

Revision number: 0304

## SAFETY DATA SHEET

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

## **Fix All Flexi**

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier : Fix All Flexi Product name **Registration number REACH** : Not applicable (mixture) Product type REACH : Mixture 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1 Relevant identified uses Sealant 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 sds@soudal.com Manufacturer of the product SOUDAL N.V. Everdongenlaan 18-20 B-2300 Turnhout +32 14 42 42 31 **→** +32 14 42 65 14 sds@soudal.com 1.4. Emergency telephone number 24h/24h : +32 14 58 45 45 (BIG) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 2.2. Label elements Not classified as dangerous according to the criteria of Regulation (EC) No 1272/2008 2.3. Other hazards No other hazards known SECTION 3: Composition/information on ingredients 3.1. Substances Not applicable 3.2. Mixtures Name CAS No Conc. (C) Classification according to CLP Note Remark **REACH Registration No** EC No reaction mass of: N,N'-ethane-1,2-432-430-3 0.25%<C<2.5 Aquatic Chronic 4; H413 Constituent diylbis(hexanamide)/12-hydroxy-N-[2-[(1oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide) 01-0000017860-69 (1) For H-statements in full: see heading 16 134-15960-670-en Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Publication date: 2013-02-18 Technische Schoolstraat 43 A, B-2440 Geel Date of revision: 2019-07-09 http://www.big.be © BIG vzw Reason for revision: 1.4

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### 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:

Rinse with water. Soap m<mark>ay be used. Take victim to a doctor if</mark> irritation persists.

#### After eye contact:

Rinse with water. Remove contact lenses, if present and easy to do. Continue rinsing. Do not apply neutralizing agents. Take victim to an ophthalmologist if irritation persists.

#### After ingestion:

Rinse mouth with water. 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: ON CONTINUOUS EXPOSURE/CONTACT: Tingling/irritation of the skin. After eye contact:

No effects known. 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: Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (not alcohol-resistant).

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

Major fire: Water; risk of puddle expansion.

#### 5.2. Special hazards arising from the substance or mixture

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 (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: compressed air apparatus (EN 136 + EN 137).

### SECTION 6: Accidental release measures

6.1. Personal precaution	s, protective equipment and e	mergency 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 (EN 374). Protective clothing (EN 14605 or EN 13034) Suitable protective clothing
    - See heading 8.2

#### 6.2. Environmental precautions

Contain released product. 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 an excess of water. Wash clothing and equipment after handling.

#### 6.4. Reference to other sections

See heading 13.

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#### Publication date: 2013-02-18 Date of revision: 2019-07-09

