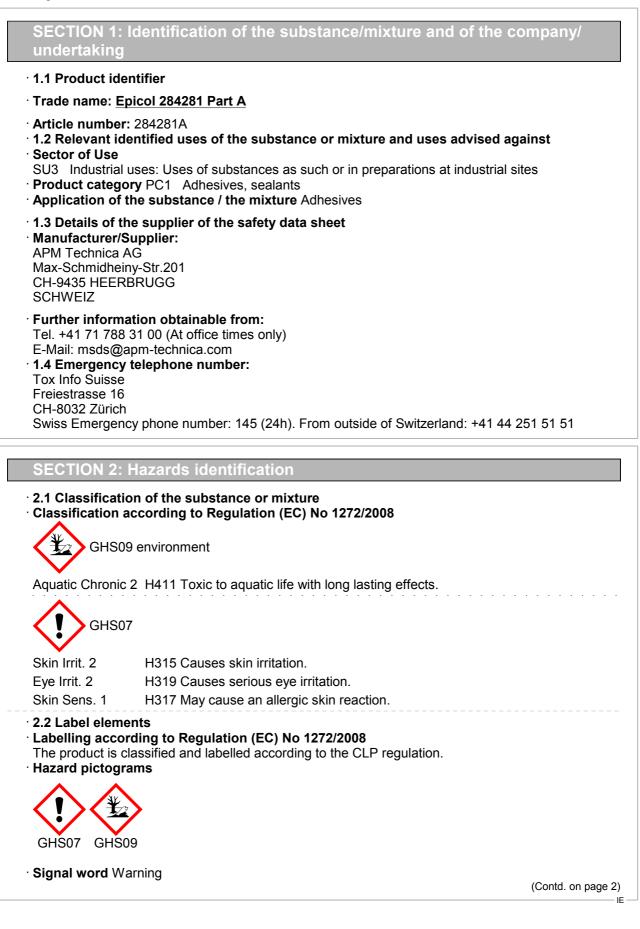


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(Contd. of page
ining components of labelling:
: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$
ents
kin irritation.
erious eye irritation.
e an allergic skin reaction.
quatic life with long lasting effects.
statements
Avoid breathing dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Wear protective gloves / eye protection / face protection.
38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.
Dispose of contents/container in accordance with local/regional/national/
international regulations.
rmation:
constituents. May produce an allergic reaction.
ckages where the contents do not exceed 125 ml
99
arning
ining components of labelling:
: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$
ents
e an allergic skin reaction.
statements
id breathing dust/fume/gas/mist/vapours/spray.
ar protective gloves / eye protection / face protection.
kin irritation or rash occurs: Get medical advice/attention.
pose of contents/container in accordance with local/regional/national/international
ulations.
ds
and vPvB assessment
able.
cable.
Composition/information on ingradiants
Composition/information on ingredients
xture of substances listed below with nonhazardous additions.

CAS: 25068-38-6 NLP: 500-033-5	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight $\leq$ 700)	>50–≤100%
	Aquatic Chronic 2, H411; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317, EUH205	
	Specific concentration limits: Eye Irrit. 2; H319: $C \ge 5 \%$	
	Skin Irrit. 2; H315: C ≥ 5 %	
		(Contd. on page 3

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CAS: 1332-58-7	Kaolin substance with a Community workplace exposure limit	(Contd. of page 2) >10–≤50%
CAS: 108-88-3 EINECS: 203-625-9	toluene ♦ Flam. Liq. 2, H225; ♦ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ♦ Skin Irrit. 2, H315; STOT SE 3, H336	≤2.5%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide line Carc. 2, H351	<1%
Additional information	tion: For the wording of the listed hazard phrases refer to section	16.

#### **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:
- Supply fresh air and to be sure call for a doctor.
- In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### **SECTION 5: Firefighting measures**

· 5.1 Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

#### **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- 6.2 Environmental precautions:
   Do not allow product to reach sewage system or any water course.
   Inform respective authorities in case of seepage into water course or sewage system.
   Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- 6.4 Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

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#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

· Information about fire - and explosion protection: No special measures required.

