

Pegamentos - Polímeros - Silicones



FICHA TÉCNICA

Producto: Fix All Flexi

DESCRIPCIÓN: Fix All Flexi de Soudal de color gris es sellador y adhesivo con elasticidad permanente. Pega todos los materiales y superficies. Se puede pintar inmediatamente, sin solventes, sin olor. A prueba de agua, resistente a los hongos. No mancha granito, mármol o materiales delicados. Posee certificados DIN 53504, ISO 7389, disponible en envace de 290 ml

CÓDIGO: H-0761(Soudal)



OD.: H-0773(SOUDAL

Marca: Soudal	permanente. Pega todos los materiales y superficies.
Cartucho: 290 ml.	Se puede pintar inmediatamente, sin solventes, sin olor.
Conservación: 12 meses envase cerrado a +5° C - +25° C	A prueba de agua, resistente a los hongos. No mancha
Composición: pasta estable	granito, mármol o materiales delicados.
Color: Gris	Certificados: DIN 53504, ISO 7389
Elongación a rotura: 750%	Procedencia: Importado
Características: Sellador y adhesivo con elasticidad	



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Fix ALL Flexi

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Technical data

Basis	SMX Hybrid Polymer
Consistancy	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	$2 \text{ mm}/24h \rightarrow 3 \text{ mm}/24h$
Hardness	40 ± 5 Shore A
Density	1,67 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Temperature resistance	$-40 \ ^{\circ}C \rightarrow 90 \ ^{\circ}C$
Max. tension (DIN 53504)	1,80 N/mm²
Elasticity modulus 100% (DIN 53504)	0,75 N/mm²
Elongation at break (DIN 53504)	750 %
Application temperature	$5 ^{\circ}\text{C} \rightarrow 35 ^{\circ}\text{C}$

(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product description

Fix ALL Flexi is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on SMX Hybrid Polymer.

Properties

- Good extrudability
- Stays elastic after curing and very sustainable
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted with water based systems
- No odour.
- Very low emmission, EC1 PLUS R certified
- Impervious to mould, contains ZnP (biocide with fungicidal action)
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Colourfast.
- Good colour stability, weather and UV resistance

Applications

- Sealing and bonding in the building and construction industry.
- Strong elastic bonding in vibrating constructions.

- Sanitary applications.
- Sealing of floor joints.
- Sealing and bonding in the building and construction industry.

Packaging

Colour: white, black, grey, brown, beige *Packaging*: 290 ml cartridge

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Chemical resistance

Good resistance to water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis and (salt) water. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Remark: This technical data sheet replaces al previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions beyond our control, no liability under this publication are accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.





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Substrates

Substrates: all usual building substrates, natural stone, treated wood, PVC, plastics Nature: clean, dry, free of dust and grease. Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Surface Activator. The surfaces should be degreased before bonding them together. We recommend a preliminary adhesion test on every surface. Fix ALL Flexi has an excellent adhesion on most common substrates: all usual building substrates, natural stone, treated wood, PVC, plastics. Fix ALL Flexi has been tested on the following metal surfaces: steel, AlMqSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Fix ALL Flexi also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding. For optimum adhesion the use of Surface Activator is recommended. NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Fix ALL Flexi is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary compatibility test.

Joint dimensions

Min. width for bonding: 2 mm *Min. width for joints*: 5 mm *Max. width for bonding*: 10 mm *Max. width for joints*: 30 mm *Min. depth for joints*: 5 mm Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Application method: With manual- or pneumatic caulking gun. Cleaning: With Fix ALL Cleaner immediately after use. Finishing: With a soapy solution or Soudal

Finishing Solution before skinning. Repair: With the same material

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label for more information.

Remarks

- Fix ALL Flexi may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Fix ALL Flexi can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Fix ALL Flexi can not be used as a glazing sealant.
- Fix ALL Flexi can be used for adhering of and sealing on natural stone.
- When applying, make sure not to spill any sealant on the surface of materials.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap remainigs will stimulate the development of fungi.
- A total absence of UV can cause a color change of the sealant.

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Fix ALL Flexi

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Standards

Environmental clauses

Leed regulation:

Fix ALL Flexi conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED® 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. She is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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SAFETY DATA SHEET

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

Fix All Flexi

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1 Product identifier: Product name : Fix All Flexi Registration number REACH : Not applicable (mixture) Product type REACH : Mixture 1.2 Relevant identified uses of the substance or mixture and uses advised against: 1.2.1 Relevant identified uses Sealing compound 1.2.2 Uses advised against No uses advised against known 1.3 Details of the supplier of the safety data sheet: Supplier of the safety data sheet SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com Manufacturer of the product SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout **2** +32 14 42 42 31 +32 14 42 65 14 msds@soudal.com 1.4 Emergency telephone number: 24h/24h (Telephone advice: English, French, German, Dutch): +32 14 58 45 45 (BIG) SECTION 2: Hazards identification 2.1 Classification of the substance or mixture: 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: CIP No other hazards known DSD/DPD No other hazards known SECTION 3: Composition/information on ingredients 3.1 Substances: Not applicable Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Publication date: 2011-05-20 134-15960-462-en Technische Schoolstraat 43 A, B-2440 Geel Date of revision: 2015-03-27 http://www.big.be © BIG vzw Reason for revision: ATP4