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SECTION 7: Handling	and sto	orage				
The information in this section i scenarios that correspond to yo	s a general de ur identified	escription. If app use.	licable and available, exp	osure scenarios are attache	d in annex. Alway	's use the relevant exposure
7.1. Precautions for safe Keep away from naked flam		erve normal hyg	iene standards.			
7.2. Conditions for safe s 7.2.1 Safe storage requirem		cluding any i	ncompatibilities			
		e legal requireme	<mark>ents. Max</mark> . storage time: 1	year(s).		
7.2.2 Keep away from:						
Heat sources. 7.2.3 Suitable packaging ma	torial					
Synthetic material.	iteriai.					
7.2.4 Non suitable packagin No data available	g material:					
7.3. Specific end use(s)	e, exposure s	cenarios are att	ached in annex. See inforr	nation supplied by the man	nufacturer	
SECTION 8: Exposure	contro	ls/persor	al protection			
8.1. Control parameters						
8.1.1 Occupational exposur						
a) Occupational exposur						
If limit values are applica		able these will b	e listed below.			
<u>b) National biological lin</u> If limit values are applica		able these will b	e listed below			
8.1.2 Sampling methods			c listed below.			
If applicable and availabl						
8.1.3 Applicable limit values If limit values are applica	s when using	the substance of the substance of the substance of the second sec	or mixture as intended			
8.1.4 Threshold values	idle al lu avail		e listed below.			
DNEL/DMEL - Workers						
reaction mass of: N,N'-e	thane-1,2-diy	lbis(hexanamide	e <mark>)/12-hyd</mark> roxy-N-[2-[(1-oxy	hexyl)amino]ethyl]octadec	anamide/N,N'-etl	hane-1,2-diylbis(12-
hydroxyoctadecanamide Effect level (DNEL/DM	<u>)</u> IEL)	Turno		Value	F	Remark
DNEL		Type	emic effects inhalation	35.24 mg/m <sup>2</sup>		lemark
DIVLL			emic effects dermal	10 mg/kg by		
DNEL/DMEL - General p						
		Ibis(hexanamide	e)/12-hydroxy-N-[2-[(1-oxy	hexyl)amino]ethyl]octadec	anamide/N,N'-etl	hane-1,2-diylbis(12-
hydroxyoctadecanamide Effect level (DNEL/DM	<u>)</u> IFL)	Туре		Value	F	Remark
DNEL		Long-term syste	emic effects oral	5 mg/kg bw/		lonium
PNEC						
		Ibis(hexanamide	e)/12-hydroxy-N-[2-[(1-oxy	hexyl)amino]ethyl]octadec	anamide/N,N'-etl	hane-1,2-diylbis(12-
hydroxyoctadecanamide Compartments	<u>9</u>		Value		Remark	
Fresh water			0.009 mg/l			
Marine water			0.001 mg/l			
Fresh water (intermitte	ent releases)		3.7 mg/l			
STP			100 mg/l			
Fresh water sediment Marine water sedimen	+		384 mg/kg sediment dw 38.4 mg/kg sediment dw			
Soil			52.1 mg/kg soil dw			
Oral			222.2  mg/kg food			
8.1.5 Control banding						
If applicable and availabl	e it will be lis	ted below.				
8.2. Exposure controls						
			<mark>applicabl</mark> e and available, e	exposure scenarios are atta	ched in annex. Alv	ways use the relevant exposure
scenarios that correspond to 8.2.1 Appropriate engineeri		ied use.				
		Carry operations	in the open/under local e	xhaust/ventilation or with i	respiratory protec	ction.
8.2.2 Individual protection	neasures, su	ch as personal p	rotective equipment			
Observe normal hygiene	standards. D	o not eat, drink	or smoke during work.			
a) Respiratory protection: Respiratory protection n	ot required in	normal conditi	ons.			
b) Hand protection:	or required in					
Gloves.						
Reason for revision: 1.4					date: 2013-02-18	
				Date of revis	sion: 2019-07-09	
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<u>c) Eye protection:</u> Safety glasses. <u>d) Skin protection:</u> Protective clothing (EN 14605 or EN 1 8.2.3 Environmental exposure controls: Soc bacdiage (2, 4, 2, and 1)	1034).
See headings 6.2, 6.3 and 13	
ECTION 9: Physical and che	nical properties
9.1. Information on basic physical a	
Physical form Odour	Paste Characteristic odour
Odour threshold	No data available
Colour	Variable in colour, depending on the composition
Particle size	No data available
Explosion limits	No data available Non-flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available
Kinematic viscosity	No data available
Melting point	No data available
Boiling point	No data available
Evaporation rate	No data available
Relative vapour density Vapour pressure	No data available No data available
Solubility	Water ; insoluble           Organic solvents ; soluble
Relative density	1.6 ; 20 °C
Decomposition temperature	No data available
Auto-ignition temperature	No data available
Flash point Explosive properties	No data available           No chemical group associated with explosive properties
Oxidising properties	No chemical group associated with explosive properties
pH	No data available
9.2. Other information	
Surface tension	No data available
Absolute density	1600 kg/m <sup>3</sup> ; 20 °C
ECTION 10: Stability and rea	activity
10.1. Reactivity Heating increases the fire hazard. No	lata available.
10.2. Chemical stability Stable under normal conditions.	