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

· Storage:

· Requirements to be met by storerooms and receptacles: No special requirements.

- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

#### 1332-58-7 Kaolin

OEL Long-term value: 2 mg/m<sup>3</sup>

#### 108-88-3 toluene

OEL Short-term value: 384 mg/m<sup>3</sup>, 100 ppm Long-term value: 192 mg/m<sup>3</sup>, 50 ppm Sk, IOELV

• Additional information: The lists valid during the making were used as basis.

#### · 8.2 Exposure controls

- Appropriate engineering controls No further data; see section 7.
- Individual protection measures, such as personal protective equipment

#### General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

#### Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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# · Eye/face protection



Tightly sealed goggles

· Body protection: Protective work clothing

# SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemi	ical properties
General Information	
· Physical state	Fluid
· Colour:	Cream coloured
· Odour:	Characteristic
Odour threshold:	Not determined.
• Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and	endetermined.
boiling range	>200 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>200 °C
• Decomposition temperature:	Not determined.
· pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic at 20 °C:	75,000–150,000 mPas
Solubility	· · · · · · · · · · · · · · · · · · ·
water:	Not miscible or difficult to mix.
<ul> <li>Partition coefficient n-octanol/water (log</li> </ul>	
value)	Not determined.
· Vapour pressure:	Not determined.
<ul> <li>Density and/or relative density</li> </ul>	
· Density at 20 °C:	1.35 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	
· Appearance:	
· Form:	Pasty
· Important information on protection of healt	
and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Organic solvents:	<1.0 %
•	<1.00 %
· VOC (EC) · Solids content:	0.0 %
	0.0 /0
Change in condition	Not determined
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
Flammable gases	Void
	(Contd. on page 6)
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· Aerosols	Void	
· Oxidising gases	Void	
· Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
• Self-reactive substances and mixtures	Void	
· Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** Amines. Strong Acid. Strong oxidizing agents.
- 10.6 Hazardous decomposition products:

Aldehyde

Carbon monoxide and carbon dioxide Hydrocarbons

# **SECTION 11: Toxicological information**

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

· Acute toxicity Based on available data, the classification criteria are not met.

# · LD/LC50 values relevant for classification:

108-88-3 1	toluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)
Inhalative	LC50/4 h	5,320 mg/l (mouse)
13463-67-	7 titanium	ı dioxide
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
Serious e	ye damag	ation Causes skin irritation. e/irritation Causes serious eye irritation.
		sensitisation May cause an allergic skin reaction.
	-	icity Based on available data, the classification criteria are not met.
· Carcinog	enicity Ba	sed on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met. • **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

• Aspiration hazard Based on available data, the classification criteria are not met.

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<sup>, , )</sup> \_\_ 15

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#### · 11.2 Information on other hazards

#### Endocrine disrupting properties

#### None of the ingredients is listed.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · **vPvB:** Not applicable.

#### 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Toxic for fish
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

•	•
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

#### · Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	ation
<ul> <li>· 14.1 UN number or ID number</li> <li>· ADR, IMDG, IATA</li> </ul>	UN3082
<ul> <li>· 14.2 UN proper shipping name</li> <li>· ADR</li> <li>· IMDG</li> </ul>	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number
	(Contd. on page 8

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	(Contd. of page
· · IATA	average molecular weight ≤ 700)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700))
· 14.3 Transport hazard class(es)	
Class	9 Miscellaneous dangerous substances and articles.
	9
<ul> <li>14.4 Packing group</li> <li>ADR, IMDG, IATA</li> </ul>	111
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> <li>Special marking (IATA):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<sup>·</sup> 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
<ul> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	
<ul> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 (-)
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (REACTION PRODUCT: BISPHENOL-A-(EPICHLORHYDRIN EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT ≤ 700)), 9, III