Revision number: 0400

11000000110001.01100

3.2 Mixtures:

This mixture does not contain a <mark>ny r</mark>	otifiable substances		1			- i 1
Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to DSD/DPD	Classification according to CLP	Note	Remark
pyrithione zinc	13463-41- 236-671-3	-7 0.01% <c< 3 0.1%</c< 	T; R23 Xn; R22 Xi; R38 - 41 N; R50	Acute Tox. 3; H331 Acute Tox. 3; H301 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400	(1)(9)	Constituent
reaction mass of octadecanamide, [2-[(1-oxodecyl)amino]ethyl]- and r 1,2-diylbis(12-hydroxyoctadecan-1- decanamide, n,n'-1,2-ethanediylbis 01-2119545465-35	12-hydroxy-n- a,n'-ethane- amide) and -	1% <c<5%< td=""><td>R52-53</td><td>Aquatic Chronic 3; H412</td><td>(1)</td><td>Constituent</td></c<5%<>	R52-53	Aquatic Chronic 3; H412	(1)	Constituent
(1) For R-phrases and H-statements (9) M-factor, see heading 16	in full: see heading 16				1	
ECTION 4: First aid me	easures					
General: If you feel unwell, seek med After inhalation: Remove the victim into fresh After skin contact: Rinse with water. Soap may After eye contact: Rinse with water. Take victin After ingestion: Rinse mouth with water. Con 4.2 Most important sympton 4.2.1 Acute symptoms After inhalation: No effects known. After skin contact: No effects known. After eye contact: No effects known. After ingestion: No effects known. After ingestion: No effects known. After ingestion: No effects known. 4.2.2 Delayed symptoms No effects known. 4.3 Indication of any immeed If applicable and available it	ical advice. n air. Respiratory problem be used. Take victim to a n to an ophthalmologist i nsult a doctor/medical se ms and effects, bot liate medical attent will be listed below.	ion and specia	ar/medical service.	d		
ECTION 5: Firefighting	measures					
5.1 Extinguishing media: 5.1.1 Suitable extinguishing me Polyvalent foam. ABC powde 5.1.2 Unsuitable extinguishing No unsuitable extinguishing	dia: er. Carbon dioxide. nedia: media known.					
5.2 Special hazards arising f Upon combustion: formation	rom the substance (n of CO, CO2 and small qu	or mixture: Jantities of nitrou:	s vapours and formation	of metallic fumes.		
5.3 Advice for firefighters: 5.3.1 Instructions: No specific fire-fighting instr 5.3.2 Special protective equipm Gloves. Protective clothing.	uctions required. Ie nt for fire-fighters : Heat/fire exposure: comp	pressed air/oxyger	apparatus.			
ECTION 6: Accidental	release measu	res				
Reason for revision: ATP4			P	ublication date: 2011-05-20 Date of revision: 2015-03-27)	

Product number: 51156

6.1 Personal precautions	, protective equipment	and emergency procedures:
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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.

See heading 8.2

See nedding 0.2

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.

7.2 Conditions for safe storage, including any incompatibilities:

7.2.1 Safe storage requirements:

- Store in a dry area. Store at room temperature. Meet the legal requirements. Max. storage time: 1 year(s).
- 7.2.2 Keep away from: Heat sources.
- 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.

ong-term local effects dermal

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.
 - <u>b) National biological lim<mark>it values</mark></u>
 - If limit values are applica<mark>ble and available these will be listed b</mark>elow.
- 8.1.2 Sampling methods
- If applicable and available it will be listed below.
- 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

pyrithione zinc				
Effect level (DNEL/DN	1EL)	Туре	Value	Remark
DNEL		Long-term systemic effects dermal	0.01 mg/kg bw/day	
reaction mass of octade	canamide, 12	-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-et	hane-1,2-diylbis(12-hydroxyo	ctadecan-1-amide) and decanamide
Effect level (DNEL/DN	1EL)	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/m ³	
	Long-term local effects dermal		3.75 mg/cm ²	
		Long-term local effects inhalation	3 mg/m³	
DNEL - General populat	ion			
reaction mass of octade	canamide, 12	-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-et	hane-1,2-diylbis(12-hydroxyo	ctadecan-1-amide) and decanamide
Effect level (DNEL/DN	1EL)	Туре	Value	Remark
DNEL		Acute local effects dermal	11.2 mg/cm ²	
		Long-term systemic effects oral	0.56 mg/kg bw/day	

Reason for revision: ATP4

3.75 mg/cm²

PNEC					
pyrithione zinc					
Compartments		Value		Remark	
Fresh water		90 ng/l			
Salt water		90 ng/l			
STP		0.01 mg/l			
Fresh water sediment		0.0095 mg/kg sedime	ent dw		
Marine water sediment	t	0.0095 <mark>m</mark> g/kg sedime	ent dw		
Soil		<mark>8.85 mg/</mark> kg soil dw			
reaction mass of octadec	anamide, 12-hydroxy-n-[2-[(1	-oxodecyl)amino]eth	yl]- and n,n'-ethane-1,2-diylbi	s(12-hydroxyc	octadecan-1-amide) and decanamide,
Compartments		Value		Remark	
Fresh water		43.2 μg/l			
Salt water		4.32 μg/l			
STP		10 mg/l			
Fresh water sediment		1080 mg/kg sedimen	t dw		
Marine water sediment	t	108 mg/kg sediment	dw		
Soil		<mark>217 mg/</mark> kg soil dw			

8.1.5 Control banding

If applicable and available it will be listed below.