10.3. Possibility of hazardous react No data available.	ons
10.4. Conditions to avoid	
Precautionary measures Keep away from naked flames/heat.	
10.5. Incompatible materials No data available.	
10.6. Hazardous decomposition pro Upon combustion: formation of CO, C	ducts D2 and small quantities of nitrous vapours, hydrogen chloride.
ECTION 11: Toxicological in	ormation
11.1. Information on toxicological	
cute toxicity	
<u>Fix All Flexi</u> No (test)data on the mixture available Judgement is based on the rel <mark>evant ingredi</mark>	ents
Reason for revision: 1.4	Publication date: 2013-02-18 Date of revision: 2019-07-09
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Notice of caposule         Parameter         Motion         Name         Paposare time         Spocies         Motion         Parameter           During of all         1050         2000 rg/s         Ref.         Net all information         Net all information           Derived of the outer study         1050         2000 rg/s         Ref.         Net all information           Concident of the outer study         1050         2000 rg/s         Ref.         Net all information           Field Point         Net all information information and information informat			/lbis(hexanamic	de)/12-hydro	<mark>xy-</mark> N-[2-[(1-o)	(yhexyl)amino]ethyl]	octadecanamid	e/N,N'-ethane-1,2-diylb	<u>is(12-</u>
Image: Section of the result of the section of the resect of the result of the section of the result of the s			Mathad	Volu		Europure time	Species	Value	Domorte
Immution         0.00         2.000 mp/sg         Bat         Unrefure study           Concluion         Data sensity           Model defined or data to totally           Concluion         Data sensity           Model defined or data totality           Concluion         Data sensity           Model defined on the induce available         Addition of the induce sensity           A full defined on the induce available         Defined on the induce sensity           Model defined on the induce available         Defined on the induce sensity           Model defined on the induce available         Defined on the induce sensity           Model defined on the induce available         Defined on the induce sensity           Model defined on the induce sensity         Defined on the induce sensity           Defined on the induce induced in the induce sensity         Defined on the induce induced induc	Route of exposure	Parameter	Method	Valu	e	exposure time	species		Remark
Implicit         Data waving           Not disabled for acute toxicity           Conclusion Not disabled for acute toxicity           Example           Ref Ref Notice           Not disabled for acute toxicity           Example           Not disabled for acute toxicity           Example           Example           Not disabled for acute toxicity           Example           Not disabled on the moture evaluable           Judgement is based on the relevant ingredients           Example           Example </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>, , , , , , , , , , , , , , , , , , ,</td> <td></td>								, , , , , , , , , , , , , , , , , , ,	
Conclusion Not classified or nuclei toxicity         Image: Classified and the induce evaluable toxics of the region of the		LD50		> 200	00 mg/kg		Rat	,	
Not classified for acute toxicity         Carcinoministicity         Pain Head         Not classified for acute toxicity         Not classified for acute toxicity         Not classified for acute toxicity         Pain Head         Not classified for acute toxicity         Pain Head         Not classified as sensitivation         Paint Head         Not classified as sensitivation (not perform in the proteins)         Paint Head         Not classified as sensitivation (or classified as sensitivation)         Paint Head         Paint Head         Not classified as sensitivation (or classified as sensitivation)         Paint Head         Paint Head<								Data waiving	
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EARL Hear       No. (1995) Geta on the miniture available         Ledgement is based on the relevant ingredients       Topsoure time       Observation time       Decision       Value determination/Remark       Image: Comparison of the Comparis	No (test)data on the mix Judgement is based on t <u>Conclusion</u> Not classified as irritatin Not classified as irritatin	the rel <mark>evant i</mark> ig to th <mark>e skin</mark> ig to th <mark>e eyes</mark>	ngredients						
