# SAFETY DATA SHEET



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

# MEGAPLAST PU 25S curative

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

#### 1.1. Product identifier

: MEGAPLAST PU 25S curative Product name **Registration number REACH** : Not applicable (mixture)

Product type REACH : Mixture

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

#### 1.2.1 Relevant identified uses

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

Novatio\*

Industrielaan 5B

B-2250 Olen

**3** +32 14 25 76 40

**₼** +32 14 22 02 66

info@novatio.be

\*NOVATIO is a registered trademark of Novatech International N.V.

#### Manufacturer of the product

Novatech International N.V.

Industrielaan 5B

B-2250 Olen

**2** +32 14 85 97 37

**4** +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

Classified as dangerous according to the criteria of Regulation (EC) No 1272/2008

Class	Category	Hazard statements
Aquatic Chronic	category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

#### **Hazard pictograms**

No pictogram is used

Signal word No signal word

H-statements H412

Harmful to aquatic life with long lasting effects.

P-statements

Avoid release to the environment. P273

Supplemental information

Contains: piperazine; dibutylbis(dodecylthio)stannane. May produce an allergic reaction.

#### 2.3. Other hazards

No other hazards known

Created by: Brandweerinformatiecentrum voor gevaarlijke stoffen vzw (BIG)

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# SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name REACH Registration No	CAS No EC No	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	0.5%≤C<1%	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	0.25% ≤C<0.3%	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))

<sup>(1)</sup> For H- and EUH-statements in full: see section 16

# **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

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<sup>(2)</sup> Substance with a Community workplace exposure limit

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

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

#### 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 and formation of metal oxides.

#### 5.3. Advice for firefighters

#### 5.3.1 Instructions:

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.

#### 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. Store in a dry area. Keep container in a well-ventilated place. 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.

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·	Time-weighted average exposure limit 8 h (Indicative occupational exposure limit value)	0.1 mg/m³
		0.3 mg/m³

#### Belgium

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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/m³
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/m³

#### The Netherlands

Piperazine	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.028 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.1 mg/m <sup>3</sup>
	Short time value (Public occupational exposure limit value)	0.084 ppm
	Short time value (Public occupational exposure limit value)	0.3 mg/m³
Talk (respirabel)	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.016 ppm
	Time-weighted average exposure limit 8 h (Public occupational exposure limit value)	0.25 mg/m³

#### France

Tunec		
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	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	5 mg/m³
Poussières réputées sans effet spécifique	Time-weighted average exposure limit 8 h (VRC: Valeur réglementaire contraignante)	10 mg/m <sup>3</sup>

#### Germany

Allgemeiner Staubgrenzwert: Alveolengängige Fraktion	Time-weighted average exposure limit 8 h (TRGS 900)	1.25 mg/m <sup>3</sup>
Piperazin	Time-weighted average exposure limit 8 h (TRGS 900)	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 ppm
	Time-weighted average exposure limit 8 h (TRGS 900)	0.009 mg/m³

### Austria

Piperazin und seine Salze	Tagesmittelwert (MAK)	0.1 mg/m³
	Kurzzeitwert 15(Miw) 4x (MAK)	0.3 mg/m³
Talk (asbestfaserfrei)	Tagesmittelwert (MAK)	2 mg/m³

### UK

Inhalable dust	Time-weighted average exposure limit 8 h (Workplace exposure limit (EH40/2005))	10 mg/m <sup>3</sup>
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/m³
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)	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))	0.2 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 (R)
Piperazine and salts, as piperazine	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.03 ppm (IFV)
Talc: Containing asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 fibers/cm³ (F)
Talc: Containing no asbestos fibers	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	2 mg/m³ (R,E)
Tin, organic compounds, as Sn	Time-weighted average exposure limit 8 h (TLV - Adopted Value)	0.1 mg/m <sup>3</sup>
	Short time value (TLV - Adopted Value)	0.2 mg/m <sup>3</sup>

