week)	Rat	Male/female	No effect		Read-across
	NOAEL		>1000 mg/kg bw/d <mark>ay</mark>	6 weeks (daily)	Rat	Male/female	No effect		Read-across

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

		Parameter	Method		Exposure time	Species	Gender	Effect	. 3	Value determination
	Developmental toxicity	NOAEL (P/F1)		30 mg/kg bw/d <mark>ay</mark>		Rat	Male/female	Weight changes		Experimental value
2	ction mass of octadocanar	mide 12 hydro	vv n [2 [/1 ovc	docullaminolo	thull and n n'	othano 12 d	livlhic/12 hydro	wyoctadocan 1	amida) and de	ocanamido n n'

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-

		Parameter	Method		Exposure time	Species	Gender	Effect	· J	Value determination
Effe	cts on fertility	NOAEL		100 <mark>0 mg/kg</mark> bw/day		Rat	Male/female	No effect	r .	Experimental value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for carcinogenicity

Not classified for mutagenic or genotoxic toxicity

Reason for revision: 15.1 Publication date: 2010-09-06
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Not classified for reprotoxic or developmental toxicity

Toxicity other effects

FIX ALL HT

No (test)data on the mixture available

Chronic effects from short and long-term exposure

FIX ALL HT

No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

FIX ALL HT

No (test)data on the mixture available

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	>1028 mg/l	96 h	Scophthalmus maximus			Experimental value
Acute toxicity invertebrates	LC50	Other	>3193 mg/l	48 h	Acartia tonsa	233	100	Experimental value
Toxicity algae and other aquatic plants	ErC50	ISO 10253	>10000 mg/l	72 h	Skeletonema costatum	Del Li		Experimental value
Long-term toxicity fish	NOEL		>1000 mg/l	28 day(s)	Oncorhynchus mykiss			QSAR
Long-term toxicity aquatic invertebrates	NOEL	7	>1000 mg/l	21 day(s)	Daphnia magna			QSAR
Toxicity aquatic micro- organisms	EC50	OECD 209	>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	4.4 mg/l	96 h	Lepomis macrochirus	Flow-through system	Fresh water	Experimental value
Acute toxicity invertebrates	LC50	OECD 202	8.58 mg/l	48 h	Daphnia magna	Semi-static	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	1.1 mg/l	72 h	Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental value; Growth rate
	NOEC	OECD 201	0.05 mg/l		Pseudokirchneriel la subcapitata	Static system	Fresh water	Experimental value; Growth rate
Long-term toxicity aquatic invertebrates	EC50	OECD 211	0.96 mg/l	21 day(s)	Daphnia magna	Semi-static	Fresh water	Experimental value; Growth
	NOEC	OECD 211	0.23 mg/l	21 day(s)	Daphnia magna	Semi-static	Fresh water	Experimental value; Reproduction
Toxicity aquatic micro- organisms	IC50 	OECD 209	>100 mg/l	3 h	Activated sludge	Static system	Fresh water	Experimental value

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide,

n,n'-1,2-ethanediylbis-

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	NOEC	OECD 203	≥100 mg/l		Oncorhynchus mykiss	Static system		Experimental value; GLP
Acute toxicity invertebrates	LC50	OECD 202	94.9 mg/l	48 h	Daphnia magna	Static system		Experimental value; GLP
Toxicity algae and other aquatic plants	LC50	OECD 201	43.2 mg/l		Pseudokirchneriel la subcapitata	Semi-static		Experimental value; Growth rate
Toxicity aquatic micro- organisms	EC50	OECD 209	>1000 mg/l	3 h	Activated sludge	Static system		Experimental value; GLP

Reason for revision: 15.1 Publication date: 2010-09-06
Date of revision: 2013-05-10

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dioctylbis(pentane-2,4-dionato-0,0')tin

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	86 mg/l	96 h	Pisces	Static system		Experimental value
Acute toxicity invertebrates	EC50	OECD 202	58.6 mg/l	48 h	Daphnia magna	Static system		Experimental value
Toxicity algae and other aquatic plants	EC50	OECD 201	300 mg/l		Scenedesmus subspicatus	Static system		Experimental value

Classification of the mixture is based on the relevant ingredients and on application of the summation method

Conclusion

Not classified as dangerous for the environment according to the criteria of Directive 1999/45/EC

Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008

12.2 Persistence and degradability:

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Biodegradation water

	ivietnoa	value	Duration	value determination
	OECD 306: Biodegradability in Seawater	74 %	28 day(s)	Experimental value
Pł	nototransformation water (DT50 water)			
	Method	Value	Conc. OH-radicals	Value determination
Н	alf-life soil (t1/2 <mark>soil)</mark>			
	Method	Value	Primary	Value determination
			degradation/mineralisation	

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Biodegradation water

	Method	Value	Duration	Value determination	
	OECD 301B: CO2 Evolution Test	10-24 %	<mark>28 day(</mark> s)	Experimental value	
P	hototransformation air (DT50 air)		All		

Method	Value	Conc. OH-radicals	Value determination	
SRC AOP v1.92	2.54 h	500000 molecule/cm³	Calculated value	

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecy|)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-1,2-ethanediylbis-

Biodegradation water

Method	Value	Duration	Value determination
OECD 301D: Closed Bottle Test	60 %	28 day(s)	Experimental value

Conclusion

Contains non readily biodegradable component(s)

12.3 Bioaccumulative potential:

Log Kow

Method	Remark	Value	Temperature	Value determination
	Not applicable (mixture)		11 5	

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Log Kow

- 9		· ·		
Method	Remark	Value	Temperature	Value determination
	No data available			

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

Log Kow

Method	F	Remark	Value	Temperature	Value determination
			0.35		

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl]amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-1,2-ethanediylbis-

Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 117		8.6	25 °C	Experimental value

dioctylbis(pentane-2,4-dionato-0,0')tin

Log Kow

Method	Remark	Value	Temperature	Value determination
	No data available			

Conclusion

Contains bioaccumulative component(s)

Reason for revision: 15.1 Publication date: 2010-09-06 Date of revision: 2013-05-10

Revision number: 0201 Product number: 51088 10 / 14

12.4 Mobility in soil:

hydrocarbons, C13-C23, n-alkanes, isoalkanes, cyclics, <0.03% aromatics

Percent distribution

Method	Fraction air	 Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level III	8.3 %	83.2 %	7.4 %	1 %	Calculated value

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

(log) Koc

Parameter	Method	Value	Value determination
Koc	OECD 106	>=780<=16000	Experimental value
log Koc	OECD 106	>=2.89<=4.2	Experimental value

Volatility (Henry's Law constant H)

Value	Method	Temperature	Remark	Value determination
0 Pa.m³/mol	SRC HENRYWIN v3.20	25 °C	100	Calculated value

Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
Mackay level I	0.03 %	0 %	0.02 %	0.02 %	99.9 %	Calculated value

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecy|)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, n,n'-1,2-ethanediylbis-

(log) Koc

Parameter	Method	Value	Value determination
	OECD 121	5.4	Experimental value

Conclusion

No straightforward conclusion can be drawn based upon the available numerical values

12.5 Results of PBT and vPvB assessment:

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

12.6 Other adverse effects:

FIX ALL HT

Global warming potential (GWP)

None of the known components is included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006)

Ozone-depleting potential (ODP)

Not classified as dangerous for the ozone layer (Regulation (EC) No. 1272/2008 and 1005/2009)

bis(2,2,6,6-tetramethyl-4-piperidyl)sebacate

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

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

08 04 10 (waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other EURAL codes may be applicable. Can be considered as non hazardous waste according to Directive 2008/98/EC.

13.1.2 Disposal methods

Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber with energy recovery. Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment.

13.1.3 Packaging/Container

Waste material code packaging (Directive 2008/98/EC). 15 01 02 (plastic packaging).

SECTION 14: Transport information

Road (ADR)