8.2 Exposure controls:

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

8.2.1 Appropriate engineering controls

Keep away from naked flames/heat. 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:

Eye protection not required in normal conditions.

d) Skin 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		aste				
Odour		<mark>naracteristic</mark> odour				
Odour threshold		<mark>o data availa</mark> ble				
Colour		riable in colour, depending on the composition				
Particle size		<mark>lo data availa</mark> ble				
Explosion limits		<mark>lo data avail</mark> able				
Flammability		lot easily combus	tible			
Log Kow		<mark>lot applicabl</mark> e (mi	ixture)			
Dynamic viscosity		<mark>lo data avail</mark> able				
Kinematic viscosity		<mark>lo data avail</mark> able				
Melting point		<mark>lo data avail</mark> able				
Boiling point		<mark>lo data avail</mark> able				
Flash point		<mark>lo data availa</mark> ble				
Evaporation rate		<mark>lo data avail</mark> able				
Relative vapour density		<mark>lo data availa</mark> ble				
Vapour pressure		<mark>lo data avail</mark> able				
Solubility		vater ; insoluble				
		rganic solvents ;	soluble			
Relative density		6				
Decomposition tempera	ture	<mark>lo data availa</mark> ble				
Auto-ignition temperatu	re	<mark>lo data avail</mark> able				
Explosive properties		<mark>lo chemical g</mark> rou	o associated with explosive properties			
Oxidising properties		lo chemical group	p associated with oxidising properties			
рН		<mark>lo data avail</mark> able				
ther information:						

<mark>No data avail</mark>able Surface tension 1600kg/m³ Absolute density Reason for revision: ATP4 Publication date: 2011-05-20 Date of revision: 2015-03-27

SECTION 10: Stability and reactivity					
10.1 Reactivity: Heating increases the fire	e 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.

10.5 Incompatible materials: No data available.

10.6 Hazardous decomposition products:

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours and formation of metallic fumes.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

11.1.1 Test results

Acute toxicity

Fix All Flexi

No (test)data on the mixture available

pyrithione zinc

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Remark
Oral	LD50	OECD 401	<mark>269mg/k</mark> g bw		Rat (male/female)	Experimental value	
Dermal	LD50	EPA OPP 81-2	<mark>> 2000m</mark> g/kg	24 h	Rat (male/female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	<mark>1.03mg/</mark> l air	4 h	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'-1,2-ethanediylbis-

Parameter	Method	Value	Exposure time	Species	Value	Remark
					determination	
LD50	OECD 423	<mark>> 2000m</mark> g/kg		Rat (female)	Experimental value	
LD50	OECD 402	<mark>> 2000m</mark> g/kg bw	24 h	Rat (male/female)	Experimental value	
LC50	OECD 403	<mark>> 5.11m</mark> g/l air	4 h	Rat (male/female)	Experimental value	
	Parameter LD50 LD50 LC50	ParameterMethodLD50OECD 423LD50OECD 402LC50OECD 403	Parameter Method Value LD50 OECD 423 > 2000mg/kg LD50 OECD 402 > 2000mg/kg bw LC50 OECD 403 > 5.11mg/l air	Parameter Method Value Exposure time LD50 OECD 423 > 2000mg/kg LD50 OECD 402 > 2000mg/kg bw 24 h LC50 OECD 403 > 5.11mg/l air 4 h	ParameterMethodValueExposure timeSpeciesLD50OECD 423> 2000mg/kgRat (female)LD50OECD 402> 2000mg/kg bw24 hRat (male/female)LC50OECD 403> 5.11mg/l air4 hRat (male/female)	ParameterMethodValueExposure timeSpeciesValue determinationLD50OECD 423> 2000mg/kgRat (female)Experimental valueLD50OECD 402> 2000mg/kg bw24 hRat (male/female)Experimental valueLC50OECD 403> 5.11mg/l air4 hRat (male/female)Experimental value

Judgement is based on the relevant ingredients

Conclusion

Not classified for acute toxicity

Corrosion/irritation

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No (test)data on the mixture available

pyrithione zinc

	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
	Eye	Serious <mark>eye</mark> damage	OECD 405	24 h	24 hours	Rabbit	Experimental value	
	Skin	Irritatin <mark>g</mark>					Literature study	
rea	action mass of octad	ecanamide, 12-hydı	oxy-n-[2-[(1-oxodeo	<mark>cyl)am</mark> ino]ethyl]- and	d n,n'-ethane-1,2-di	ylbis(12-hydroxyoct	adecan-1-amide) an	d decanamide, n,n'-
<u>1,2</u>	-ethanediylbis-							
	Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
	Eye	Slightly <mark>irritating</mark>	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	
	Skin	Slightly irritating	OECD 404	4 h	24; 48; 72 hours	Rabbit	Experimental value	