No (esclutate on the mixture available budgment is based on the relevant ingredients reaction mass of N.V ethane. 1.2 diplications (V.2. Proposure time point       Description (V. ethane. 1.2. diplications)         Route of exposure Not classified as sensitizing of roll making Not classified as roll making Not classified as roll making Not classified as roll making Not roll classified for subchronic toxicity Not resident making Not roll classified for subchronic toxicity Not resident making Not resident as relevant ingredients president making Not resident as roll not mixture available budgment is based on the relevant ingredients reaction making Not resident as relevant ingredients reaction making Not resident on the relevant ingredients reaction making Not resident as relevant ingredients reaction making Not resident as relevant ingredients reaction making Not resident on the relevant ingredients reaction makingredients reaction making Not resident on the relevant	Respiratory or skin sensitisat	tion							
Sin         Not sensitizing         DECD 429         Mouse         Experimental value           Conclusion Not classified as sensitizing for inhalation         Specific target organ toxicity         Image: Conclusion inhalation         Image: Conclusion inhalation           Field Head Not (essified as sensitizing for inhalation         Specific target organ toxicity         Image: Conclusion inhalation         Image: Conclusion inhalation           Field Head Not (essified as on the mixture available adgement is based on the relevant ingredients reaction mask in Net chance 1.2-divibis/field main inhalation         Image: Conclusion inhalation         Image: Conclusion inhalation           Not a classified for subchronic toxicity         Not effect         20 days)         Not effect         20 days)         Nat           Intermediation inhalation         Intermination inhalation         Intermination inhalation         Intermination           Not classified for subchronic toxicity         Not effect         20 days)         Nat         Intermination           Intermination inhalation         Intermination inhalation         Intermination         Intermination         Intermination           Intermination inhalation         Not effect         20 days)         Not effect         20 days)         Rat         Uterature study           Intermination         Intermination         Interelevant ingredients         Interature study	No (test)data on the mix Judgement is based on t <u>reaction mass of: N,N'-e</u> hydroxyoctadecanamide	the rel <mark>evant i</mark> e <u>thane-1,2-dive</u>	ngredients /lbis(hexanamic						
Conclusion Not classified as sensitizing for skin Not classified as sensitizing for inhalation         Specific target organ toxicity         FixAl Fload         No (test)data on the mixture available Judgement is based on the relevant ingredients reaction mass of: NN - thema-1.2-div/bis/floagnamide//12-hydroxy-N12/(1-oxyhexy/taminolethy/loctadecanamide/NN-ethane-1.2-div/bis/f12- by/doxyoctadecanamide)         Conclusion Not classified for subchronic toxicity         Mutagenicity (n vitro)         FixAl Fload Not classified for subchronic toxicity         Mutagenicity (n vitro)         FixAl Fload Not classified for subchronic toxicity         Mutagenicity (n vitro)         FixAl Fload Not classified for subchronic toxicity         Mutagenicity (n vitro)         FixAl Fload Not classified for subchronic toxicity         Mutagenicity (n vitro)         FixAl Fload Not classified for nuture available Judgement is based on the relevant ingredients reaction mass of: NN - ethane-1.2 div/bis/floagnamide//12-hydroxy N 12 (10-oxyhexy/baninolethy/loctadecanamide/NN - ethane-1.2 div/bis/f12- hydroxyccladenamide)         Wutagenicity (n vitro)         FixAl Fload Not classified for mutagenic or genotoxic toxicity         Conclusion Not classified for mutagenic or genotoxic toxicity         Conclusion Not classified for carcinogenicity         FixAl Floai Not classified for carcinogenicity         Publication date: 2013-02-18 Dudgenerit based on the relevant ingredients Conclusion No				Exp	oosure time		e Species	Value determinati	onRemark
Tot classified as sensitizing for ishinal ton         Not classified as sensitizing for inhibitation         Specific target organ toxicity         FX AIT foot         Not classified as a sensitizing for inhibitation         Specific target organ toxicity         Previous of the mixture available         Ludgement is based on the relevant ingredients         reaction mass of: NN+ethane-12-divibis/D2-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxy-N12-(11-oxyhexylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadecanamide/NN+ethane-12-divibis(12-thydroxylaminolethylloctadec		ot sensitizing	OECD 429				Mouse	Experimental value	9
