# **SAFETY DATA SHEET**

Based upon Regulation (EC) No 1907/2006, as amended by Regulation (EU) No 2020/878



# **2K-MIX FAST curative**

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

# 1.1. Product identifier

Product name Registration number REACH Product type REACH : 2K-MIX FAST curative: Not applicable (mixture)

# : Mixture

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

**<u>1.2.1 Relevant identified uses</u>** Adhesive: component

Hardener

# 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

#### Manufacturer of the product

Novatech International N.V. Industrielaan 5B B-2250 Olen ☎ +32 14 85 97 37 ➡ +32 14 85 97 38 info@novatech.be

### 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

Aquatic Chronic	Category	Hazard statements	
	category 3	H412: Harmful to aquatic life with long lasting effects.	
Label elements			
Hazard pictogram	s		
No pictogran	n is used		
Signal word	No signal	word	
H-statements			
H412	Harmful	to aquatic life with long lasting effects.	
P-statements			
P273	Avoid rel	ease to the environment.	
P501	Dispose o	of contents/container in accordance with local/regional/national/international regulation.	
Supplemental info	ormation		
EUH208	Contains:	piperazine; dibutylbis(dodecylthio)stannane. May produce an allergic reaction.	
Other hazards			
No other hazards l	known		

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG) Technische Schoolstraat 43 A, B-2440 Geel http://www.big.be © BIG vzw Reason for revision: 3;8;9;11;12 Revision number: 0300 Publication date: 2006-02-02 Date of revision: 2022-05-17 878-16433-033-en

# SECTION 3: Composition/information on ingredients

# 3.1. Substances

Not applicable

### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	Conc. (C)	Classification according to CLP	Note	Remark	M-factors and ATE
Talc (Mg3H2(SiO3)4)	14807-96-6 238-877-9	15% ≤C<25%		(2)	Constituent	
zeolites	1318-02-1 215-283-8	2.5%≤C<5%		(2)	Constituent	
piperazine 01-2119480384-35	110-85-0 203-808-3		Flam. Sol. 1; H228 Repr. 2; H361fd Resp. Sens. 1; H334 Skin Sens. 1; H317 Skin Corr. 1B; H314 Eye Dam. 1; H318	(1)(2)(6)(10)	Constituent	
dibutylbis(dodecylthio)stannane 01-2119841260-50	1185-81-5 214-688-7		Muta. 2; H341 Repr. 1B; H360FD Skin Sens. 1; H317 STOT RE 1; H372 Acute Tox. 4; H312 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	(1)(2)(10)	Constituent	M: 1 (Acute, BIG) M: 1 (Chronic, ECHA (registration dossier))

(1) For H- and EUH-statements in full: see section 16

(2) Substance with a Community workplace exposure limit

(6) Enumerated in Annex VI of Regulation (EC) No. 1272/2008 but the classification has been adapted after evaluation of available test data

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

# SECTION 4: First aid measures

# 4.1. Description of first aid measures

#### General:

Observe (own) safety. If possible, approach victim and check vital functions. In case of injury and/or intoxication, call the European emergency number 112. Treat symptoms starting with most life-threatening injuries and disorders. Keep victim under observation, possibility of delayed symptoms.

#### After inhalation:

Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.

### After skin contact:

If possible, wipe up/dry remove chemical. Then rinse/shower immediately with (lukewarm) water. If irritation persists, consult a doctor/medical service.

#### After eye contact:

Rinse immediately with (lukewarm) water. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, consult a doctor/medical service.

# After ingestion:

Rinse mouth with water. If you feel unwell, consult a doctor/medical service. Do not wait for symptoms to occur to consult Poison Center.

### 4.2. Most important symptoms and effects, both acute and delayed

4.2.1 Acute symptoms

After inhalation:
No effects known.

After skin contact:

No effects known.

After eye contact:

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

Reason for revision: 3;8;9;11;12

### 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, sulphur oxides.

### 5.3. Advice for firefighters

## 5.3.1 Instructions:

If exposed to fire cool the closed containers by spraying with water. Take account of environmentally hazardous firefighting water. Use water moderately and if possible collect or contain it.

#### 5.3.2 Special protective equipment for fire-fighters:

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Heat/fire exposure: self-contained breathing apparatus (EN 136 + EN 137).

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

#### No naked flames.

### 6.1.1 Protective equipment for non-emergency personnel

See section 8.2

# 6.1.2 Protective equipment for emergency responders

Gloves (EN 374). Protective clothing (EN 14605 or EN 13034). Suitable protective clothing

#### See section 8.2

#### 6.2. Environmental precautions

Contain released product. Dam up the liquid spill. Prevent soil and water pollution. Prevent spreading in sewers.

#### 6.3. Methods and material for containment and cleaning up

Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

# 6.4. Reference to other sections

See section 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 strict hygiene. Keep container tightly closed. Do not discharge the waste into the drain.

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

#### 7.2.1 Safe storage requirements:

Store in a cool area. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements.

#### 7.2.2 Keep away from:

Heat sources, oxidizing agents, (strong) acids, (strong) bases, isocyanates.

7.2.3 Suitable packaging material: No data available

### 7.2.4 Non suitable packaging material:

No data available

### 7.3. Specific end use(s)

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

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

#### 8.1.1 Occupational exposure

a) Occupational exposure limit values

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

EU

Piperazine Time-weighted average exposure limit 8 h (Indicative occupational	0.1 mg/m <sup>3</sup>
exposure limit value)	
Short time value (Indicative occupational exposure limit value)	0.3 mg/m <sup>3</sup>

#### Belgium

Reason for revision: 3;8;9;11;12

Etain (composés organiques de) (en Sn)	Time-weighted average exposure limit 8 h	0.1 mg/m <sup>3</sup>
	Short time value	0.2 mg/m <sup>3</sup>
Particules non classifiées autrement (fraction alvéolaire)	Time-weighted average exposure limit 8 h	3 mg/m³
Particules non classifiées autrement (fraction inhalable)	Time-weighted average exposure limit 8 h	10 mg/m <sup>3</sup>
Pipérazine et sels (vapeur et aérosol) (en pipérazine)	Time-weighted average exposure limit 8 h	0.1 mg/m <sup>3</sup>
	Short time value	0.3 mg/m <sup>3</sup>
Talc (sans fibre d'amiante)	Time-weighted average exposure limit 8 h	2 mg/m <sup>3</sup>
The Netherlands		
Piperazine	Time-weighted average exposure limit 8 h (Public occupational exposure	0.028 ppm
	limit value) Time-weighted average exposure limit 8 h (Public occupational exposure	0.1 mg/m <sup>3</sup>
	limit value)	0.084 mmm
	Short time value (Public occupational exposure limit value)	0.084 ppm
Talk (respirabel)	Short time value (Public occupational exposure limit value) Time-weighted average exposure limit 8 h (Public occupational exposure	0.3 mg/m <sup>3</sup> 0.016 ppm
	limit value) Time-weighted average exposure limit 8 h (Public occupational exposure	0.25 mg/m
	limit value)	
France	1	<del>.                                    </del>
Etain (composés organiques d'), en Sn	Time-weighted average exposure limit 8 h (VL: Valeur non réglementaire indicative)	0.1 mg/m <sup>3</sup>
	Short time value (VL: Valeur non réglementaire indicative)	0.2 mg/m <sup>3</sup>
Pipérazine (poussières et vapeurs)	Time-weighted average exposure limit 8 h (VRI: Valeur réglementaire indicative)	0.1 mg/m <sup>3</sup>
	Short time value (VRI: Valeur réglementaire indicative)	0.3 mg/m <sup>3</sup>
Poussières réputées sans effet spécifique, fraction alvéolaire	· · · · · · · · · · · · · · · · · · ·	5 mg/m <sup>3</sup>
Poussières réputées sans effet spécifique	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire	10 mg/m <sup>3</sup>
-	contraignante)	I
Germany		
Allgemeiner Staubgrenzwert: Alveolengängige Fraktion	Time-weighted average exposure limit 8 h (TRGS 900)	1.25 mg/m
Piperazin		0.1 mg/m <sup>3</sup>
Zinnverbindungen, organische - n- Butylzinnverbindungen: Di-n-butylzinnverbindungen	Time-weighted average exposure limit 8 h (TRGS 900)	0.0018 ppr
	Time-weighted average exposure limit 8 h (TRGS 900)	0.009 mg/ı
Austria	1	<u> </u>
Piperazin und seine Salze	Tagesmittelwert (MAK)	0.1 mg/m <sup>3</sup>
		0.3 mg/m <sup>3</sup>
Talk (asbestfaserfrei)	Tagesmittelwert (MAK)	$2 \text{ mg/m}^3$
		2
UK Inhalable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit	10 mg/m <sup>3</sup>
	(EH40/2005))	<u>.</u>
Piperazine	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	0.1 mg/m <sup>3</sup>
	Short time value (Workplace exposure limit (EH40/2005))	0.3 mg/m <sup>3</sup>
Respirable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	4 mg/m <sup>3</sup>
Talc, respirable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	1 mg/m³
Tin compounds, organic, except Cyhexatin (ISO), (as Sn)		0.1 mg/m³
		0.2 mg/m <sup>3</sup>
USA (TLV-ACGIH)		
Particulates (insoluble or poorly soluble) not otherwise specified	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	3 mg/m³ (F
Piperazine and salts, as piperazine	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.03 ppm (
Talc: Containing asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.03 ppm ( 0.1 fibers/o
Talc: Containing no asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m <sup>3</sup> (F
Tin, organic compounds, as Sn	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	$2 \text{ mg/m}^{-}$ (R 0.1 mg/m <sup>3</sup>
	THILE-WEIGHTED AVERAGE EXPOSULE IIIIIL & ILLEV - ADODTED VALUE)	Intrus/m
This organic compounds, as sh		0.2 mg/m <sup>3</sup>