Judgement is based on the relevant ingredients

<u>Conclusion</u>

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

Respiratory or skin sensitisation

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	Result	Method	Fxnosi	ure time	Obse	rvation time	Species	Value	determination	Remark
	nosun		Expos		point		opolios	- and -		tomark
Skin	Not sensitiz	ing OECD 406			24; 4	8 hours	Guinea pig (female)	Experir	mental value	
Inhalation								Data w	vaiving	
eaction mass of octain	decanamide	e, 12-hydroxy-n-[2-	(1-oxodecyl)am	ino]ethyl]- a	and n,n	'-ethane-1,2-c	liylbis(12-hydroxyo	ctadec	an-1-amide) an	d decanam
Route of exposure	Result	Method	Exposi	ure time	Obse	rvation time	Species	Value	determination	Remark
					point					
Skin Idromont is based of	Not sensitiz	ing OECD 429					Mouse (female)	Experir	mental value	
nclusion lot classified as sensi lot classified as sensi ic target organ toxici <u>III Flexi</u>	tizing for sk tizing for inf ty	in nalation								
(test)data on the mi	xture availa	ble								
Route of exposure	e Paramete	er Method	Value	Organ	E	Effect	Exposure time	S	pecies	Value
Oral (stomach	ΝΟΔΕΙ	OFCD 453	0.5mg/kg			lo effect	98 - 104 weeks	R	at	determin
tube)		0200 100	bw/day				(daily)	(r	male/female)	value
Dermal	NOAEL	EPA OPP 82-3	100mg/kg bw/dav		1	No effect	13 weeks (6h/da days/week)	ıy, 5 R (r	at nale/female)	Experime value
Inhalation (dust)	LOAEL	EPA OPPTS	6mg/m ³ air		F	Respiratory	3 weeks (6h/day	,5 R	at	Experime
Inhalation (dust)	NOAEL	EPA OPPTS	2mg/m³ air		0 1	No effect	aays/week) 3 weeks (6h/day	(r ,5 R	nale/remale) at	vaiue Experime
. ,		870.3465	-				days/week)	(r	male/female)	value
<u>yrithione zinc</u> Result		Method		Test substi	rate	E	ffect		Value deter	mination
Negative with met activation, negativ metabolic activatio	tabolic re without on	OECD 471		Bacteria (S	5.typhim	nurium) N	lo effect		Experiment	al value
Negative with met	tabolic	OECD 476		Chinese ha fibroblasts	amster l	ung N	lo effect		Experiment	al value
Positive with meta activation, positive metabolic activation	abolic e without on	OECD 473		Chinese ha fibroblasts	amster I	ung C	Chromosome aberr	ations	Experiment	al value
eaction mass of octai	decanamide	e, 12-hydroxy-n-[2-	(1-oxodecyl)am	ino]ethyl]- a	and n,n	'-ethane-1,2-c	liylbis(12-hydroxyo	ctadec	an-1-amide) an	d decanam
Result		Method		Test subst	rate	F	ffect		Value deter	mination
Negative		OECD 476		Mouse (lyr	mphom	a L5178Y			Experiment	al value
				cells)						
Negative		OECD 471		Bacteria (S	.typhim	nurium)			Experiment	al value
Negative Negative		OECD 471 OECD 473		Bacteria (S Human lyn	5.typhim nphocy	nurium) tes			Experiment Experiment	al value al value
Negative Negative Je nicity (in vivo) <u>II Flexi</u> Io (test)data on the n <u>yrithione zinc</u>	nixture avai	OECD 471 OECD 473		Bacteria (S Human Iyn	5.typhim nphocy	tes			Experiment Experiment	al value al value
Negative Negative enicity (in vivo) II Flexi lo (test)data on the n <u>yrithione zinc</u> Result	nixture avai	OECD 471 OECD 473 lable Method	Ехро	Bacteria (S Human lyn	3.typhim nphocy	tes Test substra	ite Org	an	Experiment Experiment	al value al value e determin
Negative Negative enicity (in vivo) I <u>I Flexi</u> o (test)data on the n yrithione zinc Result Negative	nixture avai	OECD 471 OECD 473 lable Method OECD 474	Ехро	Bacteria (S Human Iyn	5.typhim nphocy	tes Test substra Mouse (mal	ite Org e/female) Bon	an e marr	Experiment Experiment Valu row Expe	al value al value e determin rimental v
Negative Negative Renicity (in vivo) II Flexi Io (test)data on the n yrithione zinc Result Negative ogenicity	nixture avai	OECD 471 OECD 473 lable Method OECD 474	Expo	Bacteria (S Human lyn	5.typhim nphocy	Test substra Mouse (mal	ite Org e/female) Bon	an e marr	Experiment Experiment Tow Expe	al value al value e determin erimental v
Negative Negative Il Flexi lo (test)data on the n yrithione zinc Result Negative ogenicity Il Flexi lo (test)data on the n	nixture avai	OECD 471 OECD 473 lable OECD 474 OECD 474	Expc	Bacteria (S Human lyn	5.typhim nphocy	Test substra Mouse (mal	ite Org e/female) Bon	an e marr	Experiment Experiment	al value al value e determin erimental v
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pyrithione zinc								
Route of exposure	Parameter	Method	Value	Exposure time	Species	Value determination	Organ	Effect
Oral		OECD 453		104 weeks (daily)	Rat (male/female)	Experimental value		No carcinogenic effect