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SECTION 15: Regulatory information	
<ul> <li>15.1 Safety, health and environmental regula mixture</li> </ul>	tions/legislation specific for the substance or
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances - ANNEX I Note</li> <li>Seveso category E2 Hazardous to the Aquatic</li> <li>Qualifying quantity (tonnes) for the application</li> <li>Qualifying quantity (tonnes) for the application</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVI</li> </ul>	Environment on of lower-tier requirements 200 t on of upper-tier requirements 500 t I Conditions of restriction: 3, 48
<ul> <li>DIRECTIVE 2011/65/EU on the restriction of t electrical and electronic equipment – Annex</li> </ul>	
None of the ingredients is listed.	
<ul> <li>REGULATION (EU) 2019/1148</li> <li>Annex I - RESTRICTED EXPLOSIVES PRECU licensing under Article 5(3))</li> </ul>	RSORS (Upper limit value for the purpose of
None of the ingredients is listed.	
· Annex II - REPORTABLE EXPLOSIVES PREC	URSORS
None of the ingredients is listed.	
Regulation (EC) No 273/2004 on drug precurs	
108-88-3 toluene	3
Regulation (EC) No 111/2005 laying down rul Community and third countries in drug precu	ursors
108-88-3 toluene	3
• 15.2 Chemical safety assessment: A Chemica	al Safety Assessment has not been carried out.
SECTION 16: Other information	
• <b>Relevant phrases</b> H225 Highly flammable liquid and vapour.	
<ul> <li>H304 May be fatal if swallowed and enters ai</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H361d Suspected of damaging the unborn chi</li> <li>H373 May cause damage to organs through</li> <li>H411 Toxic to aquatic life with long lasting ef</li> <li>EUH205 Contains epoxy constituents. May prod</li> </ul>	ld. prolonged or repeated exposure. fects.
<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H361d Suspected of damaging the unborn chi</li> <li>H373 May cause damage to organs through</li> </ul>	ld. prolonged or repeated exposure. fects. uce an allergic reaction.
<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H361d Suspected of damaging the unborn chi</li> <li>H373 May cause damage to organs through</li> <li>H411 Toxic to aquatic life with long lasting ef</li> <li>EUH205 Contains epoxy constituents. May prod</li> </ul>	ld. prolonged or repeated exposure. fects. uce an allergic reaction.
<ul> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H361d Suspected of damaging the unborn chi</li> <li>H373 May cause damage to organs through</li> <li>H411 Toxic to aquatic life with long lasting ef</li> <li>EUH205 Contains epoxy constituents. May prod</li> <li>Classification according to Regulation (EC) I</li> <li>Skin corrosion/irritation</li> <li>Serious eye damage/irritation</li> <li>Skin sensitisation</li> <li>Hazardous to the aquatic environment - long-</li> </ul>	ld. prolonged or repeated exposure. fects. uce an allergic reaction. <b>No 1272/2008</b> The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No

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· Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agre	ement Concerning
the International Carriage of Dangerous Goods by Road)	-
IMDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 2: Flammable liquids – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
Repr. 2: Reproductive toxicity – Category 2	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Asp. Tox. 1: Aspiration hazard – Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
* Data compared to the previous version altered.	