FixII Fleat No (est)data on the mixture available       Addeement is based on the relevant ingredients         action mass of: NN-rethane-1.2 divibis/hexanamide)/12-hydroxy-N-12-[(1-oxyhexyhaminolethylloctadecanamide/N.N'-ethane-1.2-divibis/12: hydroxyocitadecanamide/ Oral       No effect       28 day(s)       Rat       Iterature study         Drata       NO AEL       1000 mg/kg       No effect       28 day(s)       Rat       Iterature study         Conclusion No (tassified for subchronic toxicity       Witerature study       No effect       28 day(s)       Rat       Iterature study         Modegement is based on the relevant ingredients degement is based on the relevant ingredients dudgement is based on the relevant ingredient	Not classified as sensitiz		tion						
No (test)data on the mixture available Judgement is based on the relevant ingredients reaction mass of: N.N'-ethane-1.2-div/bis(hexanamide)/12-hydroxy-N-12-1(1-ox/hexy/)aminolethy/loctadecanamide/N.N'-ethane-1.2-div/bis(12- treation mass of: N.N'-ethane-1.2-div/bis(hexanamide)/12-hydroxy-N-12-1(1-ox/hexy/)aminolethy/loctadecanamide/N.N'-ethane-1.2-div/bis(12- mixture study) <b>Mute of exposure Parameter Method Value Valu</b>	Specific target organ toxicity								
Image: Conclusion     Image: Conclusion     Image: Conclusion       Oral     NOAEL     b000 mg/kg     No effect     28 day(s)     Rat     Literature study       Outclassified for subchronic toxicity     Models assified for subchronic toxicity     Models assified for subchronic toxicity       Mutagenicity (in vitro)     Fix All Flexi     No (test)data on the mixture available Judgement is based on the relevant ingredients reaction mass of: NN-rethane-1.2-divibis/hexanamide//12-hydroxy-N-12-[(1-ox/hexyl)aminolethylloctadecanamide/NN-rethane-1.2-divibis/12- hydroxyoctadecanamide)       Mutagenicity (in vivo)     Fix All Flexi     Bacteria (S typhimurium)     Literature study       Mutagenicity (in vivo)     Fix All Flexi     Bacteria (S typhimurium)     Literature study       Mutagenicity (in vivo)     Fix All Flexi     No (test)data on the mixture available Judgement is based on the relevant ingredients     Conclusion       No (test)data on the mixture available Judgement is based on the relevant ingredients     Conclusion     Excellent       No (test)data on the mixture available Judgement is based on the relevant ingredients     Conclusion     Publication date: 2013-02-18 Date of revision: 2019-07-09	No (test)data on the mixtu Judgement is based on t reaction mass of: N,N'-e hydroxyoctadecanamide	the rel <mark>evant i</mark> <u>thane-1,2-dive</u>	/Ibis(hexanamic	-					
Image: Conclusion Not classified for subchronic toxicity       Mutagenicity (in vitro)       Fix All Flexi Not (ess)/data on the mixture available Judgement is based on the relevant ingredients reaction mass of: NN-reltance: 1.2-div/bis/thexanamide)/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-N-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis/12-hydroxy-I2-[(1-oxyhexy/JaminoTethyIloctadecanamide/N.N-ethane-1.2-div/bis	Route of exposure	Parameter I	Viethod	Value	Organ	Effect	Exposure time	Species	
Not classified for subchronic toxicity         Mutagenicity (in vitro)         Fix All Flexi Judgement is based on the relevant lape judgement is based on the relevant lape intervention mass of N.N'-ethane-1,2-divlibis(hexanamide)/12-hydroxy-N-[2-1(1-oxyhexyt)/aminolethyl]octadecanamide/N.N'-ethane-1,2-divlibis(12. hydroxyoctadecanamide)         Watagenicity (in vivo)       Fifect       Value determination       Remark         Mot classified for mutagenic or genotoxic toxicity       Bacteria (S typhimurium)       Literature study       Image: Study in the mixture available Judgement is based on the relevant ingredients         Mot classified for mutagenic or genotoxic toxicity       Bacteria (S typhimurium)       Literature study       Image: Study in the mixture available Judgement is based on the relevant ingredients         Examination       Remark       Bacteria (S typhimurium)       Literature study       Image: Study in the mixture available Judgement is based on the relevant ingredients         Conclusion Mot classified for carcinogenicity       Production date: 2013-02-18 Date of revision: 2019-07-09	Oral	NOAEL				No effect	28 day(s)	Rat	Literature study
Fix All Flexi No (test)data on the mixture available Judgement is based on the relevant ingredients reaction mass of: NIV-ethane-1,2-diylbis/hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)aminolethyl]octadecanamide/N,NI-ethane-1,2-diylbis/12- hydroxycctadecanamide/N         Method       Test substrate       Effect       Value determination       Remark         Iterature study       Ames test       Bacteria (S.typhimurium)       Literature study       Iterature study         Mutagenicity (in vivo)       Fix All Flexi No (test)data on the mixture available Judgement is based on the relevant ingredients       Conclusion Not classified for mutagenic or genotoxic toxicity         Fix All Flexi No (test)data on the mixture available Judgement is based on the relevant ingredients       Conclusion Not classified for mutagenic or genotoxic toxicity         Fix All Flexi No (test)data on the mixture available Judgement is based on the relevant ingredients       Publication date: 2013-02-18 Date of revision: 2019-07-09		onic toxicity							