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(R): Respirable fraction

(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

#### $\bf 8.1.3$ 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>	

zeolites

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>	

piperazine

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/m³	
	Acute local effects inhalation	0.3 mg/m <sup>3</sup>	

# DNEL/DMEL - General population Talc (Mg3H2(SiO3)4)

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/m³	
	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	
L <u>.</u>	Acute systemic effects oral	160 mg/kg bw/day	

zeolites

Effect level (DNEL/DMEL)	Туре	Value	Remark
DNEL	Long-term local effects inhalation	0.003 mg/m³	
	Long-term systemic effects dermal	1.25 mg/kg bw/day	
	Long-term systemic effects oral	1.25 mg/kg bw/day	

piperazine

Effect level (DNEL/DMEL)	Туре	Value	Remark
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/m³	

zeolites

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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piperazine

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.

	Measured breakthrough time	Thickness	Protection index	Remark
nitrile 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	Variable in colour, depending on the composition
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
Boiling point	No data available in the literature
Relative vapour density	No data available in the literature
Vapour pressure	3 hPa ; 25 °C ; Calculated
Solubility	No data available in the literature
Relative density	1.25
Absolute density	1246 kg/m³
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

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# 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 and formation of metal 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**

#### MEGAPLAST PU 25S 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 402	> 2000 mg/kg bw		Rabbit (female)	Experimental value	
Inhalation (dust)	LC50		> 3.35 mg/l air	4 h	Rat (male / female)	Experimental value	

piperazine

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

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		1000 mg/kg bw - 2000 mg/kg bw	24 h	Rabbit (female)	Experimental value	

#### Conclusion

Not classified for acute toxicity

#### Corrosion/irritation

### MEGAPLAST PU 25S curative

No (test)data on the mixture available

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Judgement is based on the relevant ingredients

Talc (Mg3H2(SiO3)4)

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405		1; 24; 48; 72 hours	Rabbit	l '	Single treatment without rinsing
Not applicable (in vitro test)	Not irritating	EU Method B.46				Experimental value	

zeolites

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye	Not irritating	OECD 405		24; 72 hours	Rabbit	l '	Single treatment without rinsing
Skin	Not irritating	OECD 404	4 h	1; 24; 48; 72 hours	Rabbit	Experimental	
						value	

piperazine

Route of exposure	Result	Method	Exposure time	Time point	Species	Value	Remark
						determination	
Eye						Data waiving	
Not applicable (in vitro test)	Corrosive	OECD 431	3 minutes			Experimental value	

dibutylbis(dodecylthio)stannane

Route of exposure	Result	Method	Exposure time	Time point		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	

#### Conclusion

Not classified as irritating to the skin

Not classified as irritating to the eyes

Not classified as irritating to the respiratory system

#### Respiratory or skin sensitisation

#### MEGAPLAST PU 25S curative

No (test)data on the mixture available

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

	Route of exposure	Result	Method	Exposure time	Observation time	Species	Value determination	Remark	١
					point				١
	Skin	Not sensitizing	OECD 406			Guinea pig (female)	Experimental value		
	Inhalation	Not sensitizing				Rat (male)	Experimental value		
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Observation time Value determination Remark Route of exposure Result Method Exposure time Species point OECD 406 Skin Not sensitizing Guinea pig Experimental value

piperazine

Route of exposure	Result	Method	•	Observation time point	Species	Value determination	Remark
Dermal (on the ears)	Sensitizing	Equivalent to OECD 429			Mouse (female)	Experimental value	
Inhalation (dust)	Sensitizing	Human observation			Human (male / female)	Experimental value	

dibutylbis(dodecylthio)stannane

Route of exposure	Result	Method	 Observation time point	Species	Value determination	Remark
Skin	Sensitizing	OECD 406		Guinea pig (male / female)	Read-across	

#### Conclusion

Not classified as sensitizing for skin Not classified as sensitizing for inhalation