Reason for revision: 3;8;9;11;12

(R):	Respira	ble	fraction
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(IFV): Inhalable fraction and vapor

(F): Respirable fibers: length > 5 µm; aspect ratio ≥ 3:1, as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination

R,E: Respirable fraction. The value is for particulate matter containing no asbestos and < 1% crystalline silica

b) National biological limit values

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

8.1.2 Sampling methods

Product name	Test	Number
Dust, Respirable Nuisance (Particulates)	NIOSH	0600
Dust, Respirable	ASTM	D 4532-92
Dust, Total Nuisance (Particulates)	NIOSH	0500
total aerosol mass	NIOSH	0501

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 Threshold values

DNEL/DMEL - Workers Talc (Mg3H2(SiO3)4)

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	2.16 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	2.16 mg/m <sup>3</sup>	
	Long-term local effects inhalation	3.6 mg/m <sup>3</sup>	
	Acute local effects inhalation	3.6 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	43.2 mg/kg bw/day	
	Long-term local effects dermal	4.54 mg/cm <sup>2</sup>	
<u>eolites</u>		•	
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	3 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	2.5 mg/m <sup>3</sup>	
i <u>perazine</u>			
Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	0.1 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	0.3 mg/m <sup>3</sup>	
	Long-term local effects inhalation	0.1 mg/m <sup>3</sup>	
1	Acute local effects inhalation	0.3 mg/m <sup>3</sup>	

# DNEL/DMEL - General population

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term systemic effects inhalation	1.08 mg/m <sup>3</sup>	
	Acute systemic effects inhalation	1.08 mg/m <sup>3</sup>	
	Long-term local effects inhalation	1.8 mg/m <sup>3</sup>	
	Acute local effects inhalation	1.8 mg/m <sup>3</sup>	
	Long-term systemic effects dermal	21.6 mg/kg bw/day	
	Long-term local effects dermal	2.27 mg/kg bw/day	
	Long-term systemic effects oral	160 mg/kg bw/day	
	Acute systemic effects oral	160 mg/kg bw/day	
<u>olites</u>		· - ·	
Effect level (DNEL/DMEL)	Type	Value	Remark

#### DNEL Long-term local effects inhalation 0.003 mg/m<sup>3</sup> 1.25 mg/kg bw/day Long-term systemic effects dermal Long-term systemic effects oral 1.25 mg/kg bw/day piperazine

#### Effect level (DNEL/DMEL) Value Remark Туре DNEL Long-term systemic effects oral 1 mg/kg bw/day PNEC Talc (Mg3H2(SiO3)4)

Compartments	Value	Remark		
Fresh water	597.97 mg/l			
Fresh water (intermittent releases)	597.97 mg/l			
Marine water	141.26 mg/l			
Marine water (intermittent releases)	141.26 mg/l			
Fresh water sediment	31.33 mg/kg sediment dw			
Marine water sediment	3.13 mg/kg sediment dw			
Air	10 mg/m <sup>3</sup>			
eolites				
Compartments	Value	Remark		
Fresh water	3.2 mg/l			
Marine water	0.32 mg/l			
STP	95 mg/l			
Soil	600 mg/kg soil dw			

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Compartments	Value	Remark	
Fresh water	0.1 mg/l		
Marine water	0.01 mg/l		
Fresh water (intermittent releases)	1 mg/l		
Marine water (intermittent releases)	0.1 mg/l		
STP	54 mg/l		
Fresh water sediment	1.8 mg/kg sediment dw		
Marine water sediment	0.18 mg/kg sediment dw		
Soil	1.45 mg/kg soil dw		
Oral	4.6 mg/kg food		

8.1.5 Control banding

If applicable and available it will be listed below.

### 8.2. Exposure controls

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

### 8.2.1 Appropriate engineering controls

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

#### 8.2.2 Individual protection measures, such as personal protective equipment Observe strict hygiene. Do not eat, drink or smoke during work.

a) Respiratory protection:

Full face mask with filter type A at conc. in air > exposure limit.

#### b) Hand protection:

Protective gloves against chemicals (EN 374), Change gloves frequently.

Materials	Measured breakthrough time	Thickness	Protection index	Remark
butyl rubber	> 480 minutes	0.5 mm	Class 6	

c) Eye protection:

Face shield (EN 166).

d) Skin protection:

Protective clothing (EN 14605 or EN 13034).

8.2.3 Environmental exposure controls:

See sections 6.2, 6.3 and 13

# SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

Physical form	Liquid
Odour	No data available on odour
Odour threshold	No data available in the literature
Colour	No data available on colour
Particle size	Not applicable (liquid)
Explosion limits	No data available in the literature
Flammability	Not classified as flammable
Log Kow	Not applicable (mixture)
Dynamic viscosity	No data available in the literature
Kinematic viscosity	No data available in the literature
Melting point	No data available in the literature
oiling point No data available in the literature	
Relative vapour density > 1	
Vapour pressure	3 hPa ; 25 °C ; Calculated
Solubility	No data available in the literature
Relative density	1.25 ; 20 °C
Absolute density	1246 kg/m³ ; 20 °C
Decomposition temperature	No data available in the literature
Auto-ignition temperature	No data available in the literature
Flash point	212 °C
рН	No data available in the literature

# 9.2. Other information

No data available

# SECTION 10: Stability and reactivity

# 10.1. Reactivity

Heating increases the fire hazard.

# 10.2. Chemical stability

Stable under normal conditions.

# **10.3. Possibility of hazardous reactions** No data available.

# **10.4. Conditions to avoid** Precautionary measures

Keep away from naked flames/heat.

# 10.5. Incompatible materials

Oxidizing agents, (strong) acids, (strong) bases, isocyanates.

# 10.6. Hazardous decomposition products

Upon combustion: formation of CO, CO2 and small quantities of nitrous vapours, sulphur oxides.

# SECTION 11: Toxicological information

# 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

# 11.1.1 Test results

# Acute toxicity

# 2K-MIX FAST curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients

# Talc (Mg3H2(SiO3)4)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 423	> 5000 mg/kg bw		Rat (male)	Experimental value	
Dermal	LD50	OECD 402	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Inhalation (aerosol)	LC50	OECD 403	> 2.1 mg/l		Rat (male / female)		(maximum achievable concentration)

# zeolites

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 401	> 5110 mg/kg bw		Rat (male /	Experimental value	
					female)		
Dermal	LD50	Equivalent to OECD	> 2000 mg/kg bw		Rabbit (female)	Experimental value	
		402					
Inhalation (dust)	LC50		> 3.35 mg/l air	4 h	Rat (male /	Experimental value	
			<b>.</b>		female)		

# piperazine

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	Equivalent to OECD	2600 mg/kg bw		Rat (male /	Experimental value	
		401			female)		
Dermal	LD50	Equivalent to OECD	8300 mg/kg bw	24 h	Rabbit (male /	Experimental value	
		402			female)		
Inhalation (vapours)	LC0	BASF test	2 mg/l air	4 h	Rat (male /	Experimental value	
			-		female)		

# dibutylbis(dodecylthio)stannane

Route of exposure	Parameter	Method	Value	Exposure time	Species	Value	Remark
						determination	
Oral	LD50	OECD 423	> 2000 mg/kg bw		Rat (male / female)	Experimental value	
Dermal	LD50	OECD 402	1000 mg/kg bw - 2000 mg/kg bw	24 h	Rabbit (female)	Experimental value	

#### **Conclusion**

Not classified for acute toxicity

# Corrosion/irritation

2K-MIX FAST curative

No (test)data on the mixture available

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	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Еуе	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	Experimental value	Single treat without rin
Not applicable (in vitro test)	Not irritating	EU Method B.46			Reconstructed human epidermi	Experimental s value	
eolites							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	Experimental value	Single treat without rin
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental value	
perazine							
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye						Data waiving	
Not applicable (in vitro test)	Corrosive	OECD 431	3 minutes		Reconstructed human epidermi	Experimental s value	
butylbis(dodecylthi	<u>o)stannane</u>						
Route of exposure	Result	Method	Exposure time	Time point	Species	Value determination	Remark
Eye	Not irritating	OECD 405		1; 24; 48; 72 hrs; 7; 14 days	Rabbit	Experimental value	
Not applicable (in vitro test)	Not corrosive	OECD 435			Reconstructed human corneal epidermis	Experimental value	
Skin	Irritating; category 2					Literature study	
ot classified as irrita ot classified as irrita ot classified as irrita <b>atory or skin sensitis</b> IX FAST curative Io (test)data on the	ting to the respira						
ot classified as irrita ot classified as irrita <b>itory or skin sensitis</b> <u>IX FAST curative</u> Io (test)data on the Idgement is based o <u>alc (Mg3H2(SiO3)4)</u>	ting to the eyes ting to the respira sation mixture available in the relevant ing	gredients					
ot classified as irrita ot classified as irrita <b>atory or skin sensitis</b> <u>IX FAST curative</u> lo (test)data on the udgement is based o	ting to the eyes ting to the respira sation mixture available in the relevant ing		Exposure time	Observation time point	Species	Value determination	Remark
ot classified as irrita ot classified as irrita <b>itory or skin sensitis</b> <u>IX FAST curative</u> Io (test)data on the Idgement is based o <u>alc (Mg3H2(SiO3)4)</u>	ting to the eyes ting to the respira sation mixture available in the relevant ing	gredients	Exposure time		<b>Species</b> Guinea pig (female)	Value determination Experimental value	Remark
ot classified as irrita ot classified as irrita <b>atory or skin sensitis</b> <u>IX FAST curative</u> to (test)data on the udgement is based o <u>alc (Mg3H2(SiO3)4)</u> <b>Route of exposure</b> Skin Inhalation	iting to the eyes iting to the respira sation mixture available on the relevant ing Result	gredients	Exposure time		Guinea pig		Remark
ot classified as irrita ot classified as irrita atory or skin sensitis IX FAST curative to (test)data on the udgement is based o alc (Mg3H2(SiO3)4) Route of exposure Skin	iting to the eyes ting to the respira sation mixture available in the relevant ing Result Not sensitizing Not sensitizing	gredients	Exposure time	point Observation time	Guinea pig (female)	Experimental value	
ot classified as irrita ot classified as irrita atory or skin sensitis IX FAST curative IO (test)data on the Idgement is based o alc (Mg3H2(SiO3)4) Route of exposure Skin Inhalation colites Route of exposure	ting to the eyes ting to the respira sation mixture available in the relevant ing Result Not sensitizing Not sensitizing Result	gredients Method OECD 406 Method		point	Guinea pig (female) Rat (male) Species	Experimental value Experimental value Value determination	
ot classified as irrita ot classified as irrita atory or skin sensitis IX FAST curative to (test)data on the idgement is based o alc (Mg3H2(SiO3)4) Route of exposure Skin Inhalation colites Route of exposure Skin	iting to the eyes ting to the respira sation mixture available in the relevant ing Result Not sensitizing Not sensitizing	gredients Method OECD 406		point Observation time	Guinea pig (female) Rat (male)	Experimental value Experimental value	
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Revision number: 0300