No (test)data on the mixture available         Judgement is based on the relevant ingredients         reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxycctadecanamide)         Megative       Arnes test       Bacteria (S.lyphimurium)       Literature study         Mutagenicity (in vivo)         Fix All Flexi       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the relevant ingredients       Example         Mot classified for carcinogenicity       Publication date: 2013-02-18       Date of revision: 2019-07-09	Mutagenicity (in vitro)								
Inversion       Method       Test substrate       Effect       Value determination       Remark         Negative       Arnes test       Bacteria (S.typhimurium)       Literature study       Interature study         Mutagenicity (In vivo)       Fix All Flexi       No (test)data on the mixture available       Judgement is based on the relevant ingredients       Conclusion       Not classified for mutagenic or genotoxic toxicity         Fix All Flexi       No (test)data on the mixture available       Judgement is based on the relevant ingredients       Publication date: 2013-02-18       Date of revision: 2019-07-09	No (test)data on the mix Judgement is based on t	the rel <mark>evant i</mark>	ngredients	de)/12-hvdrc	0xy-N-[2-[(1-0)	(vhexyl)amino]ethyl]	octadecanamid	e/N.N'-ethane-1.2-divlb	is(12-
Negative       Ames test       Bacteria (S.typhimurium)       Literature study         Mutagenicity (in vivo) Fix All Flexi No (test)data on the mixture available Judgement is based on the relevant ingredients <u>Conclusion         </u> Not classified for mutagenic or genotoxic toxicity <b>Carcinogenicity</b> Fix All Flexi         No (test)data on the mixture available         Judgement is based on the relevant ingredients <u>Conclusion         </u> No (test)data on the mixture available         Judgement is based on the relevant ingredients <u>Conclusion         </u> No (test)data on the mixture available         Judgement is based on the relevant ingredients <u>Conclusion         </u> Not classified for carcinogenicity         Reason for revision: 1.4         Publication date: 2013-02-18         Date of revision: 2019-07-09	hydroxyoctadecanamide	<u>e)</u>							
Mutagenicity (in vivo)         Fix All Flexi         No (test)data on the mixture available         Judgement is based on the relevant ingredients         Conclusion         Not classified for mutagenic or genotoxic toxicity         Carcinogenicity         Fix All Flexi         No (test)data on the mixture available         Judgement is based on the relevant ingredients         Conclusion         No (test)data on the mixture available         Judgement is based on the relevant ingredients         Conclusion         Not classified for carcinogenicity         Reason for revision: 1.4         Publication date: 2013-02-18         Date of revision: 2019-07-09									Remark
Fix All Flexi       No (test)data on the mixture available         Judgement is based on the relevant ingredients       Conclusion         Not classified for mutagenic or genotoxic toxicity       Carcinogenicity         Fix All Flexi       No (test)data on the mixture available         Judgement is based on the relevant ingredients       Conclusion         No (test)data on the mixture available       Judgement is based on the relevant ingredients         Conclusion       No (test)data on the relevant ingredients         Conclusion       No t classified for carcinogenicity         Reason for revision: 1.4       Publication date: 2013-02-18         Date of revision: 2019-07-09       Date of revision: 2019-07-09	Mutagenicity (in vivo)	Ames	.031	Dact				Enciatore study	I
Fix All Flexi       No (test)data on the mixture available         Judgement is based on the relevant ingredients       Conclusion         Not classified for carcinogenicity       Publication date: 2013-02-18         Reason for revision: 1.4       Date of revision: 2019-07-09	No (test)data on the mix Judgement is based on t <u>Conclusion</u>	the rel <mark>evant i</mark>	ngredients						
No (test)data on the mixture available         Judgement is based on the relevant ingredients         Conclusion         Not classified for carcinogenicity         Reason for revision: 1.4         Publication date: 2013-02-18         Date of revision: 2019-07-09	Carcinogenicity								
Date of revision: 2019-07-09	No (test)data on the mix Judgement is based on t <u>Conclusion</u>	the rel <mark>evant i</mark>							
Revision number: 0304 Product number: 53591 5 / 9	Reason for revision: 1.4								
	Revision number: 0304						Product numbe	er: 53591	5/9