#### Specific target organ toxicity

#### MEGAPLAST PU 25S curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients

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Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (diet)	NOAEL	Equivalent to OECD 452	100 mg/kg bw/day		No effect	101 day(s)	l _ `` '	Experimental value
Dermal								Data waiving
Inhalation (aerosol)	NOAEC	Equivalent to OECD 452	10.8 mg/m³ air		No effect	52 weeks (7h / day, 5 days / week)	Rat (male / female)	Experimental value

#### zeolites

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time		Value determination
Oral (diet)	NOAEL	Subchronic toxicity test	5000 ppm		No effect	90 day(s)	Rat (male)	Experimental value
Oral (diet)	NOAEL	Subchronic toxicity test	10000 ppm		No effect	90 day(s)	Rat (female)	Experimental value
Dermal								Data waiving
Inhalation (dust)	NOAEL		> 20 mg/m³ air		No effect	4 weeks (3 times / week)	Rat (male / female)	

# piperazine

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	- •	Value determination
Oral (diet)	NOAEL	OECD 408	627 mg/kg		No effect	90 day(s)	Rat (male /	Experimental
			bw/day				female)	value

#### dibutylbis(dodecylthio)stannane

Route of exposure	Parameter	Method	Value	Organ	Effect	Exposure time	 Value determination
Unknown			STOT RE cat.1				Literature study

#### Conclusion

Not classified for subchronic toxicity

#### Mutagenicity (in vitro)

#### MEGAPLAST PU 25S curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients

#### Talc (Mg3H2(SiO3)4)

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
activation, negative					
without metabolic					
activation					

# zeolites

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic activation, negative without metabolic	'	Bacteria (S. typhimurium and E. coli)		Experimental value	
activation					
Negative with metabolic activation, negative without metabolic activation	OECD 476	Mouse (lymphoma L5178Y cells)		Experimental value	

### piperazine

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	Equivalent to OECD 476	Mouse (lymphoma L5178Y		Experimental value	
activation, negative		cells)			
without metabolic					
activation					
Negative with metabolic	Equivalent to OECD 471	Bacteria (S.typhimurium)		Experimental value	
activation, negative					
without metabolic					
activation					

#### dibutylbis(dodecylthio)stannane

Result	Method	Test substrate	Effect	Value determination	Remark
Negative with metabolic	OECD 471	Bacteria (S. typhimurium		Experimental value	
activation, negative		and E. coli)			
without metabolic					
activation					

### Mutagenicity (in vivo)

#### MEGAPI AST PU 25S curative

No (test)data on the mixture available

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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	5 days (1x / day)	Rat (male)		Experimental value
	478				

zeolites

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Equivalent to OECD		Rat (male)		Experimental value
	475				

piperazine

Result	Method	Exposure time	Test substrate	Organ	Value determination
Negative (Oral (stomach tube))	Equivalent to OECD		Mouse (male / female)		Experimental value
	474				

dibutylbis(dodecylthio)stannane

Result	Method	Exposure time	Test substrate	Organ	Value determination
Positive					Literature study

#### $\underline{\textbf{Conclusion}}$

Not classified for mutagenic or genotoxic toxicity

#### Carcinogenicity

#### MEGAPLAST PU 25S curative

No (test)data on the mixture available

Judgement is based on the relevant ingredients

Talc (Mg3H2(SiO3)4)

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

zeolites

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

#### Conclusion

Not classified for carcinogenicity

# Reproductive toxicity

#### MEGAPLAST PU 25S 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
			1.500 (1	10 1 (1 ( 1 )				determination
	NOAEL	Developmenta	0, 0	10 days (1x / day)	Rat	No effect		Experimental
(Oral (stomach tube))		I toxicity study	bw/day					value
Maternal toxicity (Oral	NOAEL	Developmenta	≥ 1600	10 days (1x / day)	Rat	No effect		Experimental
(stomach tube))		I toxicity study	mg/kg					value
			bw/day					
Effects on fertility (Oral	NOAEL	Equivalent to	> 900 mg/kg	13 days (1x / day)	Rabbit	No effect		Experimental
(stomach tube))		OECD 416	bw/day		(female)			value

zeolites

	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

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<u>piperazine</u>

	Parameter	Method	Value	Exposure time	Species	Effect	- 0	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

dibutylbis(dodecylthio)stannane

	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**

MEGAPLAST PU 25S curative

No (test)data on the mixture available

#### Chronic effects from short and long-term exposure

MEGAPLAST PU 25S 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

#### MEGAPLAST PU 25S curative

No (test)data on the mixture available

 ${\it Classification} \ is \ based \ on \ the \ relevant \ ingredients$ 

Talc (Mg3H2(SiO3)4)