BIG number: 43135

Date of revision: 2022-05-17

F	Route of exposure	Paramete	Method	Value	Organ	Effe	ect	Exposure time		Species	Value determinati
C	Oral (diet)	NOAEL	Equivalent to OECD 452	100 mg/kg bw/day		No	effect	101 day(s)		Rat (male / female)	Experimenta value
ī	Dermal										Data waivin
Ī	Inhalation (aerosol)	NOAEC	Equivalent to	10.8 mg/m <sup>3</sup> a	r	No	effect	52 weeks (7h	/day,	Rat (male /	Experimenta
	. ,		OECD 452					5 days / week	()	female)	value
eoli	ites	1									
F	Route of exposure	Parameter	Method	Value	Organ	Effe	ect	Exposure time		Species	Value determinati
C	Oral (diet)	NOAEL	Subchronic toxicity test	5000 ppm		No	effect	90 day(s)		Rat (male)	Experimenta
(	Oral (diet)	NOAEL	Subchronic toxicity test	10000 ppm		No	effect	90 day(s)		Rat (female)	Experimenta value
ī	Dermal										Data waiving
1	Inhalation (dust)	NOAEL		> 20 mg/m <sup>3</sup> a	r	No	effect	4 weeks (3 tir	nes /	Rat (male /	
L								week)		female)	
· -	razine Route of exposure	Paramete	Mathad	Value	Organ	Effe	t	Exposure time		Species	Value
F	toute of exposure	Parameter	wiethou	value	Organ	Elle	:01	exposure time		species	determinati
(	Oral (diet)	NOAEL	OECD 408	627 mg/kg		No	effect	90 day(s)		Rat (male /	Experimenta
	tulbic(dodcoultbic)o			bw/day						female)	value
	tylbis(dodecylthio)s		Mathad	Malua	0	Effe	at			Creation	Value
r	Route of exposure	Paramete	wethod	Value	Organ	Effe	ect	Exposure time		Species	determinati
Ē	Unknown			STOT RE cat.1							Literature st
nclu	<u>usion</u>										
Judg	test)data on the mix gement is based on t										
Judg Talc		he relevan		Test s	bstrate		Effect		Value	determination	Remark
ludg alc	gement is based on t (Mg3H2(SiO3)4)	he relevan	t ingredients		<b>bstrate</b> ia (S.typhimur	ium)	Effect		-	<b>determination</b> mental value	Remark
ludg <u>alc</u> F	gement is based on t ( <u>Mg3H2(SiO3)4)</u> Result Negative with metab activation, negative	he relevan	t ingredients hod			ium)	Effect		-		Remark
ludg alc F	gement is based on t ( <u>Mg3H2(SiO3)4)</u> Result Negative with metab activation, negative without metabolic	he relevan	t ingredients hod			ium)	Effect		-		Remark
ludg <u>alc</u> f	gement is based on t ( <u>Mg3H2(SiO3)4)</u> Result Negative with metab activation, negative without metabolic activation	he relevan	t ingredients hod			ium)	Effect		-		Remark
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Reason for revision: 3;8;9;11;12

Judgement is based on the relevant ingredients Talc (Mg3H2(SiO3)4)

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Equivalent to OECD 478	5 days (1x / day)	Rat (male)		Experimental value
blites					
Result	Method	Exposure time	Test substrate	Organ	Value determinatio
Negative (Oral (stomach tube))	Equivalent to OECD 475		Rat (male)		Experimental value
erazine					
Result	Method	Exposure time	Test substrate	Organ	Value determinatio
Negative (Oral (stomach tube))	Equivalent to OECD 474		Mouse (male / female)		Experimental value
utylbis(dodecylthio)stannane	•			•	
Result	Method	Exposure time	Test substrate	Organ	Value determinatio
Positive					Literature study

Not classified for mutagenic or genotoxic toxicity

### Carcinogenicity

2K-MIX FAST curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg3H2(SiO3)4)

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Inhalation	NOAEC	OECD 453	18 mg/m <sup>°</sup> air	113 weeks (6h / day,	Rat (male /	No carcinogenic		Experimental value
(aerosol)				5 days / week) - 122	female)	effect		
				weeks (6h / day, 5				
				days / week)				
Oral (diet)	NOAEL	OECD 453	100 mg/kg	101 day(s)	Rat (male /	No carcinogenic		Experimental value
1			bw/day		female)	effect		

zeolites

Route of exposure	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Oral (diet)		Carcinogenic toxicity study	≥ 60 mg/kg bw/day	104 week(s)	· · ·	No carcinogenic effect		Experimental value

Conclusion

Not classified for carcinogenicity

# **Reproductive toxicity**

2K-MIX FAST curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients Talc (Mg3H2(SiO3)4)

					-			
	Parameter	Method	Value	Exposure time	Species	Effect	- 0.	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Developmenta l toxicity study	0, 0	10 days (1x / day)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Developmenta I toxicity study		10 days (1x / day)	Rat	No effect		Experimental value
Effects on fertility (Oral (stomach tube))	NOAEL	Equivalent to OECD 416	> 900 mg/kg bw/day	13 days (1x / day)	Rabbit (female)	No effect		Experimental value

<u>zeolites</u>

	Parameter	Method	Value	Exposure time	Species	Effect	- 0.	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 1600 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	Equivalent to OECD 414	> 1600 mg/kg bw/day	10 days (gestation, daily)	Rat	No effect		Experimental value
Effects on fertility (Oral (diet))	NOAEL		≥ 2 %		Rat (male)	No effect	Testes	Experimental value

Reason for revision: 3;8;9;11;12

iperazine						_		
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity (Oral (stomach tube))	NOAEL	OECD 414	420 mg/kg bw/day	10 day(s)	Rat	No effect	Foetus	Experimental value
Maternal toxicity (Oral (stomach tube))	NOAEL	OECD 414	420 mg/kg bw/day	10 day(s)	Rat	No effect		Experimental value
Effects on fertility (Oral (diet))	NOAEL (P)	OECD 416	222 mg/kg bw/day		Rat (female)	No effect		Experimental value
	NOAEL (P)	OECD 416	204 mg/kg bw/day		Rat (male)	No effect		Experimental value
butylbis(dodecylthio)stann	ane					•		
	Parameter	Method	Value	Exposure time	Species	Effect	Organ	Value determination
Developmental toxicity			category 1B					Literature study
Effects on fertility			category 1B					Literature study

#### **Conclusion**

Not classified for reprotoxic or developmental toxicity

### Toxicity other effects

2K-MIX FAST curative

No (test)data on the mixture available

Chronic effects from short and long-term exposure

# 2K-MIX FAST curative

Skin rash/inflammation. Respiratory difficulties.

# 11.2. Information on other hazards

No evidence of endocrine disrupting properties

# **SECTION 12: Ecological information**

# 12.1. Toxicity

2K-MIX FAST curative

No (test)data on the mixture available

Classification is based on the relevant ingredients

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	ECOSAR v1.00	89581 mg/l	96 h	Pisces		Fresh water	QSAR
Acute toxicity crustacea	LC50	ECOSAR v1.00	36812 mg/l	48 h	Daphnia sp.		Fresh water	QSAR
Toxicity algae and other aquatic plants	EC50	ECOSAR v1.00	7203 mg/l	96 h	Algae		Fresh water	QSAR
	NOEC	ECOSAR v1.00	918 mg/l	30 day(s)	Algae		Fresh water	QSAR
Long-term toxicity fish	NOEC	ECOSAR v1.00	5980 mg/l	30 day(s)	Pisces		Fresh water	QSAR
Long-term toxicity aquatic crustacea	NOEC	ECOSAR v1.00	1460 mg/l	30 day(s)	Daphnia sp.		Fresh water	QSAR