#### Reproductive toxicity

#### Fix All Flexi

No (test)data on the mixture available Judgement is based on the relevant ingredients Conclusion

Not classified for reprotoxic or developmental toxicity

#### Toxicity other effects

Fix All Flexi No (test)data on the mixture available

Chronic effects from short and long-term exposure

Fix All Flexi No effects known.

### SECTION 12: Ecological information

#### 12.1. Toxicity

#### Fix All Flexi

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Toxicity algae and other aquation	ErC50	OECD 201	190 mg/l	72 h	Pseudokirchnerie	Static system	Fresh water	Experimental value
plants					lla subcapitata			of similar product

Judgement is based on the relevant ingredients

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-

	Parameter	Method	Value	Duration	Species		Fresh/salt water	Value determination
Acute toxicity fishes	LC50	OECD 203	> 1000 mg/l	96 h	Oncorhynchus mykiss	Static system	Fresh water	Read-across
Acute toxicity crustacea	EC50	OECD 202	> 1000 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value
Toxicity algae and other aquatic plants	EC50	EPIWIN 3.10	85 mg/l	96 h	Algae			Calculated value
Long-term toxicity aquatic crustacea	NOEC	OECD 211	0.9 mg/l	21 day(s)	1 1 1 1 3 1	Semi-static system	Fresh water	Experimental value

#### **Conclusion**

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

#### 12.2. Persistence and degradability

reaction mass of: N,N'-ethane-1,2-divibis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-divibis(12-

#### hydroxyoctadecanamide)

Bi	odegradation water			
	Method	Value	Duration	Value determination
	OECD 301B: CO2 Evolution Test	20 %	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 (mixtu	ire)		
reaction mass of: N,N'-etha	ne-1,2-diylbis(hexanamid	de)/12-hydroxy-N-[2-[(1-oxyh	exyl)amino]ethyl]octadecanamide	/N,N'-ethane-1,2-diylbis(12-
hydroxyoctadecanamide)				
Log Kow				
Method	Remark	Value	Temperature	Value determination
EU Method A.8		> 6		Experimental value
<u>Conclusion</u> Contains bioaccumulative c	omponent(s)			
12.4. Mobility in soil				
Reason for revision: 1.4			Publication date	e: 2013-02-18
			Date of revision:	: 2019-07-09
Revision number: 0304			Product number	r: 53591 6/9

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12hydroxyoctadecanamide) (log) Koc

# Parameter Method Value Value determination log Koc OECD 121 2.28 - 5.63 Experimental value

**Conclusion** 

Contains component(s) that adsorb(s) into the soil

#### 12.5. Results of PBT and vPvB assessment

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

#### 12.6. Other adverse effects

Fix All Flexi

#### Greenhouse gases

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

Ozone-depleting potential (ODP) Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009)

reaction mass of: N,N'-ethane-1,2-diylbis(hexanamide)/12-hydroxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diylbis(12-hydroxyoctadecanamide)

Groundwater

Groundwater pollutant

#### SECTION 13: Disposal considerations

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

#### 13.1. Waste treatment methods

13.1.1 Provisions relating to waste

#### European Union

Can be considered as non hazardous waste according to Directive 2008/98/EC, as amended by Regulation (EU) No 1357/2014 and Regulation (EU) No 2017/997.