	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

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	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	NOEC	EPA 660/3 - 75/009	> 680 mg/l	96 h	Pimephales promelas	Static system	Fresh water	Experimental value; 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 value
Long-term toxicity aquatic crustacea	NOEC	OECD 211	32 mg/l	21 day(s)	Daphnia magna	Semi-static system	Fresh water	Experimental value; Nominal concentration

#### piperazine

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity fishes	LC50	EU Method C.1	> 1800 mg/l	96 h	Poecilia reticulata	Semi-static system	Fresh water	Experimental value; 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 value; 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 value

dibutylbis(dodecylthio)stannane

	Parameter	Method	Value	Duration	Species	Test design	Fresh/salt water	Value determination
Acute toxicity crustacea	EC50	OECD 202	0.11 mg/l	48 h	Daphnia magna	Static system	Fresh water	Experimental value; GLP
Toxicity algae and other aquatic plants	EC50	OECD 201	≥ 1.6 mg/l	72 h	Desmodesmus subspicatus		Fresh water	Read-across; Growth rate
Long-term toxicity fish								Data waiving

#### $\underline{\textbf{Conclusion}}$

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

Talc (Mg3H2(SiO3)4)

Phototransformation air (DT50 air)

Method	Value	Conc. OH-radicals	Value determination
AOPWIN v1.92	18.602 h	1.5E6 /cm <sup>3</sup>	QSAR

#### piperazine

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 /cm³	QSAR

#### dibutylbis(dodecylthio)stannane

Biodegradation 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

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Log Kow

_ <del>_</del>					
Method	Remark	Value	Temperature	Value determination	
	Not applicable (mixture)				

#### Talc (Mg3H2(SiO3)4)

#### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF	BCFBAF v3.01	3.162 l/kg			QSAR

#### Log Kow

Method	Remark	Value	Temperature	Value determination
KOWWIN		-9.4	25 °C	QSAR

#### zeolites

#### BCF other aquatic organisms

Parameter	Method	Value	Duration	Species	Value determination
BCF		0.59 - 0.95; Fresh	28 day(s)		Experimental value
		weight			

#### Log Kow

Method	Remark	Value	Temperature	Value determination	
	Not applicable (inorganic)				

#### piperazine

#### **BCF** fishes

Parameter	Method	Value	Duration	Species	Value determination
BCF		< 3.9; Chronic		Cyprinus carpio	Literature study

#### Log Kow

Method	Remark	Value	Temperature	Value determination
OECD 107		-1.24	25 °C	Experimental value

#### dibutylbis(dodecylthio)stannane

#### Log Kow

Method	Remark	Value	Temperature	Value determination
EU Method A.8			22 °C	Experimental value

#### Conclusion

Does not contain bioaccumulative component(s)

#### 12.4. Mobility in soil

Talc (Mg3H2(SiO3)4)

#### **Percent distribution**

	Method	Fraction air	Fraction biota	Fraction	Fraction soil	Fraction water	Value determination
				sediment			
	Mackay level III	0 %	0 %	39.3 %	56 %	4.72 %	QSAR

# zeolites

#### (log) Koc

Parameter	Method	Value	Value determination
			Data waiving

#### Percent distribution

Method	Fraction air	Fraction biota	Fraction sediment	Fraction soil	Fraction water	Value determination
	0.00 %		0.31 %	59.79 %	39.9 %	Calculated value

#### piperazine

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc		2.71	Calculated value
log koc		2./1	Calculated value

#### dibutylbis(dodecylthio)stannane

#### (log) Koc

Parameter	Method	Value	Value determination
log Koc	SRC PCKOCWIN v2.0	9.588	Calculated value

### Conclusion

Contains component(s) with potential for mobility in the soil

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

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

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

#### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties

#### 12.7. Other adverse effects

#### MEGAPLAST PU 25S curative

### Greenhouse gases

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

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#### 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

<u>piperazine</u>

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

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 09\* (wastes from MFSU of adhesives and sealants (including waterproofing products): waste adhesives and sealants containing organic solvents or other hazardous substances). Depending on branch of industry and production process, also other waste codes may be applicable.