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinati
Acute toxicity fishes	NOEC	EPA 660/3 - 75/009	> 680 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental valu Nominal concentration
Acute toxicity crustacea	EC50	OECD 202	2808 mg/l	24 h	Daphnia magna	Static system	Fresh water	Read-across; Nominal concentration
Toxicity algae and other aquatic plants	ErC50	OECD 201	18 mg/l - 34 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Nominal concentration
	NOEC	OECD 201	10 mg/l	96 h	Desmodesmus subspicatus	Static system	Fresh water	Read-across; Nominal concentration
Long-term toxicity fish	NOEC	US EPA	> 86.7 mg/l	30 day(s)	Pimephales promelas	Flow- through system	Fresh water	Experimental valu
Long-term toxicity aquatic crustacea	NOEC	OECD 211	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental valu Nominal concentration
perazine								
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinat
Acute toxicity fishes	LC50	EU Method C.1	> 1800 mg/l	96 h	Poecilia reticulata	Semi-static system	Fresh water	Experimental valı Lethal
Acute toxicity crustacea	EC50	EU Method C.2	21 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value Locomotor effect
Toxicity algae and other aquatic plants	NOEC	OECD 201	> 1000 mg/l	72 h	Pseudokirchneri ella subcapitata	Static system	Fresh water	Experimental valu Growth rate
Long-term toxicity fish								Data waiving
Long-term toxicity aquatic crustacea	NOEC	OECD 211	50 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value Reproduction
Toxicity aquatic micro- organisms	EC0	OECD 209	1000 mg/l	< 1 h	Activated sludge			Experimental valu
butylbis(dodecylthio)stannane							1	
	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determinat
Acute toxicity crustacea	EC50	OECD 202	0.11 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental valu GLP
Toxicity algae and other	EC50	OECD 201	≥ 1.6 mg/l	72 h	Desmodesmus subspicatus		Fresh water	Read-across; Growth rate
aquatic plants								Data waiving

<u>piperazine</u>

Biodegradation water			
Method	Value	Duration	Value determination
OECD 301F	65 %; Oxygen consumption	28 day(s)	Experimental value
Phototransformation air (DT50 air)			
Method	Value	Conc. OH-radicals	Value determination
AOPWIN	2.282 h	5E5 /cm <sup>3</sup>	QSAR
libutylbis(dodecylthio)stannane		•	

#### dibutylbis(dodecylthio)stannane Biodegradation water

в	lodegradation water			
	Method	Value	Duration	Value determination
	OECD 301F	0 %; GLP	28 day(s)	Read-across

# **Conclusion**

Water

Contains non readily biodegradable component(s)