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

08 04 10 (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants other than those mentioned in 08 04 09). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Recycle/reuse. 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

#### European Union

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

15 01 02 (plastic packaging).

### SECTION 14: Transport information

Transport		Not subject	
14.2. UN proper shipping	name		
14.3. Transport hazard cla	ss(es)		
Hazard identification r	number		
Class			
Classification code			
14.4. Packing group			
Packing group			
Labels			
14.5. Environmental haza	rds		
Environmentally haza	dous substance mark	no	
14.6. Special precautions			
Special provisions			
Limited quantities			
	ording to Annex II of Marpol and the IBC C	Code	
Annex II of MARPOL 7		Not applicable, based on available data	
on for revision: 1.4		Publication date: 2013-02-18 Date of revision: 2019-07-09	
on number: 0304		Product number: 53591	7/

	atory information		
	atory information	islation specific for the substance or mixture	
European legislation:	nd environmental regulations/leg	islation specific for the substance or mixture	
VOC content Directive	2010/75/FU		
VOC content		Remark	
0.76 % - 1.2693 %			
12.16 g/l - 20.3088	3 g/l		
ational legislation Bel	aium		
<u>Fix All Flexi</u> No data available			
National legislation The	Netherlands		
Fix All Flexi			
No data available			
National legislation Fran	nce		
Fix All Flexi No data available			
National legislation Ger Fix All Flexi	many		
WGK		ng based on the components in compliance with Verwaltungsvorschrift	
reaction mass of: N	Wassergefährdender Stoffe (	VwVwS) of 27 July 2005 (Anhang 4) oxy-N-[2-[(1-oxyhexyl)amino]ethyl]octadecanamide/N,N'-ethane-1,2-diy	lbic(1)
hydroxyoctadecanar			1015(12-
TA-Luft	5.2.5/I		
National legislation Uni	ited Kingdom		
<u>Fix All Flexi</u> No data available			
NU Uata avaliable			
Other relevant data Fix All Flexi			
No data available			
2. Ohenvierel enfette			
.2. Chemical safety	assessment has been conducted for the mix	ture	
,			
ION 16: Other			
	ments referred to under heading 3: ng lasting harmful effects to aquatic life.		
THE May cause to			
(*)	INTERNAL CLASSIFICATION BY BIG		
ADI AOEL	Acceptable daily intake Acceptable operator exposure level		
CLP (EU-GHS)	Classification, labelling and packaging (G	Slobally Harmonised System in Europe)	
DMEL	Derived Minimal Effect Level		
DNEL EC50	Derived No Effect Level Effect Concentration 50 %		
ErC50	EC50 in terms of reduction of growth ra	te	
LC50	Lethal Concentration 50 %		
ld50 Noael	Lethal Dose 50 % No Observed Adverse Effect Level		
NOEC	No Observed Effect Concentration		
OECD	Organisation for Economic Co-operation	n and Development	
PBT PNEC	Persistent, Bioaccumulative & Toxic Predicted No Effect Concentration		
STP	Sludge Treatment Process		
vPvB	very Persistent & very Bioaccumulative		
The information in th	his seferiu data shast is based an data and s	employ manifold to DIC. The check use unit to be the back of sum shilling	
		amples provided to BIG. The sheet was written to the best of our ability a stitutes a guideline for the safe handling, use, consumption, storage, tran	
of the substances/pr	reparations/mixtures mentioned under poi	nt 1. New safety data sheets are written from time to time. Only the mos	t recent versions
may be used. Unless	s indicated otherwise word for word on the	safety data sheet, the information does not apply to substances/prepara afety data sheet offers no quality specification for the substances/prepara	tions/mixtures in
		heet does not release the user from the obligation to take all measures di	
sense, regulations ar	nd recommendations or which are necessa	ry and/or useful based on the real applicable circumstances. BIG does not	t guarantee the
accuracy or exhausti elaborated for use w		nnot be held liable for any changes by third parties. This safety data sheel	has been
n for revision: 1.4		Publication date: 2013-02-18	
		Date of revision: 2019-07-09	
n number: 0304		Product number: 53591	8/9
JI HUHINCI, UJU4		FLOURCE HUTTINGE . 33371	0/9

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