#### 13.1.2 Disposal methods

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Do not discharge into drains or the environment. Dispose of at authorized waste collection point.

#### 13.1.3 Packaging/Container

Limited quantities

#### **European Union**

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

15 01 10\* (packaging containing residues of or contaminated by dangerous substances).

# **SECTION 14: Transport information**

#### Road (ADR) 14.1. UN number Transport Not subject 14.2. UN proper shipping name 14.3. Transport hazard class(es) Hazard identification number Classification code 14.4. Packing group Packing group Labels 14.5. Environmental hazards Environmentally hazardous substance mark no 14.6. Special precautions for user Special provisions Limited quantities Rail (RID) 14.<u>1. UN number</u> 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 14.5. Environmental hazards Environmentally hazardous substance mark no 14.6. Special precautions for user Special provisions

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	d waterways (ADN)	
14.	1. UN number	loooc
1.1	UN number	9006
	2. UN proper shipping name	
14.	3. Transport hazard class(es)	9
	Classification code	M12
		IVI1Z
14.	4. Packing group	
	Packing group	
	Labels	
14.	5. Environmental hazards	
	Environmentally hazardous substance mark	no
14.	6. Special precautions for user	
	Special provisions	
	Limited quantities	
	IMDG/IMSBC)	
	1. UN number	
	Transport	Not subject
	2. UN proper shipping name	
	3. Transport hazard class(es)	
	Class	
14.	4. Packing group	
	Packing group	
	Labels	
14.	5. Environmental hazards	
	Marine pollutant	
	Environmentally hazardous substance mark	no
14.	6. Special precautions for user	
	Special provisions	
	Limited quantities	
	7. Maritime transport in bulk according to IMO instruments	
	Annex II of MARPOL 73/78	Not applicable, based on available data
	CAO-TI/IATA-DGR)	
	1. UN number	
	Transport	Not subject
	2. UN proper shipping name	
14.	3. Transport hazard class(es)	
	Class	
14.	4. Packing group	
	Packing group	
	Labels	
14.	5. Environmental hazards	
	Environmentally hazardous substance mark	no
	6. Special precautions for user	
	Special provisions	
Р	assenger and cargo transport	
	Limited quantities: maximum net quantity per packaging	

# 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
	No data available

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.

and use of certain unificious substances, mixtures and artificis				
	Designation of the substance, of the group of substances or of the mixture	Conditions of restriction		
	criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: (a) hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8	phases, for example in ornamental lamps and ashtrays, — tricks and jokes, — games for one or more participants, or any article intended to be used as such, even with		