# 12.3. Bioaccumulative potential

2K-MIX FAST curative

Reason for revision: 3;8;9;11;12

Not applicable (mixture)         Image: Content of the content o	alue determination
BCF of her aquatic organisms           BCF         Method         Value         Species           CC         0.574 /v3.0.         3.162 //rg	
Parameter         Method         Value         Duration         Species           BCF         BCFBAr V3.01         3.162 1/kg         Image: Comparison of the species of the speci	
ECF     IBCFBAF V3.01     3.162 l/kg       Ing Kow     Temperature       Method     Remark     Value     Temperature       COV/WIN     9.4     25 °C       BCF Arber aquatic organisms     Barameter     Method     Species       BCF     Method     Value     Duration     Species       BCF     Method     Remark     Value     Temperature       Method     Remark     Value     Temperature       Method     Remark     Value     Temperature       BCF Arbes     Bernerk     Value     Temperature       BCF Fahres     Method     Remark     Value     Temperature       BCF Arbes     Bernerk     Value     Temperature       BCF Arbos     Species     Species       BCF Arbos     Value     Temperature       BCF Arbos     Species     Species       BCF Arbos     Species     Species       BCF Arbos     Species     Species       BCF Arbos     Species	
Log Kow       Temperature         COUVUN       9-4       25 °C         BC other squatic organisms       Parameter       Method       Value       Duration       Species         BCF       Method       Value       Duration       Species       Species         BCF       Method       Remark       Value       Temperature         Method       Remark       Value       Temperature         Method       Remark       Value       Temperature         BCF       As applicable (inorganic)       istration       Species         BCF       Host applicable (inorganic)       istration       Species         BCF       As applicable (inorganic)       istration       Species         BCF       As applicable (inorganic)       istration       Species         BCF       As applicable (inorganic)       istration       Species         BCF       Branneter       Method       Remark       Value       Temperature         Up Kow       Method       Remark       Value       Temperature       Species         Bethod       Remark       Value       Temperature       Species       Species       Species         Log Kow       Method       Remark	Value determination
Method         Remark         Value         Temperature           EXXVVIN         9.4         25 °C         Second S	QSAR
KOWWIN       -9.4       25 °C         BCF       Oursain       Species         BCF       0.59 - 0.35; Fresh       28 dav(s)         Log Kow       Method       Remark       Value         Method       Remark       Value       Temperature         BCF       Not applicable (inorganic)       inorganics       inorganics         BCF fishes       Parameter       Method       Remark       Value       Temperature         BCF fishes       Parameter       Method       Remark       Value       Cyprinus carpio         Log Kow       Image: State	
BCF other aquatic organisms Method Remark Value Duration Species BCF other aquatic organisms BCF fishes BCF other aquatic organisms BCF fishes BCF other aquatic other age of the species of the speci	Value determination
BCF other aquatic organisms         Species         Species         Species         Colspan="2">Colspan="2">Species         Colspan="2">Colspan="2" <colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2">Colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="< td=""><td>QSAR</td></colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="2"<colspan="<></colspan="2"></colspan="2"></colspan="2">	QSAR
Parameter         Method         Value         Duration         Species           BCF         0.53 - 0.95; Fresh         28 day(s)         Image: Construct of the second	
BCF     0.59 - 0.95; Fresh     28 day(s)       Wethod     Remark     Value     Temperature       Iog Kow     Not applicable (inorganic)     Image: Constraint of the state of the st	Value determination
Weight         Weight           Log Kow         Method         Remark         Value         Temperature           BCF fishes         Parameter         Method         Value         Duration         Species           BCF fishes         Parameter         Method         Remark         Value         Temperature           DECD 107         -1.2.4         25 °C         Duration         Species           DECD 107         -1.2.4         25 °C         Duration         Species           EV Method         Remark         Value         Temperature         EV           EU Method A.         Remark         Value         Temperature         EV           Edition         Solia         3.11         22 °C         Columbiance           At Mobility in soil at (Mash2(SIO34)         Percent distribution         Fraction air         Fraction biota         Fraction soil         Fraction water         Value deter           Method         Fraction air <t< td=""><td>Experimental value</td></t<>	Experimental value
Method         Remark         Value         Temperature           Derizatine         Reprint the solution of the solution	
Interaction         Not applicable (inorganic)           Descaling         BCF fishes           Parameter         Method         Value         Duration         Species           BCF         < 3.9; Chronic	
Beraining       Interference       Interference       Interference       Species         BCF       Interference       Interference       Cyprinus carpio         Log Kow       Interference       Interference       Cyprinus carpio         Log Kow       Interference       Interference       Cyprinus carpio         Log Kow       Interference       Interference       Interference         Method       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deterence         Interference       Method       Value       Interference       Interference       Interference         Method       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deterence         Interference       Method       Value       Interference       Value       Interference       Value	Value determination
BCF fishes           Parameter         Method         Value         Duration         Species           BCF         < 3.9; Chronic	
Parameter         Method         Value         Duration         Species           BCF         < 3.9; Chronic	
BCF       < 3.9; Chronic       Cyprinus carpio         Log Kow       Method       Remark       Value       Temperature         DECD 107       -1.24       25 °C       Data Visiologicanane       Log Kow         Method       Remark       Value       Temperature         EU Method A.8       3.11       22 °C         Custom       Remark       Value       Temperature         EU Method A.8       3.11       22 °C         custom       oes not contain bioaccumulative component(s)       4.         A. Mobility in soil       acc MgaH2(SIO3A)       Percent distribution         Method       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         Iog Koc       Parameter       Method       Value       Value       Parameter       Value       Value       Parameter       Value deter         Iog Koc       Parameter       Method       Value       Iog Koc       Parameter       Value       Iog Koc       Parameter       Value       Iog Koc       Parameter       Iog Koc       Parameter       Method       Value       Iog Koc <t< td=""><td></td></t<>	
Log Kow       Temperature         Method       Remark       Value       Temperature         DCECD 107       -1.24       25 °C         butylbis/dodecylthio)stannane       Image: Component (S)       3.11       22 °C         Clusion       Bes not contain bioaccumulative component(S)       4.       A.       A.       Mobility in soil         ici (Mg3H2(SIO3)4)       Percent distribution       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         colles       (log) Koc       Image: Component (S)       4.       Value deter       Image: Component (S)         4.       Mobility in soil       Fraction biota       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         Percent distribution       Method       Fraction water       Value       Value       Image: Component (S)       Value       Image: Component (S)       Value       Value       Value       Value       Value       Value       Image: Component (S)       Value       Image: Component (S)       Value       Image: Com	Value determination
Method         Remark         Value         Temperature           (DECD 107         -1.24         25 °C           Log Kow         Method A         Remark         Value         Temperature           EU Method A.8         3.11         22 °C         control           clusion         Des not contain bioaccumulative component(s)         A. Mobility in soil         distribution           Method         Fraction air         Fraction biota         Fraction soil         Fraction water         Value deter           (Mg8H2/GS03)4)         Percent distribution         Method         66 %         4.72 %         QSAR           (Iog) Koc         Parameter         Method         Value         Percent distribution         Percent distribution           Method         Fraction air         Fraction biota         Fraction         Fraction soil         Fraction water         Value deter           (Iog) Koc         Percent distribution         Percent distribut	Literature study
DECD 107       1.24       25 °C         Dutylbis[diodecylthio]stannane       Log Kow         Method       Remark       Value       Temperature         EU Method A.8       3.11       22 °C         clusion       Bes not contain bioaccumulative component(s)         4. Mobility in soil       Idea fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         folgs Koc       Parameter       Method       Value       Parameter       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated value         logg Koc       Image: Construction of the soil       SRC PCKOCWIN v2.0       9.588         Method       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated value       Image: Construction of the soil       Calculated value       Image: Construction of the soil       Calculated value       Image: Construction of the soil       SRC PCKOCWIN v2.0       9.588         Clugg Koc       SRC PCKOCWIN v2.0       9.588       SRC PCKOCWIN v2.0       9.588	
butybis/dodecythio/stannane         Log Kow         Method       Remark       Value       Temperature         EU Method A.8       3.11       22 °C         uclusion       0 at 1 a 2 °C       0         Des not contain bioaccumulative component(s)       4.       AMobility in soil         4.       Motility in soil       4.         (Mg8H2G103)41       Percent distribution       Fraction biota       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         Value       Image: seatiment       Fraction soil       Fraction water       Value deter         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         Value       Image: seatiment       Fraction soil       Fraction water       Value deter         Parameter       Method       Value       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         perazine       0.31 %       59.79 %       39.9 %       Calculated v         (log Koc       Parameter       Method       Value       Value         log Koc	Value determination Experimental value
Log Kow       Method       Remark       Value       Temperature         EU Method A.8       3.11       22 °C         clusion       bes not contain bioaccumulative component(s)         4. Mobility in soil       bic (Mg3H2(SiO3)4)         Percent distribution       Method       Fraction biota         Method       Fraction air       Fraction biota       Fraction soil         Mackay level III       0 %       0 %       39.3 %       56 %       4.72 %         Value       on %       39.3 %       56 %       4.72 %       QSAR         volites       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0 %       0 %       0 %       9.9 %       Calculated veloc         volites       0 %       0 %       0 %       9.9 %       Calculated veloc         volites       0 %       0 %       0 %       9.9 %       Calculate	
Method         Remark         Value         Temperature           EU Method A.8         3.11         22 °C           uclusion         oes not contain bioaccumulative component(s)         3.11         22 °C           4. Mobility in soil         accomponent(s)         accomponent(s)         4. Mobility in soil           All Mobility in soil         accomponent(s)         Fraction biota         Fraction soil         Fraction water         Value deter           Method         Fraction air         Fraction biota         Fraction soil         Fraction water         Value deter           Mackay level III         0%         0%         39.3 %         56 %         4.72 %         QSAR           volites         (log) Koc         Parameter         Method         Value         Value           Percent distribution         Fraction air         Fraction biota         Fraction soil         Fraction water         Value deter           0.00 %         0.31 %         59.79 %         39.9 %         Calculated v           perazine         (log) Koc         Parameter         Method         Value         Value           log Koc         SRC PCKOCWIN v2.0         9.588         SRC PCKOCWIN v2.0         9.588           log Koc         SRC PCKOCWIN v2.0	
EU Method A.8       3.11       22 °C         Lockusion       Does not contain bioaccumulative component(s)       4. Mobility in soil         4. Mobility in soil       A. Mobility in soil       A. Mobility in soil         Le(Mg3H2(SI03)4)       Percent distribution       Fraction air       Fraction biota         Method       Fraction air       Fraction biota       Fraction       S6 %       4.72 %       QSAR         volites       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0       10 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0       10 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0       10 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0       10 %       0 %       0 %       39.3 %       56 %       4.72 %       QSAR         volites       0       0 %       0	Value determination
clusion	Experimental value
Percent distribution           Method         Fraction air         Fraction biota         Fraction         Fraction soil         Fraction water         Value deter           Mackay level III         0 %         0 %         39.3 %         56 %         4.72 %         QSAR           Oiltes         (log) Koc         Parameter         Method         Value         Image: Constraint of the soil of the so	
Method         Fraction air         Fraction biota         Fraction sediment         Fraction soil         Fraction water         Value deter           Mackay level III         0 %         0 %         39.3 %         56 %         4.72 %         QSAR           solites         (Iog) Koc         Parameter         Method         Value         Value           Percent distribution         Fraction air         Fraction biota         Fraction soil         Fraction water         Value deter           0.00 %         0.31 %         59.79 %         39.9 %         Calculated v           iperazine         0.00 %         0.31 %         59.79 %         39.9 %         Calculated v           (log) Koc         Parameter         Method         Value         Iperazine         0.00 %         0.71         Iperazine           (log) Koc         Iperazine         Method         Value         Iperazine         0.71         Iperazine           (log Koc         SRC PCKOCWIN v2.0         9.588         Iperazine         I	
Indext     Indext of the second	
Mackay level III       0 %       39.3 %       56 %       4.72 %       QSAR         Jolites       Parameter       Method       Value         Parameter       Method       Value         Percent distribution       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         perazine       0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         (log) Koc       Parameter       Method       Value	rmination
Jointes       Interface       Interface       Interface       Interface         Parameter       Method       Value       Interface       Value         Percent distribution       Interface       Interface       Value       Value       Value         0.00 %       0.31 %       59.79 %       39.9 %       Calculated value       Value         0.00 %       0.31 %       59.79 %       39.9 %       Calculated value       Value         (log) Koc       Interface       Method       Value       Value       Value         Iog Koc       Interface       Interface       Interface       Interface       Interface         (log) Koc       Interface       Interface       Interface       Interface       Interface         Parameter       Method       Value       Value       Interface       Interface       Interface         (log) Koc       Interface       In	
Parameter       Method       Value         Percent distribution       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         perazine       0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         (log) Koc       Parameter       Method       Value       Value         log Koc       2.71       Dutylbis(dodecylthio)stannane       2.71       Dutylbis(dodecylthio)stannane       Value       Value         log Koc       SRC PCKOCWIN v2.0       9.588       9.588       SRC PCKOCWIN v2.0       9.588         iclusion       ontains component(s) with potential for mobility in the soil       SRC PCKOCWIN v2.0       9.588         5. Results of PBT and vPvB assessment       oes not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         6. Endocrine disrupting properties       oe vience of endocrine disrupting properties       oe vience of endocrine disrupting properties	
Parameter       Method       Value         Percent distribution       Fraction air       Fraction biota       Fraction       Fraction soil       Fraction water       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         perazine       (log) Koc       Parameter       Method       Value         log Koc       2.71       butylbis(dodecylthio)stannane       2.71         (log) Koc       Parameter       Method       Value         log Koc       SRC PCKOCWIN v2.0       9.588         Method       Value       SRC PCKOCWIN v2.0       9.588         Indians component(s) with potential for mobility in the soil       SRC PCKOCWIN v2.0       9.588         Secure of PBT and vPvB assessment       oes not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         6. Endocrine disrupting properties       oevidence of endocrine disrupting properties	
Percent distribution         Method       Fraction air       Fraction biota       Fraction soil       Fraction water       Value deter         0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         perazine       0.00 %       0.31 %       59.79 %       39.9 %       Calculated v         (log) Koc       Parameter       Method       Value       0.00 %       0.71       butvlbis(dodecylthio)stannane         (log) Koc       2.71       butvlbis(dodecylthio)stannane       0.00 %       0.588       0.588         (log) Koc       SRC PCKOCWIN v2.0       9.588       9.588         objection       SRC PCKOCWIN v2.0       9.588         ontains component(s) with potential for mobility in the soil       5.78 esults of PBT and vPvB assessment         oes not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         .6. Endocrine disrupting properties       o evidence of endocrine disrupting properties	Value determination
Method         Fraction air         Fraction biota         Fraction         Fraction soil         Fraction water         Value deter           0.00 %         0.31 %         59.79 %         39.9 %         Calculated v           perazine         (log) Koc	Data waiving
Method         Fraction air         Fraction biota         Fraction         Fraction soil         Fraction water         Value deter           0.00 %         0.31 %         59.79 %         39.9 %         Calculated v           perazine         (log) Koc	
sediment       sediment         0.00 %       0.31 %       59.79 %       39.9 %       Calculated we calculated	rmination
perazine       Method       Value         [log) Koc       2.71         butylbis(dodecylthio)stannane       2.71         butylbis(dodecylthio)stannane       (log) Koc         Parameter       Method       Value         log Koc       SRC PCKOCWIN v2.0       9.588         clusion       SRC PCKOCWIN v2.0       9.588         clusion       SRC PCKOCWIN v2.0       9.588         chains component(s) with potential for mobility in the soil       SRC PCKOCWIN v2.0       9.588         clusion       SRC PCKOCWIN v2.0       9.588         chains component(s) with potential for mobility in the soil       SRC PCKOCWIN v2.0       9.588         chains component(s) that adsorb(s) into the soil       SRC PCKOCWIN v2.0       9.588         chains component(s) that adsorb(s) into the soil       SRC PCKOCWIN v2.0       9.588         chains component(s) that adsorb(s) into the soil       SRC PCKOCWIN v2.0       9.588         chains component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC       6. Endocrine disrupting properties         o evidence of endocrine disrupting properties       o evidence of endocrine disrupting properties	
Iog Koc       Method       Value         Iog Koc       2.71         butylbis(dodecylthio)stannane       2.71         (Iog) Koc       Parameter       Method       Value         Iog Koc       SRC PCKOCWIN v2.0       9.588         clusion       SRC PCKOCWIN v2.0       9.588         chains component(s) with potential for mobility in the soil ontains component(s) that adsorb(s) into the soil       5. Results of PBT and vPvB assessment         coses not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC       6. Endocrine disrupting properties         o evidence of endocrine disrupting properties       o evidence of endocrine disrupting properties	value
Parameter       Method       Value         log Koc       2.71         butylbis(dodecylthio)stannane       (log) Koc         Parameter       Method       Value         log Koc       SRC PCKOCWIN v2.0       9.588         clusion       sRC PCKOCWIN v2.0       9.588         contains component(s) with potential for mobility in the soil ontains component(s) that adsorb(s) into the soil       src PCKOCWIN v2.0       9.588         5. Results of PBT and vPvB assessment one contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC 6. Endocrine disrupting properties       o evidence of endocrine disrupting properties	
log Koc       2.71         butylbis(dodecy/thio)stannane       (log) Koc         Parameter       Method       Value         log Koc       SRC PCKOCWIN v2.0       9.588         clusion       sRC PCKOCWIN v2.0       9.588         contains component(s) with potential for mobility in the soil       snc processing       snc processing         S. Results of PBT and vPvB assessment       soil       snc contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         6. Endocrine disrupting properties       o evidence of endocrine disrupting properties	
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Parameter         Method         Value           log Koc         SRC PCKOCWIN v2.0         9.588           clusion         ontains component(s) with potential for mobility in the soil         5.           pontains component(s) that adsorb(s) into the soil         5.         Results of PBT and vPvB assessment           poses not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         6.         Endocrine disrupting properties	
Iog Koc       SRC PCKOCWIN v2.0       9.588         inclusion       ontains component(s) with potential for mobility in the soil ontains component(s) that adsorb(s) into the soil       9.588         .5. Results of PBT and vPvB assessment       9.588         oes not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC         .6. Endocrine disrupting properties	
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oes not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC . <b>6. Endocrine disrupting properties</b> lo evidence of endocrine disrupting properties	
.6. Endocrine disrupting properties	C) No 1007/2000
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lo evidence of endocrine disrupting properties	
ייי סנווכו מעצואל לווברוא	
IX FAST curative	
e <b>nhouse gases</b> ne of the known components is included in the list of fluorinated greenhouse gases (Regulation (EU) No 517/2014)	
ייייט איז	
for revision: 3;8;9;11;12 Publication date: 2006-02-	-02