Reason for revision: 15.1

14.1 UN number:

Transport	Not subject

Publication date: 2010-09-06

14.2 UN proper shipping name:

Date of revision: 2013-05-10

Revision number: 0201 Product number: 51088 11 / 14

14.3 Transport hazard class(es):		
Hazard identification number		
Class		
Classification code		
14.4 Packing group:	I	
Packing group		
Labels		
14.5 Environmental hazards:		
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:	lio	
Special provisions		
Limited quantities		
Rail (RID)		
14.1 UN number:		
Transport	Not subject	
14.2 UN proper shipping name:		4.1
14.3 Transport hazard class(es):		
Hazard identification number		
Class		
Classification code		55
14.4 Packing group:		The second secon
Packing group		
Labels	The second secon	
14.5 Environmental hazards:		
Environmentally hazardous substance mark	no	201
14.6 Special precautions for user:	110	
Special previous Special previous Special provisions		
Limited quantities		
Inland waterways (ADN)		
14.1 UN number:		
Transport	Not subject	
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):	-	
Class	-	
Classification code		
14.4 Packing group:		
Packing group		
Labels	100	
14.5 Environmental hazards:	75 55	
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:		
Special provisions		
Limited quantities		
Sea (IMDG/IMSBC)		
14.1 UN number:		
Transport	Not subject	
14.2 UN proper shipping name:		
14.3 Transport hazard class(es):		A 100
Class		
14.4 Packing group:		
Packing group		
Labels		74.00
14.5 Environmental hazards:		
Marine pollutant		
Environmentally hazardous substance mark	no	
14.6 Special precautions for user:		
Special provisions		
Limited quantities		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the	BC Code:	
Annex II of MARPOL 73/78		
eason for revision: 15.1	Publication date: 2010)-09-06

R Date of revision: 2013-05-10

12 / 14 Revision number: 0201 Product number: 51088

Air (ICAO-TI/IATA-DGR)

14.1 UN number:

Transport	Not subject
14.2 UN proper shipping name:	•
14.3 Transport hazard class(es):	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Passenger and cargo transport: limited quantities: maximum	net quantity

SECTION 15: Regulatory information

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

European legislation:

REACH Annex XVII - Restriction

Contains componentle

hydrocarbons, C13-C23, n-alkanes, oalkanes, cyclics, <0.03% aromatics	Liquid substances or mixtures which are	
	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 with ornamental aspects, 2. Articles not complying with paragraph 1 shall not be placed on the market.3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they: — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with R65 or H304,4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with R65 or H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach 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 2010.6. No later than 1 June 2014, the Commission shall request the European Chemicals Agency to prepare a dossier, in accordance with Ar
		If appropriate, grill lighter fluids and fuel for decorative lamps, labelled R65 or H304, intended for supply to the general public. 7. Natural or legal persons placing on the market for the fittine lamp oils and grill lighter fluids, labelled with R65 or H304, shall by 1 December 2011, and annually thereafter, provide data on alternatives to lamp oils and grill lighter fluids labelled R65 or H304 to the competent authority in the Member State concerned. Member States shall make those data available to the Commission.'
Volatile organic compounds (V	OC)	
2 %		
) %		

FΙ	Х	Α	LL	Н	Т

Waste identification (the Netherlands)	LWCA (the Netherlands): KGA category 05		
Waterbezwaarlijkheid	1		

National legislation Germany

FIX ALL HT

WGK	1; Classification water polluting based on the components in compliance with Verwaltungsvorschrift wassergefährdender
	Stoffe (VwVwS) of 27 July 2005 (Anhang 4)

reaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide, TA-Luft TA-Luft Klasse 5.2.5/I

National legislation France

Reason for revision: 15.1 Publication date: 2010-09-06 Date of revision: 2013-05-10

Revision number: 0201 Product number: 51088 13 / 14

FIX ALL HT

No data available

National legislation Belgium

FIX ALL HT

No data available

15.2 Chemical safety assessment:

No chemical safety assessment has been conducted.

SECTION 16: Other information

Information based on classification according to CLP

Full text of any R-phrases referred to under headings 2 and 3:

R36 Irritating to eyes

R43 May cause sensitisation by skin contact

R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, contact with skin and if swallowed

R51 Toxic to aquatic organisms

R52 Harmful to aquatic organisms

R53 May cause long-term adverse effects in the aquatic environment

R62 Possible risk of impaired fertility

R63 Possible risk of harm to the unborn child

R65 Harmful: may cause lung damage if swallowed

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

H304 May be fatal if swallowed and enters airways.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure in contact with skin.

H373 May cause damage to organs through prolonged or repeated exposure if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

(*) = INTERNAL CLASSIFICATION BY BIG

PBT-substances = persistent, bioaccumulative and toxic substances

DSD Dangerous Substance Directive
DPD Dangerous Preparation Directive

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

Specific concentration limits CLP

dioctylbis(pentane-2,4-dionato-O,O')tin	C > 5 %	Skin Sens. 1; H317	
Specific concentration limits DSD			
dioctylbis(pentane-2,4-dionato-0,0')tin	C > 5 %	Xi;R 43	

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