Reproductive toxicity

Fix All Flexi

No (test)data on the mixture available

pyrithione zinc

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity	NOAEL	EPA OPP 83-3	0.5mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimental value
Maternal toxicity	LOAEL	EPA OPP 83-3	1.5mg/kg bw/day	13 day(s)	Rabbit (female)	Weight changes		Experimental value
	NOAEL	EPA OPP 83-3	0.5mg/kg bw/day	13 day(s)	Rabbit (female)	No effect		Experimental value
Effects on fertility	LOAEL (P/F1)	EPA OPPTS 870.3800	1.4mg/kg bw/day - 2.8mg/kg bw/day		Rat (male/female)	Loss of weight		Experimental value
	NOAEL (P/F1)	EPA OPPTS 870.3800	0.7 - 1.4		Rat (male/female)	No effect		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'-

	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Effects on fertility	NOAEL	OECD 421	<mark>1000m</mark> g/kg		Rat	No effect		Experimental
			<mark>bw/da</mark> y		(male/female)			value

Judgement is based on the relevant ingredients

Conclusion CMR

Not classified for reprotoxic or developmental toxicity Not classified for mutagenic or genotoxic toxicity Not classified for carcinogenicity

Toxicity other effects

Fix All Flexi

No (test)data on the mixture available

Chronic effects from short and long-term exposure

<u>Fix All Flexi</u> No effects known.

SECTION 12: Ecological information

12.1 Toxicity:

Fix All Flexi

No (test)data on the mixture available

pyrithione zinc

		Parameter	Method	Value	Duration	Species	Test design	Fresh/salt	Value determination
								water	
Acute toxicity fishes		LC50	EPA OPP 72-1	<mark>2.6µg</mark> /l	96 h	Pimephales	Flow-through	Fresh water	Experimental value;
						promelas	system		GLP
Acute toxicity invertebrates		EC50	EPA OPP 72-3	<mark>6.3μg</mark> /l	96 h	Americamysis	Flow-through	Salt water	Experimental value;
						bahia	system		GLP
Toxicity algae and other aqua	atic	ErC50	EPA OPP 122-	4.1µg/l	120 h		Static system	Fresh water	Experimental value;
plants			2						GLP
Toxicity aquatic micro-		EC50	OECD 209	<mark>2.4m</mark> g/l	3 h	Activated sludge	Static system		Experimental value;
organisms									GLP