**Ozone-depleting potential (ODP)** 

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

Talc (Mg3H2(SiO3)4) Water ecotoxicity pH

pH shift

piperazine

Groundwater Groundwater pollutant

Water ecotoxicity pH

pH shift

# 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

Remove waste in accordance with local and/or national regulations. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

13.1.3 Packaging/Container

### No data available

# SE

CTION 14: Transport information	
Road (ADR), Rail (RID), Inland waterways (ADN), S	ea (IMDG/IMSBC), Air (ICAO-TI/IATA-DGR)
Transport	Not subject
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. <u>5. Environmental hazards</u>	
Environmentally hazardous substance mark	no
14.6. Special precautions for user	
Special provisions	
Limited quantities	
14.7. Maritime transport in bulk according to IMO instrumen	ts
Annex II of MARPOL 73/78	Not applicable, based on available data

# SECTION 15: Regulatory information

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

# **European legislation:**

VOC content Directive 2010/75/EU

VOC content	Remark
<1%	
< 12.46 g/l	

# Directive 2012/18/EU (Seveso III)

Not subject to registration according to Directive 2012/18/EU (Seveso III)

# **REACH Annex XVII - Restriction**

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

	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction
· dibutylbis(dodecylthio)stannane	, 3	<ol> <li>Shall not be used in:         <ul> <li>ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,</li> </ul> </li> </ol>

Reason for revision: 3;8;9;11;12

	Regulation (EC) No 1272/2008:	— tricks and jokes,
	<ul> <li>(a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;</li> <li>(b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10;</li> <li>(c) hazard class 4.1;</li> <li>(d) hazard class 5.1.</li> </ul>	<ul> <li>games for one or more participants, or any article intended to be used as such, even wornamental aspects,</li> <li>2. Articles not complying with paragraph 1 shall not be placed on the market.</li> <li>3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:</li> <li>can be used as fuel in decorative oil lamps for supply to the general public, and,</li> <li>present an aspiration hazard and are labelled with H304,</li> <li>4. Decorative oil lamps for supply to the general public, shall not be placed on the market inless they conform to the European Standard on Decorative oil lamps (EN 14059) adopt by the European Committee for Standardisation (CEN).</li> <li>5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers st ensure, before the placing on the market, that the following requirements are met:</li> <li>a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legi and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage";</li> <li>b) grill lighter fluids, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</li> <li>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";</li> <li>c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are legi and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung</li></ul>
dibutylbis(dodecylthio)stannane	Organostannic compounds	<ol> <li>Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is acting as biocide in free association paint.</li> <li>Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture acts as biocide to prevent the fouling by micro-organisms, plants or animals of:         <ul> <li>(a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;</li> <li>(b) cages, floats, nets and any other appliance or equipment used for fish or shellfish farming;</li> <li>(c) any totally or partly submerged appliance or equipment.</li> <li>Shall not be placed on the market, or used, as substances or in mixtures where the substance or mixture is intended for use in the treatment of industrial waters.</li> <li>17:-isubstituted organostannic compounds:</li> <li>17:-isubstituted organostannic compounds such as tributy/tin (TBT) compounds and triphenyltin (TPT) compounds shall not be used after 1 July 2010 in articles where the concentration in the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.</li> <li>b) Articles not complying with point (a) shall not be placed on the market after 1 July 201 except for articles that were already in use in the Community before that date.</li> <li>c) Biotyttin (DBT) compounds shall not be used after 1 January 2012 in mixtures and articles for supply to the general public where the concentration in the markure or the afticles for supply to the general public where the general public:</li></ul></li></ol>
piperazine	Substances falling within one or more of the following points: (a) substances classified as any of the following in Part 3 of Annex VI to Regulation (EC) No 1272/2008: — carcinogen category 1A, 1B or 2, or germ cell mutagen category 1A, 1B or 2, but excluding any such substances	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/20
on for revision: 3;8;9;11;12	·	Publication date: 2006-02-02