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		1 and 2, 2.14 categories 1 and 2, 2.15 types A to F; (b) hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10; (c) hazard class 4.1; (d) hazard class 5.1.	2. Articles not complying with paragraph 1 shall not be placed on the market. 3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:  — can be used as fuel in decorative oil lamps for supply to the general public, and, — present an aspiration hazard and are labelled with H304, 4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN). 5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met: a) lamp oils, labelled with H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life- threatening lung damage"; b) grill lighter fluids, labelled with H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage"; c) lamp oils and grill lighters, labelled with H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010.
	<ul> <li>dibutylbis(dodecylthio)stannane</li> </ul>	Organostannic compounds	1. 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.  2. 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:  (a) all craft irrespective of their length intended for use in marine, coastal, estuarine and inland waterways and lakes;  (b) cages, floats, nets and any other appliances or equipment used for fish or shellfish farming;  (c) any totally or partly submerged appliance or equipment.  3. 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.  4. Tri-substituted organostannic compounds:  a) Tri-substituted organostannic compounds such as tributyltin (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.  b) Articles not complying with point (a) shall not be placed on the market after 1 July 2010, except for articles that were already in use in the Community before that date.  5. Dibutyltin (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 mixture or the article, or part thereof, is greater than the equivalent of 0,1 % by weight of tin.  b) Articles and mixtures not complying with point (a) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:  c) By way of derogation, points (a) and (b) shall not apply until 1 January 2015 to the following articles and mixtures for supply to the general public:  one-component and two-component room temperature vulcanisation sealants (RTV-1 and RTV-2 sealants) and adhesives,  paints and coatings containing DBT compounds as catalysts when
			— female hygiene products, — nappies, — two-component room temperature vulcanisation moulding kits (RTV-2 moulding kits). (b) Articles not complying with point (a) shall not be placed on the market after 1 January 2012, except for articles that were already in use in the Community before that date.
	· 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 classified due to effects only following exposure by inhalation — reproductive toxicant category 1A, 1B or 2	Mixtures for tattooing purposes are subject to the restrictions of Regulation (EU) 2020/2081
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due to effects only following exposure by inhalation – skin sensitiser category 1, 1A or 1B skin corrosive category 1, 1A, 1B or 1C or skin irritant category 2 serious eye damage category 1 or eye irritant category 2 (b) substances listed in Annex II to Regulation (EC) No 1223/2009 of the European Parliament and of the Council (c) substances listed in Annex IV to Regulation (EC) No 1223/2009 for which a condition is specified in at least one of the columns g, h and i of the table in that Annex (d) substances listed in Appendix 13 to this Annex. The ancillary requirements in paragraphs 7 and 8 of column 2 of this entry apply to all mixtures for use for tattooing purposes, whether or not they contain a substance falling within points (a) to (d) of this column of this entry.

#### **National legislation Belgium**

MEGAPLAST PU 25S curative

No data available

dibutylbis(dodecylthio)stannane

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 par contact direct que par présence de l'agent dans l'air.
Agents cancérigènes, mutagènes et reprotoxiques (Code du bien-être au travail, Livre VI, titre 2)	reprotoxique catégorie 1A ou 1B selon CLP, n.s.a.

#### **National legislation The Netherlands**

Waterbezwaarlijkheid piperazine	Z (1); Algemene Beoordelingsmethodiek (ABM)
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 MEGAPLAST PU 25S curative

No data available

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Catégorie toxique pour la	Pipérazine (poussières et vapeurs); R2
reproduction	

# Mational legislation Germany MEGAPLAST PU 25S curative

WGK	2; Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV) - 18. April 2017
Talc (Mg3H2(SiO3)4)	
TA-Luft	5.2.1
<u>zeolites</u>	
TA-Luft	5.2.1
<u>piperazine</u>	
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 Fruchtschädigung
Fruchtschädigung	kann auch bei Einhaltung des AGW und des BGW nicht ausgeschlossen werden.
Hautresorptive Stoffe	Zinnverbindungen, organische - n-Butylzinnverbindungen: Di-n-butylzinnverbindungen; H; Hautresorptiv

# National legislation Austria MEGAPLAST PU 25S curative

No data available

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<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	

#### National legislation United Kingdom

MEGAPLAST PU 25S curative

No data available

piperazine

piperuzine		
Skin Sensitisation	Piperazine; Sen	
Respiratory sensitisation	Piperazine; Sen	
dibutylbis(dodecylthio)stannane		

Tin compounds, organic, except Cyhexatin (ISO), (as Sn); Sk

#### Other relevant data

MEGAPLAST PU 25S curative

No data available

Skin absorption

Talc (Mg3H2(SiO3)4)

IARC - classification	3; Talc		
TLV - Carcinogen	Talc: Containing no asbestos fibers; A4		
	Talc: Containing asbestos fibers; A1		
<u>zeolites</u>			
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 contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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 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

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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

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