4

# Safety data sheet according to 1907/2006/EC, Article 31



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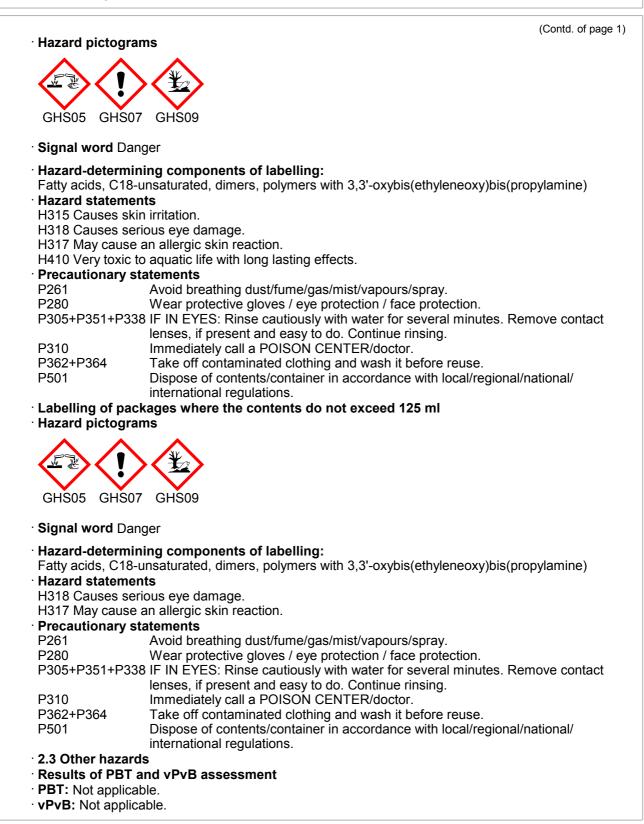
SECTION 1: undertaking	Identification of the substance/mixture and of the company/
· 1.1 Product ide	entifier
· Trade name: <u>E</u>	picol 284281 Part B
<ul> <li>Sector of Use</li> <li>SU3 Industrial</li> <li>Product categories</li> </ul>	r: 284281B lentified uses of the substance or mixture and uses advised against uses: Uses of substances as such or in preparations at industrial sites ory PC1 Adhesives, sealants the substance / the mixture Adhesives
<b>1.3 Details of t</b> Manufacturer/ APM Technica Max-Schmidhe CH-9435 HEEF SCHWEIZ	AG ny-Str.201
Tel. +41 71 788 E-Mail: msds@	
	cy phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51
Swiss Emerger	cy phone number: 145 (24h). From outside of Switzerland: +41 44 251 51 51 Hazards identification
Swiss Emerger SECTION 2: · 2.1 Classificat	
Swiss Emerger SECTION 2: 2.1 Classificati Classification	Hazards identification
Swiss Emerger SECTION 2: • 2.1 Classification • Classification GHS0	Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008
Swiss Emerger SECTION 2: 2.1 Classification Classification GHSC Eye Dam. 1	Hazards identification on of the substance or mixture according to Regulation (EC) No 1272/2008
Swiss Emerger SECTION 2: 2.1 Classification Classification GHSC Eye Dam. 1	Hazards identification fon of the substance or mixture according to Regulation (EC) No 1272/2008 05 corrosion H318 Causes serious eye damage.
Swiss Emerger SECTION 2: 2.1 Classification Classification GHSC Eye Dam. 1 Classification GHSC Aquatic Acute 1	Hazards identification fon of the substance or mixture according to Regulation (EC) No 1272/2008 05 corrosion H318 Causes serious eye damage.
Swiss Emerger SECTION 2: 2.1 Classification Classification GHSC Eye Dam. 1 GHSC Aquatic Acute 1	Hazards identification fon of the substance or mixture according to Regulation (EC) No 1272/2008 95 corrosion H318 Causes serious eye damage. 99 environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
Swiss Emerger	Hazards identification fon of the substance or mixture according to Regulation (EC) No 1272/2008 95 corrosion H318 Causes serious eye damage. 99 environment H400 Very toxic to aquatic life. 1 H410 Very toxic to aquatic life with long lasting effects.
Swiss Emerger	Hazards identification         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the substance or mixture according to Regulation (EC) No 1272/2008         ion of the sub
Swiss Emerger	Hazards identification         ion of the substance or mixture according to Regulation (EC) No 1272/2008         i5 corrosion         H318 Causes serious eye damage.         9 environment         H400 Very toxic to aquatic life.         1 H410 Very toxic to aquatic life with long lasting effects.         7         H315 Causes skin irritation.         H317 May cause an allergic skin reaction.
Swiss Emerger	Hazards identification         ion of the substance or mixture         according to Regulation (EC) No 1272/2008         95 corrosion         H318 Causes serious eye damage.         99 environment         H400 Very toxic to aquatic life.         11 H410 Very toxic to aquatic life with long lasting effects.         17         H315 Causes skin irritation.         H317 May cause an allergic skin reaction.