bit deciding any sub-bit texture dramper y, 1, 3, 80 - 2         bit deciding any sub-bit texture dramper y, 1, 20, 10         construction         constat decider		classified due to effects only following exposure by inhalation
Ide to effect only following expoure by Instance and the state strangery 1, 14 or 18 - white instance stagery 2 - serious ere damage category 1 or ere instance category 2 - serious ere damage category 1 or ere instance category 2 Diplostering instance in its instance.           Key Construction Constru		
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with a chargery 2         (b) subtraces black in America I to Regulation (EC) (D) 23/2/07 with a feature (EC) black interest in the Regulation (EC) (D) 23/2/07 with a constitution (EC) (D) 23/2/07 with a constit (		
ID       ubstances listed in Anexe 10 begaution (1C) to 1222/030 et le uropean Parlament and of the Council (1C) to 1222/030 et le uropean Parlament and of the Council (1C) to 1222/030 et levice a condition is specified in a less one of the columns g, in and of the table in that Anexe (1) abstances listed in Appendix 3 to this Anexe. The ar acillary requirements is paragraphy 7 mixtores for use for tatooing purposes, whether or not the continue authances (1) abstances listed in Appendix 3 to this Anexe. We are stress or the column of this entry.         Not data available       Etami (composés organiques de] (en 5i): D: 1a mention "D" signific que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant p contact direct que présence de l'append tans l'ain.         Agents cancérligènes, mutagènes et reprotosiques (Code du bien-étre au travail, Live VU, lire vV, lire v2)       reprotosique catégorie 1 Ao u 18 selon CLP, n.s.a.         National legislation distribution (Code du bien-étre au travail, Live VU, lire va), lire value (Code du bien-étre au travail, Live VU, lire value)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         National legislation (SZW - Light van voor de voortplanting giftige stoffen (varchievassilibie)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (var.vbbaarheid); 2         Notatal legislation Frace ZZW. Light van voor de voortplanting giftige stoffen (var.vbbaarheid)       Piperazine; Opgenomen in SZW-light van voor de voortplanting giftige stoffen (var.vbbaarheid); 2         Notatal legislation Frace ZZW. Light van voord de voortplanting giftige stoffen (var.vb		÷ ,
Rescription peak       Performance and of the Control (c) substances listed in Annee XV to Regulation (c) substances listed in Annee XV to Regulation (c) substances listed in Annee XV to Regulation (c) substances listed in Aprendia XB to bits Annee. XV to Regulation (c) substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits Annee. XV of Substances listed in Aprendia XB to bits entry.         National legislation Belgium       XX MIX AST curdity:         National legislation Belgium       Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant protoxique catégorie LA ou LB selon CLP, n.s.a.         Resorption peau       Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant protoxique catégorie LA ou LB selon CLP, n.s.a.         Mational legislation The Metherlands       ZetMit AST curative         XetMit AST curative       Plereazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijk van voor de voortplanting giftige stoffen (vuchtbaarheid); 2       Plereazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vuchtbaarheid); 2		
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and a of column 2 of this entry spip/to all mittures for us of traitoning purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.         National legislation Belgium 282-MIX FASI curative         National legislation Belgium dibutybis(dolecythio)stannane         Résorption peau         Extin (Composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant p contact direct que par présence de l'agent dian's rai.         Agents cancérigènes, mutagènes et reprotoxiques       reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.         National legislation The Netherlands 202-MIX FAST curative       reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.         National legislation The Netherlands 202-MIX FAST curative       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZV - Lijt van voor de voortplanting giftige stoffen (rucktbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZV - Lijt van voor de voortplanting giftige stoffen (rucktbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZV - Lijt van voor de voortplanting giftige stoffen (rucktbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZM- Lijt van voor de voortplanting giftige stoffen (rucktbaarheid)       Piperazine		
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Falling within points (a) to (d) of this column of this entry.         National legislation Belgium 22K-MIX FAST curative         No data available         Résorption peau       Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant p contact direct que par présence de l'agent dans l'air.         Agents cancérigènes, imutagènes et reportoxique catégorie I A ou IB selon CLP, n.s.a.         National legislation The Netherlands         2X.MIX FAST curative         Vive tri, titre 2)         National legislation The Netherlands         2X.MIX FAST curative         Vivortoplanting gritige stoffen (ontwikkeling); 2         (nottwikkeling)         SZW - Lijt van voor de voortplanting gritige stoffen (ontwikkeling); 2         (nottwikkeling)         SZW - Lijt van voor de voortplanting gritige stoffen (vruchtbaarheid); 2         National legislation France         ZA.MIX FAST curative         National legislation Germany         ZA.MIX FAST curative         Vick Kast curative         Vick Kast curative         ZM.MIX FAST curative         Vick Kast curative         ZM.MIX FAST curative         ZM.MIX FAST curative         Vick Kast curative         <		
Initia entry.           National legislation Belgium ZRMIXFAST curative           Recorption peau         Etain (composes organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant p contact direct que par présence de l'agent dans l'air.           Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-Aftre au travail, Livre VI, titre 2)         reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.           National legislation The Netherlands ZRMIXFAST curative         Z           SZM-U Liyt van voor de voortplanting affige stoffen (ontwikkeling)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2           SZW-Lijst van voor de voortplanting giftige stoffen (ontwikkeling)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Vational legislation France ZEMIXFAST curative         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Vational legislation France ZEMIXFAST curative         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Verordnung giftige stoffen (vruchtbaarheid)         Pipérazine (poussières et vapeurs); R2 (mock         2; Verordnung über Anlagen zum Umgang mit wassergefahrdenden Stoffen (AwSV) - 18. April 2017 Taic (Mag2/IZG)(2)[a]           [A-Luft         5.2.1. zeolities         2.1. zeolities         2.2.1. zeolities <td></td> <td>whether or not they contain a substance</td>		whether or not they contain a substance
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ZK-MIX FAST curative         No data available         dibutylbis/dodecylthiolstamane         Résorption peau       Etain (composés organiques de) (en Sn); D; La mention "D" signifie que la résorption de l'agent, via la peau, les muqueuses ou les yeux, constitue une partie importante de l'exposition totale. Cette résorption peut se faire tant p contact direct que par présence de l'agent dans l'air.         Agents cancérigènes, interprotoxiques (Code du blen-être au travail, Livre V, litre 2)       reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.         National legislation The Netherlands       ZXMIX FAST curative       Verte 2)         National legislation The Netherlands       Z(1); Algemene Beoordelingsmethodiek (ABM)       piperazine         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         Notata available       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         Notata available       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         Notata available       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         Notata available       Piperazine; Opgenomenin set vapeurs); R2		this entry.
Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-être au travail, Livre VI, titre 2)       reprotoxique catégorie IA ou IB selon CLP, n.s.a.         National legislation The Netherlands       ZXMIX FAST Curative         SZMM FAST Curative       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling)         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2 voortplanting giftige stoffen (ontwikkeling)         National legislation France ZKMIX FAST curative       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2 voortplanting giftige stoffen (vruchtbaarheid)         National legislation France ZKMIX FAST curative No data available piperazine Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         National legislation France ZKMIX FAST curative No Kost available       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 Talc (Mg3H2/SO3Ja)         TA-Luft       5.2.1         Zeitte       5.2.1         Imperazine TA-Luft       5.2.1         TA-Luft       5.2.5/1         TA-Luft       5.2.5/1         TA-Luft       5.2.7.1.3         TA-Luft       5.2.7.1.3         TA-Sorto       5.2.7.1.3         TA-Luft       5.2.7.1.3         TA-Luft       5	<u>2K-MIX FAST curative</u> No data available	2
Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-être au travail, Livre VI, titre 2)       reprotoxique catégorie IA ou IB selon CLP, n.s.a.         National legislation The Netherlands       ZXMIX FAST Curative         SZMM FAST Curative       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling)         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2 voortplanting giftige stoffen (ontwikkeling)         National legislation France ZKMIX FAST curative       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2 voortplanting giftige stoffen (vruchtbaarheid)         National legislation France ZKMIX FAST curative No data available piperazine Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         National legislation France ZKMIX FAST curative No Kost available       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 Talc (Mg3H2/SO3Ja)         TA-Luft       5.2.1         Zeitte       5.2.1         Imperazine TA-Luft       5.2.1         TA-Luft       5.2.5/1         TA-Luft       5.2.5/1         TA-Luft       5.2.7.1.3         TA-Luft       5.2.7.1.3         TA-Sorto       5.2.7.1.3         TA-Luft       5.2.7.1.3         TA-Luft       5		
Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-être au travai), Livre VI, titre 2)         reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.           National legislation The Netherlands ZK-MIX FAST curative         ZK-MIX FAST curative           Waterbezwaarlijkheid         Z (1); Algemene Beoordelingsmethodiek (ABM) piperazine           SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2           SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Vootge zene voortplanting giftige stoffen (vruchtbaarheid)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Vootge zene voortplanting giftige stoffen (vruchtbaarheid)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           Vational legislation Germany ZK-MIX FAST curative         Voortplanting über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 Tatic (Mg3H2ISIO314)           TA-Luft         5.2.1         5.2.1           zeolites         TA-Luft         5.2.5/1           TA-Luft         5.2.5/1         5.2.5/1		
mutagènes et reprotoxiques (Code du bien-être au travail, Livre V; Itre 2)         National legislation The Netherlands ZK-MIX FAST curative         Waterbezwaarlijkheid       Z (1); Algemene Beoordelingsmethodiek (ABM)         piperazine       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France       ZK-MIX FAST curative         No data available       Piperazine (poussières et vapeurs); R2         ereproduction       Pipérazine (poussières et vapeurs); R2         WGK       2; Veordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc.(Mg2H215/03/4)       5.2.1         Zeolités       [TA-Luft         TA-Luft       5.2.1         zeolités       [TA-Luft         TA-Luft       5.2.5/l         dibutybbis/dodecy/thio stanname       [TA-Luft         TA-Luft       5.2.5/l         dibutybbis/dodeer/Ethiologen, organische - n-Butylzinnverbindungen; Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu kann auch bei Einhaltung des AGW und des BGW		
mittagehes et reprotoxiques (Code du bien-être au travail, Livre V), thre 2)         National legislation The Netherlands         Zx-MIX FAST curative         Waterbezwardlijkheid       Z (1); Algemene Beoordelingsmethodiek (ABM)         piperazine         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France Zx-MIX FAST curative No data available       Piperazine (poussières et vapeurs); R2         Vational legislation Germany Zx-MIX FAST curative       Z (verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 Talc(Mz3H2(SiO3)4)         TA-Luft       5.2.1         zeolites       5.2.1         TA-Luft       5.2.1         piperazine       S.2.5/1         dibutylbis/dodecytthiojstanname       S.2.5.1         TA-Luft       5.2.5.1         TA-Luft       5.2.5.1         TA-Luft       5.2.5.1         TA-Luft       S.2.5.1         T	Agents cancérigènes,	
Livre VI, titre 2)         National legislation The Netherlands         2K-MIX FAST curative         Waterbezwaarlijkheid       Z (1); Algemene Beoordelingsmethodiek (ABM)         piperazine         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (uruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France       Zk-MIX FAST curative No data available       Piperazine         Zk-MIX FAST curative       Pipérazine (poussières et vapeurs); R2       Piperazine         Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2       Piperazine         XetMIX FAST curative       Xoff       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2/SIO3)4)       TA-Luft       5.2.1         TA-Luft       5.2.1       Piperazine         Image: Superazine       TA-Luft       5.2.5/1         dibutylbis(dodecy(thio)stanname       Z.1.3       TA-Luft         TA-Luft       5.2.7/1.3       5.2.7/1.3         TAcLuft       5.2.7/1.3       TA-Luft         TA-Luft       5.2.7/1.3       TA-Luft </td <td></td> <td></td>		
National legislation The Netherlands         2K-MIX FAST curative         Waterbezwaarijkheid       Z (1); Algemene Beoordelingsmethodiek (ABM)         piperazine         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (ntwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France 2K-MIX FAST curative No data available piperazine       Piperazine (poussières et vapeurs); R2         National legislation Germany 2K-MIX FAST curative No GK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Tac. (MgäHz2SiO3)4)       IA-Luft       5.2.1         TA-Luft       5.2.1       2         zeolites       ITA-Luft       5.2.1         TA-Luft       5.2.5/i       1         dibutylbis/dodecylthio)stannane       Innverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu Kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Tactuschädigung       Kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden. <td>(Code du bien-être au travail,</td> <td></td>	(Code du bien-être au travail,	
2K-MIX FAST curative           Waterbezwaarilykheid         Z (1); Algemene Beoordelingsmethodiek (ABM)           piperazine         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2           SZW - Lijst van voor de voortplanting giftige stoffen (Intwikkeling)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)         Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2           National legislation france 2K-MIX FAST curative No data available piperazine         Piperazine (poussières et vapeurs); R2           Regret curative No data available         Pipérazine (poussières et vapeurs); R2           ZK-MIX FAST curative         Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017           Talc (MgäH2(SiO3)4)         TA-Luft           TA-Luft         S.2.1           zeolltes         FI-A-Luft           TA-Luft         S.2.5/1           dibutylbis/dodecylthiojstannane         S.2.7.1.3           TRACS00 - Risiko der Fruchtschädigung kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.           Hautresorptive Stoffe         Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	Livre VI, titre 2)	
piperazine       Construction         SZW - Lijst van voor de voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2         SZW - Lijst van voor de voortplanting giftige stoffen (vruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France       2K-MIX FAST curative         No data available piperazine       Pipérazine (poussières et vapeurs); R2         Zk-MIX FAST curative       Pipérazine (poussières et vapeurs); R2         VKGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)d)       5.2.1         TA-Luft       5.2.1         piperazine       5.2.1         TA-Luft       5.2.5/l         dibutylbis/dodecythio/stannane       5.2.7.1.3         TR6S500 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	2K-MIX FAST curative	_
voortplanting giftige stoffen (ontwikkeling)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         voortplanting giftige stoffen (vruchtbaarheid)       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France ZK-MIX FAST curative No data available piperazine       Pipérazine (poussières et vapeurs); R2         Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         National legislation Germany ZK-MIX FAST curative       Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       TA-Luft         TA-Luft       S.2.1         zeolites       S.2.1         TA-Luft       S.2.1         piperazine       TA-Luft         TA-Luft       S.2.1         giberazine       S.2.5/1         dibutylbis(dodecythio)stannane       S.2.7.1.3         TRGSB00 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen; Di-n-butylzinnverbindungen; H; Hautresorptiv	,	
[ontwikkeling]       Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2         National legislation France       ZK-MIX FAST curative         No data available       piperazine         [Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       5.2.1         TA-Luft       5.2.1         zedites       5.2.1         IA-Luft       5.2.1         zedites       5.2.5/1         dibutylbis(dodecythio)stannane       5.2.5/1         TA-Luft       5.2.5/1         dibutylbis(dodecythio)stannane       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu         Tackuft       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	SZW - Lijst van voor de	Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (ontwikkeling); 2
voortplanting giftige stoffen (vruchtbaarheid)       Image: Store of the store of	voortplanting giftige stoffen	
ZK-MIX FAST curative         No data available         piperazine         Catégorie toxique pour la reproduction         Pipérazine (poussières et vapeurs); R2         Rational legislation Germany         2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)         TA-Luft       5.2.1         zeolites         TA-Luft       5.2.1         piperazine         TA-Luft       5.2.1         giber automation       5.2.1         zeolites       5.2.1         TA-Luft       5.2.1         giber azine       5.2.1         TA-Luft       5.2.5/1         dibutylbis(dodecylthio)stannane       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigung         Kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv		Piperazine; Opgenomen in SZW-lijst van voor de voortplanting giftige stoffen (vruchtbaarheid); 2
piperazine         Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         National legislation Germany         2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       5.2.1         TA-Luft       5.2.1         zeolites       5.2.1         TA-Luft       5.2.1         giber Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         TA-Luft       5.2.1         zeolites		
Catégorie toxique pour la reproduction       Pipérazine (poussières et vapeurs); R2         National legislation Germany       2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       [TA-Luft         TA-Luft       5.2.1         zeolites       [TA-Luft         TA-Luft       5.2.1         piperazine       [TA-Luft         TA-Luft       5.2.5/I         dibuty(bis(dodecylthio)stannane)         TA-Luft       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigung         kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.       Hautresorptive Stoffe	(vruchtbaarheid) National legislation France	
reproduction       Image: Section Sermany         2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       Image: Ta-Luft         TA-Luft       5.2.1         zeolites       Image: Ta-Luft         TA-Luft       5.2.1         piperazine       Image: Ta-Luft         TA-Luft       5.2.5/1         dibutylbis(dodecylthio)stannane       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigug kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France 2K-MIX FAST curative	
National legislation Germany         2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)         TA-Luft       5.2.1         zeolites         TA-Luft       5.2.1         piperazine         TA-Luft       5.2.5/1         dibutylbis(dodecylthio)stannane         TA-Luft       5.2.7.1.3         TA-Luft       5.2.7.1.3         TAGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu         Fruchtschädigung       kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) <u>National legislation France</u> <u>2K-MIX FAST curative</u> No data available	
2K-MIX FAST curative         WGK       2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         Talc (Mg3H2(SiO3)4)       TA-Luft         TA-Luft       5.2.1         zeolites	(vruchtbaarheid) <u>National legislation France</u> <u>2K-MIX FAST curative</u> No data available <u>piperazine</u>	Pipérazine (poussières et vapeurs); R2
Talc (Mg3H2(SiO3)4)         TA-Luft         zeolites         TA-Luft         jperazine         TA-Luft         5.2.5/I         dibutylbis(dodecylthio)stannane         TA-Luft         5.2.5/I         dibutylbis(dodecylthio)stannane         TA-Luft         5.2.7.1.3         TRGS900 - Risiko der         Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu         Fruchtschädigung       kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) <u>National legislation France</u> <u>2K-MIX FAST curative</u> No data available <u>piperazine</u> Catégorie toxique pour la	Pipérazine (poussières et vapeurs); R2
zeolites         TA-Luft       5.2.1         piperazine         TA-Luft       5.2.5/I         dibutylbis(dodecylthio)stannane         TA-Luft       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigug         Fruchtschädigung       kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France <u>2K-MIX FAST curative</u> No data available <u>piperazine</u> Catégorie toxique pour la reproduction National legislation Germany	Pipérazine (poussières et vapeurs); R2
TA-Luft       5.2.1         piperazine         TA-Luft       5.2.5/I         dibutylbis(dodecylthio)stannane         TA-Luft       5.2.7.1.3         TAGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigung         Kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) <u>National legislation France</u> <u>2K-MIX FAST curative</u> No data available <u>piperazine</u> Catégorie toxique pour la reproduction <u>National legislation Germany</u> <u>2K-MIX FAST curative</u> WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
piperazine         TA-Luft       5.2.5/I         dibutylbis(dodecylthio)stannane         TA-Luft       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigurg         Fruchtschädigung       kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
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dibutylbis(dodecylthio)stannane         TA-Luft       5.2.7.1.3         TRGS900 - Risiko der       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigu         Fruchtschädigung       kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.         Hautresorptive Stoffe       Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft zeolites TA-Luft	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 5.2.1
TA-Luft5.2.7.1.3TRGS900 - Risiko der FruchtschädigungZinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigung kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.Hautresorptive StoffeZinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft zeolites TA-Luft	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017 5.2.1
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Fruchtschädigung         kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.           Hautresorptive Stoffe         Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft zeolites TA-Luft piperazine TA-Luft dibutylbis(dodecylthio)stannane	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         5.2.1         5.2.1         5.2.5/1
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National legislation Austria	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft zeolites TA-Luft piperazine TA-Luft dibutylbis(dodecylthio)stannane TA-Luft TRGS900 - Risiko der	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         5.2.1         5.2.1         5.2.1         5.2.5/1         2         5.2.7.1.3         Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigun kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.
	(vruchtbaarheid) National legislation France 2K-MIX FAST curative No data available piperazine Catégorie toxique pour la reproduction National legislation Germany 2K-MIX FAST curative WGK Talc (Mg3H2(SiO3)4) TA-Luft zeolites TA-Luft piperazine TA-Luft dibutylbis(dodecylthio)stannane TA-Luft TRGS900 - Risiko der Fruchtschädigung	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017         5.2.1         5.2.1         5.2.1         5.2.5/1         2         5.2.7.1.3         Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; Z; Risiko der Fruchtschädigur kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.
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Reason for revision: 3;8;9;11;12