Reason for revision: ATP4

Publication date: 2011-05-20 Date of revision: 2015-03-27

Acute toxicity fishes NOEC OECD 203 ≥ 100mg/l 96 h Oncorhynchus mykiss Static system Fresh water Experime GLP Acute toxicity invertebrates LC50 OECD 202 94.9mg/l 48 h Daphnia magna Static system Fresh water Experime GLP Toxicity algae and other aquatic LC50 OECD 201 43.2mg/l 72 h Pseudokirchnerie Semi-static Fresh water Experime Growth it Toxicity aquatic micro- organisms EC50 OECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water Experime Growth it Agement of the mixture is based on the relevant ingredients Inclusion Activated sludge Static system Fresh water Experime GLP Static CO2 Evoluton Test 39%, GLP 28 day(s) Experimental value Method Value Duration Value determination OECD 3018: CO2 Evoluton Test 39%, GLP 28 day(s) Experimental value Phototransformation air (DT50 air) Method Value Conc. OH-radicals Value determination ACPWIN 8.69h; GLP Conc. OH-radicals Value determination Experimental value	NOEC DECD 203 ≥ 100mg/l 96 h Oncorhynchus mykiss Static system Fresh water Experimental v GLP LC50 DECD 202 94.9mg/l 48 h Daphnia magna Static system Fresh water Experimental v GLP LC50 DECD 201 43.2mg/l 72 h Pseudokirchnerie Semi-static system Fresh water Experimental v Growth rate EC50 DECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water Experimental v Growth rate EC50 DECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water Experimental v Growth rate e environment according to the criteria of Regulation (EC) No 1272/2008 Static system Fresh water Experimental value Units 39%; GLP 28 day(s) Experimental value Experimental value air) Value Conc. OH-radicals Value determination % Subj; GLP Calculated value Experimental value % So water) Value Conc. OH-radicals Value determination % Subj; GLP Canculated value Experimental value Experimental valu
Acute toxicity invertebrates LC50 OECD 202 94.9mg/l 48 h Daphnia magna Static system Fresh water ExperimingLP Toxicity algae and other aquatic LC50 OECD 201 43.2mg/l 72 h Pseudokirchnerie Semi-static Fresh water ExperimingGP Toxicity algae and other aquatic LC50 OECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water ExperimingGP Toxicity aquatic micro- organisms EC50 OECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water ExperimingGP agement of the mixture is based on the relevant ingredients nclusion Activated sludge Static system Fresh water ExperimingGP 10 classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008 2.2 Persistence and degradability: yrithione 2 inc Biodegradation water Static system Fresh water Experimental value Method Value Duration Value determination Experimental value Experimental value OECD 3018: CO2 Evolution Test 39%; GLP 28 day(s) Experimental value AOPWIN 8.69h; GLP Calculated value	LCS0 OECD 202 94.9mg/l 48 h Daphnia magna Static system Fresh water Experimental v GLP LCS0 OECD 201 43.2mg/l 72 h Pseudokirchnerie Semi-static Fresh water Experimental v Growth rate ECS0 OECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water Experimental v Growth rate ECS0 OECD 209 > 1000mg/l 3 h Activated sludge Static system Fresh water Experimental v Growth rate on the relevant ingredients e environment according to the criteria of Regulation (EC) No 1272/2008 Static system Fresh water Experimental value Jability:
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gement of the mixture is based on the relevant ingredients nclusion ot classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008 .2 Persistence and degradability: vrithione zinc Biodegradation water Method Value Duration Value determination OECD 3018: CO2 Evolution Test 39%; GLP 28 day(s) Experimental value OECD 303A: Activated Sludge Units 98.8%; Activated sludge 35 day(s) Experimental value Phototransformation air (DT50 air) Method Value Conc. OH-radicals Value determination Other Conc. OH-radical	on the relevant ingredients e environment according to the criteria of Regulation (EC) No 1272/2008 dability: Value Duration Value determination st 39%; GLP 28 day(s) Experimental value Units ≥ 98.8%; Activated sludge 35 day(s) Experimental value air) Value Conc. OH-radicals Value determination 8.69h; GLP Conc. OH-radicals Value determination 8.69h; GLP Experimental value 50 water) Value Conc. OH-radicals Value determination 8.69h; GLP Experimental value 50 water) Value Primary Value determination 7.4day(s) - 12.9day(s); GLP Experimental value 7.4day(s) - 12.9day(s); GLP Experimental value
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value eaction mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca ,n'-1,2-ethanediylbis- Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamic
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Biodegradation water	
Method Value Duration Value determination	Value Duration Value determination
OECD 301D: Closed Bottle Test 60% 28 day(s) Experimental value	t 60% – 28 day(s) Evnerimental value
2.3 Bioaccumulative pot <mark>ential: <u>II Flexi</u> g Kow Method Remark Value Value</mark>	imponent(s)
Not applicable (mixture)	mponent(s)
	mponent(s)
	mponent(s) mark Value Temperature Value determination t applicable (mixture)
Pritnione zinc	mponent(s) mark Value Temperature Value determination t applicable (mixture)
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Method Value Duration Species Value determination BCF OECD 305 7.87 - 11 30 day(s) Crassostrea sp. Experimental value Log Kethod Remark Value Temperature Value determination OECD 107 0.9 25 °C Experimental value eaction mass of octade canamide, 12-hydroxy-n-[2-[(1-oxodecy])amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n,n'-1,2-ethanediylbis- Ualue Temperature Value determination Log Kow Kethod Remark Value Temperature Value determination OECD 107 8.6 25 °C Experimental value Cotto 117 8.6 25 °C Experimental value Inclusion Second Second Experimental value Cotto 117 8.6 25 °C Experimental value Inclusion Second Second Experimental value Value determination Second Second Experimental value Volatility (Henry's Law constart H) Immerature Remark Value determination Value <td< td=""><td>Imponent(s) Temperature Value determination mark Value Temperature Value determination t applicable (mixture) Imponent(s) Value Value Value Duration Species Value determination 7.87 - 11 30 day(s) Crassostrea sp. Experimental value Remark Value Temperature Value determination .12-hydroxy-n-[2-[(1-oxodecy)]amino]ethyll- and n,n'-ethane-1,2-divlbis(12-hydroxyoctadecan-1-amide) and decanamic Remark Value Remark Value Temperature Value determination 8.6 25 °C Experimental value nent(s) Value Temperature Value determination Kethod Temperature Remark Value determination Experimental value 25 °C Experimental value</td></td<>	Imponent(s) Temperature Value determination mark Value Temperature Value determination t applicable (mixture) Imponent(s) Value Value Value Duration Species Value determination 7.87 - 11 30 day(s) Crassostrea sp. Experimental value Remark Value Temperature Value determination .12-hydroxy-n-[2-[(1-oxodecy)]amino]ethyll- and n,n'-ethane-1,2-divlbis(12-hydroxyoctadecan-1-amide) and decanamic Remark Value Remark Value Temperature Value determination 8.6 25 °C Experimental value nent(s) Value Temperature Value determination Kethod Temperature Remark Value determination Experimental value 25 °C Experimental value
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n'-1,2-ethanediylbis- Biodegradation water	
n ¹ -1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodearadation water	
action mass of octadecanamide, 12-hydroxy-h-j2-j(1-oxodecyi)aminojethylj- and h,h-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca h-1,2-ethanediylbis- Biodegradation water	, 12-11yuruxy-11-12-1(1-0x00ecyi)aminojetriyi)- and n,n-ethane-1,2-diyibis(12-hydroxyoctadecan-1-amide) and decanami
n'-1,2-ethanediylbis- Biodearadation water	
n'- <u>1,2-ethanediylbis-</u> Biodearadation water	
n'-1,2-ethanediylbis- Biodegradation water	
Biodegradation water	
Biodegradation water	
Biodegradation water	
Biodegradation water	
Biodegradation water	
n'-1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodearadation water	
n'-1,2-ethanediylbis- Biodegradation water	
action mass or octadecanamide, 12-hydroxy-h-j2-j11-oxodecyljaminojetnylj- and h,n -ethane-1,2-divibis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	
action mass of octadecanamide, 12-hydroxy-n-[2-](1-oxodecyl)amino[ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	2. 12-hydroxy-n-12-1(1-oxodecyl)amino[ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	2, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
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action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	<pre>//.40ay(s) - 12.30ay(s); GLP [Experimental value /.12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami ////////////////////////////////////</pre>
EPA 161-1 [Experimental value] action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	/.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