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#### SECTION 3: Composition/information on ingredients

#### · 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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IF

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nts:	
Fatty acids, C18-unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine)	>25–≤100%
Eye Dam. 1, H318;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Irrit. 2, H315; Skin Sens. 1, H317	
Kaolin substance with a Community workplace exposure limit	>25–≤100%
Carbon black ♦ Self-heat. 2, H252	≤2.5%
titanium dioxide	<1%
	<ul> <li>oxybis(ethyleneoxy)bis(propylamine)</li> <li>♦ Eye Dam. 1, H318; ♦ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ↑ Skin Irrit. 2, H315; Skin Sens. 1, H317</li> <li>Kaolin substance with a Community workplace exposure limit</li> <li>Carbon black</li> <li>♦ Self-heat. 2, H252</li> <li>titanium dioxide</li> </ul>

#### **SECTION 4: First aid measures**

#### · 4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

## **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
6.2 Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent. Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
6.4 Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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#### **SECTION 7: Handling and storage**

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

#### 1332-58-7 Kaolin

OEL Long-term value: 2 mg/m<sup>3</sup>

#### 1333-86-4 Carbon black

- OEL Long-term value: 3\* mg/m<sup>3</sup>
  - \*inhalable fraction

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
- Avoid contact with the skin.
- Avoid contact with the eyes and skin.
- Respiratory protection:
- In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

#### Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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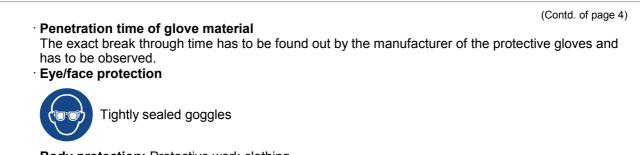
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• Body protection: Protective work clothing

#### SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid · Colour: Dark grey · Odour: Characteristic • Odour threshold: Not determined. • Melting point/freezing point: Undetermined. · Boiling point or initial boiling point and boiling range >152 °C · Flammability Not applicable. Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. >94 °C · Flash point: · Decomposition temperature: Not determined. · pH Not determined. · Viscosity: · Kinematic viscosity Not determined. · Dynamic at 20 °C: 40,000-80,000 mPas · Solubility · water: Not miscible or difficult to mix. Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined. Density and/or relative density · Density at 20 °C: 1.24-1.32 g/cm<sup>3</sup> Relative density Not determined. · Vapour density Not determined. • 9.2 Other information · Appearance: · Form: Pasty · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. • Explosive properties: Product does not present an explosion hazard. · Solvent content: · VOC (EC) 0.00 % · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes Explosives Void (Contd. on page 6) IE

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Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit		
flammable gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

#### SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

		evant for classification:
1333-86-4	Carbon b	lack
Oral	LD50	10,000 mg/kg (rat)
13463-67-	7 titanium	n dioxide
Oral	LD50	>20,000 mg/kg (rat)
Dermal	LD50	>10,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.82 mg/l (rat)
Serious e	ye damag	ation Causes skin irritation. e/irritation Causes serious eye damage.
Germ cell	mutagen	<b>sensitisation</b> May cause an allergic skin reaction. <b>icity</b> Based on available data, the classification criteria are not met.
-	-	sed on available data, the classification criteria are not met.
•		ity Based on available data, the classification criteria are not met.
		ure Based on available data, the classification criteria are not met.
STOT-rep	eated exp	<b>osure</b> Based on available data, the classification criteria are not met.
Aspiratio	n hazard E	Based on available data, the classification criteria are not met.
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### · 11.2 Information on other hazards

### · Endocrine disrupting properties

#### None of the ingredients is listed.

### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Remark: Very toxic for fish
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms

#### **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

#### · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
HP4	Irritant - skin irritation and eye damage
HP13	Sensitising
HP14	Ecotoxic

#### · Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

# SECTION 14: Transport information • 14.1 UN number or ID number • ADR, IMDG, IATA UN3082 • 14.2 UN proper shipping name • ADR 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18unsaturated, dimers, polymers with 3,3'oxybis(ethyleneoxy)bis(propylamine)) • IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18unsaturated, dimers, polymers with 3,3'oxybis(ethyleneoxy)bis(propylamine)) • IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18-URARDOUS)