<u>piperazine</u>		
Fortpflanzungsgefährdend [fruchtschädigend (entwicklungsschädigend)]	Piperazin und seine Salze; d	
Fortpflanzungsgefährdend [Beeinträchtigung der Fortpflanzungsfähigkeit (Fruchtbarkeit)]	Piperazin und seine Salze; f	
Gefahr der Sensibilisierung der Haut	Piperazin und seine Salze; Sh	
Gefahr der Sensibilisierung der Atemwege	Piperazin und seine Salze; Sa	
ional legislation United Kingdom 2K-MIX FAST curative No data available piperazine		
Skin Sensitisation	Piperazine; Sen	
Respiratory sensitisation	Piperazine; Sen	
dibutylbis(dodecylthio)stannane		
Skin absorption	Tin compounds, organic, except Cyhexatin (ISO), (as Sn); Sk	
er relevant data 2K-MIX FAST curative		
No data available Talc (Mg3H2(SiO3)4)		

1410 (14185112(5105)+1	
IARC - classification	3; Talc
TLV - Carcinogen	Talc: Containing no asbestos fibers; A4
	Talc: Containing asbestos fibers; A1
zeolites	
IARC - classification	3; Zeolites other than erionite
piperazine	
TLV - Skin Sensitisation	Piperazine and salts, as piperazine; SEN; Sensitization
TLV - Respiratory Sensitisation	Piperazine and salts, as piperazine; SEN; Sensitization
TLV - Carcinogen	Piperazine and salts, as piperazine; A4
dibutylbis(dodecylthio)stannane	
TLV - Skin absorption	Tin, organic compounds, as Sn; Skin; Danger of cutaneous absorption
TLV - Carcinogen	Tin, organic compounds, as Sn; A4

# 15.2. Chemical safety assessment

No chemical safety assessment has been conducted for the mixture.

# SECTION 16: Other information

Full text of any H- and EUH-statements referred to under section 3:			
H228 Flammable solid.			
H312 Harmful in c	H312 Harmful in contact with skin.		
H314 Causes sever	H314 Causes severe skin burns and eye damage.		
H315 Causes skin i	H315 Causes skin irritation.		
H317 May cause a	H317 May cause an allergic skin reaction.		
H318 Causes serio	H318 Causes serious eye damage.		
H334 May cause a	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H341 Suspected of	H341 Suspected of causing genetic defects.		
H360FD May damage fertility. May damage the unborn child.			
H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.			
H372 Causes damage to organs (thymus) through prolonged or repeated exposure.			
H400 Very toxic to aquatic life.			
H410 Very toxic to aquatic life with long lasting effects.			
	H412 Harmful to aquatic life with long lasting effects.		
EUH208 Contains a	EUH208 Contains a sensitising substance. May produce an allergic reaction.		
(*)	INTERNAL CLASSIFICATION BY BIG		
ADI	Acceptable daily intake		
AOEL	Acceptable operator exposure level		
ATE	Acute Toxicity Estimate		
CLP (EU-GHS)	Classification, labelling and packaging (Globally Harmonised System in Europe)		
DMEL	Derived Minimal Effect Level		
DNEL	Derived No Effect Level		
EC50	Effect Concentration 50 %		
ErC50	EC50 in terms of reduction of growth rate		
LC50	Lethal Concentration 50 %		
LD50	Lethal Dose 50 %		
NOAEL	No Observed Adverse Effect Level		
NOEC	No Observed Effect Concentration		
Reason for revision: 3;8;9;11;1	2 Publication date: 2006-02-02		
	Date of revision: 2022-05-17		

BIG number: 43135

OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, Bioaccumulative & Toxic
PNEC	Predicted No Effect Concentration
STP	Sludge Treatment Process
vPvB	very Persistent & very Bioaccumulative

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

Reason for revision: 3;8;9;11;12

Publication date: 2006-02-02 Date of revision: 2022-05-17

Revision number: 0300