LEPA 161-1 [7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanation and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanation n'-1,2-ethanediylbis- Biodegradation water Biodegradation Biodegradation	[7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
[EPA 161-1 [Z.4day(s) - 12.9day(s); GLP [Experimental value] action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanation n'-1,2-ethanediylbis- air -1,2-ethanediylbis- Biodegradation water Biodegradation Biodegradation	7.4day(s) - 12.9day(s); GLP Experimental value . 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
LEPA 161-1 [7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanation and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanation n'-1,2-ethanediylbis- Biodegradation water Biodegradation Biodegradation	[7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanological structure n'-1,2-ethanediylbis- Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decann'-1,2-ethanediylbis- Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan's and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan's n'-1,2-ethanediylbis- Biodegradation water Biodegradation water Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan's and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan's n'-1,2-ethanediylbis- Biodegradation water Biodegradation water Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decann'-1,2-ethanediylbis- Biodecradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan-1-amide) and decanamide n'-1,2-ethanediylbis- Biodecaradation water Biodecaradation water Biodecaradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decann'-1,2-ethanediylbis- Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decan'-1,2-ethanediylbis- Biodegradation water	7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 [7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decann'-1,2-ethanediylbis- Biodegradation water	[7.4day(s) - 12.9day(s); GLP Experimental value , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
EPA 161-1 [7.4day(s) - 12.9day(s); GLP Experimental value action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	[7.4day(s) - 12.9day(s); GLP [Experimental value] , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	<pre>//doay(s) - 12.9day(s); GLP [Experimental value] , 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam </pre>
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodecradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	2, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	2.12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca 1'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca y-1,2-ethanediylbis- iodegradation water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanami
n ¹ -1,2-ethanediylbis- 3iodegradation water	
n'- <u>1,2-ethanediylbis-</u> Biodegradation water	
n ¹ -1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- 3iodegradation water	
i-1,2-ethanediylbis-	
V-1,2-ethanediylbis-	
n'-1,2-ethanediylbis- Biodegradation water	
n'-1,2-ethanediylbis- Biodegradation water	
i'-1,2-ethanediylbis-	
iodegradation water	
-1,2-ethanediylbis- iodegradation water	
iodegradation water	
i-i-j2-ethanedrylois-	
Experimental value <u>n,n'-1,2-ethanediylbis-</u> Biodegradation water	Experimental value <u>Experimental value</u> <u>Experimental value</u> <u>Experimental value</u> <u>Experimental value</u> <u>Experimental value</u>
7.4day(s) - 12.9day(s); GLP Experimental value of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca diylbis- on water	7.4day(s) - 12.9day(s); GLP Experimental value 2.12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanamide
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanam
action mass of octadecanamide, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and deca n'-1,2-ethanediylbis- Biodegradation water	, 12-hydroxy-n-[2-[(1-oxodecyl)amino]ethyl]- and n,n'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) and decanan
action mass or octabecanamide, 12-hydroxy-h-j2-j11-oxodecy/jaminojethyl- and h,h -ethane-1,2-divibis(12-hydroxyoctabecan-1-amide) and deca al-1,2-ethanedivibis- Biodegradation water	
<u>n'-1,2-ethanediyibis-</u> Biodegradation water	
Biodegradation water	
OECD 301D: Closed Bottle Test 60% 28 day(s) Experimental value	t 60% 28 day(s) Experimental value
DECD 301D: Closed Bottle Test 60% 28 day(s) Experimental value	t128 day(s) Experimental value
actusion contains readily biodegradable component(s)	
nclusion ontains readily biodegradable component(s)	
iciusion	
antains readily biodegradable component(s)	
nclusion Dontains readily biodegradable component(s)	
nclusion ontains readily biodegradable component(s)	
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loc o soro, cosea sortie lest lovo 28 day(s) Experimental value	I I I I I I I I I I I I I I I I I I I
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DECD SULD: Closed Bollie Test b0% [28 day(s) Experimental value	IVX dav(s) IFvnerimental value
UECD SOLD. Closed Bottle lest p0% 28 day(s) Experimental value	I I I I I I I I I I I I I I I I I I I
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Parameter	B 0 - +11	N / - 1	
	OECD 121	5.4	Experimental value
<u>clusion</u> ntains component(s) that ad <mark>sorb(s) into the soil</mark>			
5 Results of PBT and vPvB assessment: ie to insufficient data no statement can be made w gulation (EC) No 1907/2006.	whether the component(s) fulfil(s) the c	riteria of PBT and vPvB accor	ding to Annex XIII of
6 Other adverse effects: Flexi			
e of the known components <mark>is included in the list of ne-depleting potential (ODP)</mark> classified as dangerous for <mark>the ozone layer (Regula</mark>	of fluorinated greenhouse gases (Regul ition (EC) No 1005/2009)	ation (EC) No 517/2014)	
rithione zinc Global warming potential (GWP) Not included in the list of fluorinated greenhouse g	ases (Regulation (EC) No 517/2014)		
action mass of octadecanamide, 12-hydroxy-n-[2-[canamide, n,n'-1,2-ethanediylbis- Global warming potential (GWP)	(1-oxodecyl)amino]ethyl]- and n,n'-eth	ane-1,2-diylbis(12-hydroxyoc	tadecan-1-amide) and
Not included in the list of fluorinated greenhouse g	ases (Regulation (EC) No 517/2014)		
ON 13: Disposal consideration	ons		
information in this section is a general description. arios that correspond to your identified use.	. If applicable and available, exposure s	cenarios are attached in ann	ex. Always use the relevant expos
1 Waste treatment methods: 13.1.1 Provisions relating to waste			
Waste material code (Directive 2008/98/EC, E 08 04 10 (wastes from MFSU of adhesives and 08 04 09). Depending on branch of industry and waste according to Directive 2008/98/EC.	Decision 2000/0532/EC). I sealants (including waterproofing pro and production process, also other wast	ducts): waste adhesives and e codes may be applicable. C	sealants other than those mentio an be considered as non hazardo
I3.1.2 Disposal methods Recycle/reuse. Remove waste in accordance v I3.1.3 Packaging/Container	with local and/or national regulations.	Do not discharge unmonitore	ed into the environment.
Waste material code packaging (Directive 200 15 01 02 (plastic packaging).	18/98/EC).		
ON 14: Transport informatio	n		
ad (ADR)			
L4.1 UN number:	Niet er bie et		
Iransport	Not subject		
14.2 UN proper snipping name:			
14.2 ON proper snipping name: 14.3 Transport hazard class(es):			
H4.2 UN proper snipping name: A.3 Transport hazard class(es): Hazard identification number			
L4.2 UN proper shipping name: L4.3 Transport hazard class(es): Hazard identification number Class Classification code			
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group:			
A.2 UN proper shipping name: A.3 Transport hazard class(es): Hazard identification number Class Classification code A.4 Packing group: Packing group			
14.2 UN proper shipping harne: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels			
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code L4.4 Packing group: Packing group Labels L4.5 Environmental hazards:			
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark	no		
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Control of the substance mark	no		
14.2 UN proper shipping harne: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities	no		
14.2 ON proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities	no		
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities	no		
14.2 UN proper shipping name: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities I (RID) 14.1 UN number:	no		
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark L4.6 Special precautions for user: Special provisions Limited quantities I (RID) I4.1 UN number: Transport	no Not subject		
14.2 UN proper shipping hame: 14.3 Transport hazard class(es): Hazard identification number Class Classification code 14.4 Packing group: Packing group Labels 14.5 Environmental hazards: Environmentally hazardous substance mark 14.6 Special precautions for user: Special provisions Limited quantities I (RID) I4.1 UN number: Transport Labels I4.2 UN proper shipping name:	no Not subject		