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· IATA	unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine)), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fatty acids, C18- unsaturated, dimers, polymers with 3,3'- oxybis(ethyleneoxy)bis(propylamine))
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles. 9
· 14.4 Packing group	
· ADR, IMDG, IATA	III
<ul> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (ADR):</li> <li>· Special marking (IATA):</li> </ul>	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>· 14.6 Special precautions for user</li> <li>· Hazard identification number (Kemler code):</li> <li>· EMS Number:</li> <li>· Stowage Category</li> </ul>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
<ul> <li>14.7 Maritime transport in bulk according to IMO instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	3 (-)
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FATTY ACIDS, C18-UNSATURATED, DIMERS, POLYMERS WITH 3,3'-OXYBIS(ETHYLENEOXY) BIS(PROPYLAMINE)), 9, III

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SECTION 15: Regulatory information	
<ul> <li>15.1 Safety, health and environmental regula mixture</li> </ul>	tions/legislation specific for the substance or
<ul> <li>Directive 2012/18/EU</li> <li>Named dangerous substances - ANNEX I Note</li> <li>Seveso category E1 Hazardous to the Aquatic</li> <li>Qualifying quantity (tonnes) for the applicati</li> <li>Qualifying quantity (tonnes) for the applicati</li> <li>REGULATION (EC) No 1907/2006 ANNEX XVI</li> </ul>	Environment on of lower-tier requirements 100 t on of upper-tier requirements 200 t
<ul> <li>DIRECTIVE 2011/65/EU on the restriction of t electrical and electronic equipment – Annex</li> </ul>	
None of the ingredients is listed.	
REGULATION (EU) 2019/1148	
<ul> <li>Annex I - RESTRICTED EXPLOSIVES PRECU licensing under Article 5(3))</li> </ul>	RSORS (Upper limit value for the purpose of
None of the ingredients is listed.	
Annex II - REPORTABLE EXPLOSIVES PREC	URSORS
None of the ingredients is listed.	
Regulation (EC) No 273/2004 on drug precurs	sors
None of the ingredients is listed.	
<ul> <li>Regulation (EC) No 111/2005 laying down rul Community and third countries in drug prece</li> </ul>	
None of the ingredients is listed.	
• 15.2 Chemical safety assessment: A Chemica	al Safety Assessment has not been carried out.
	edge. However, this shall not constitute a guarantee
for any specific product features and shall not es This Safety Data Sheets is in compliance with R amended by Regulation (EU) 2020/878.	
<ul> <li>Relevant phrases</li> <li>H252 Self-heating in large quantities; may catch</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H351 Suspected of causing cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting e</li> </ul>	effects.
<ul> <li>H252 Self-heating in large quantities; may catch H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H351 Suspected of causing cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting e</li> <li>Classification according to Regulation (EC) I</li> </ul>	effects. No 1272/2008
<ul> <li>H252 Self-heating in large quantities; may catch</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H351 Suspected of causing cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting e</li> </ul>	effects.
<ul> <li>H252 Self-heating in large quantities; may catch H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H351 Suspected of causing cancer.</li> <li>H400 Very toxic to aquatic life.</li> <li>H410 Very toxic to aquatic life with long lasting e</li> <li>Classification according to Regulation (EC) I</li> <li>Skin corrosion/irritation</li> <li>Serious eye damage/irritation</li> <li>Skin sensitisation</li> <li>Hazardous to the aquatic environment - short-term (acute) aquatic hazard</li> <li>Hazardous to the aquatic environment - long-</li> </ul>	effects. No 1272/2008 The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No

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Abbreviations and acronyms:	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Conc the International Carriage of Dangerous Goods by Road)	erning
INDG: International Maritime Code for Dangerous Goods	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
VOC: Volatile Organic Compounds (USA, EU)	
_C50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Self-heat. 2: Self-heating substances and mixtures – Category 2	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
Carc. 2: Carcinogenicity – Category 2	
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1	
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1	
* Data compared to the previous version altered.	