14.3 Transport hazard class(es):	
Hazard identification number	
Classification code	
14.4 Packing group.	
Packing group	
Labels	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
Limited quantities	
Inland waterways (ADN)	
Inianu 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	
14.5 Environmental hazards:	
Environmentally hazardous substance mark	no
14.6 Special precautions for user	
Sea (IMDG/IMSBC)	
14.1 LIN number:	
Transport	Netsubject
	Not subject
14.2 UN proper snipping name:	
14.3 Transport hazard class(es):	
Class	
14.4 Packing group:	
Packing group	
Labels	
14.5 Environmental hazards:	
Marine pollutant	-
Environmentally hazardous substance mark	no
14.6 Special precautions for user:	
Special provisions	
14.7 Transport in bulk according to Annov II of MADDOL 72/78 and the	
14.7 Transport in burk according to Annex if of MARPOL 73/78 and the	ibc code.
Annex II of MARPOL 73/78	
Air (ICAO-TI/IATA-DGR)	
14.1 LIN number:	
Iransport	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 pet qu	lantity
ner nackaging	
SECTION 15: Regulatory information	
SECTION 13. Regulatory information	
15.1 Safety, health and environmental regulations/legislat	tion specific for the substance or mixture:
European legislation:	
VOC content Directive 2010/75/EU	
Reason for revision: ATP4	Publication date: 2011-05-20
	Date of revision: 2015-03-27

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