

## Safety Data Sheet

in accordance with HSNO

Printing date: 11.06.2020

Version no. 1

Revision date: 11.06.2020

### \* 1 Identification of the substance or mixture and of the supplier

· **Product identifier**

· **Trade name: EN 4600 SURFACER GREY**

· **Article number:** 1018

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

· **Product category** PC9b Fillers, putties, plasters, modelling clay

· **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· **Environmental release category** ERC2 Formulation into mixture

· **Article category** AC1 Vehicles

· **Application of the substance / the mixture** Surface protection

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

EN Chemicals S.A.

57 009 Kalochori

Thessalonikil, GREECE

T: +30 2310 755 428

F: +30 2310 755 428

info@enchemicals.com

www.enchemicals.com

· **Further information obtainable from:**

Wyatt Machine Tools (Rupes) NZ Limited

Address: 388 Church Street, Penrose, Auckland

Ph (09) 525 1000; Fax (09) 525 1009

· **Emergency telephone number:** NZ Emergency 0800 992 881 (0800WYATT1)

### 2 Hazards identification

· **Classification of the substance or mixture**



flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



health hazard

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Repr. 1A H360 May damage fertility or the unborn child.  
 STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



Skin Irrit. 2 H315 Causes skin irritation.  
 Eye Irrit. 2A H319 Causes serious eye irritation.  
 STOT SE 3 H335 May cause respiratory irritation.  
 Acute Tox. 5 H333 May be harmful if inhaled.  
 Aquatic Acute 3 H402 Harmful to aquatic life.  
 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Additional information:**

- 6.9B Substances that are harmful to human target organs or systems
- 6.1E Substances that are acutely toxic – May be harmful, aspiration hazard
- 6.3A Substances that are irritating to the skin
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
- 9.1C Substances that are harmful in the aquatic environment
- 8.3A Substances that are corrosive to ocular tissue
- 6.3A Substances that are irritating to the skin
- 6.9 (Respiratory tract irritant)
- 9.1D Substances that are slightly harmful to the aquatic environment or are otherwise designed for biocidal action
- 6.4A Substances that are irritating to the eye

· **Label elements**

· **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS02 GHS07 GHS08

· **Signal word** Danger

· **Hazard-determining components of labelling:**

- xylene
- toluene
- Solvent naphtha (petroleum), light arom.

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2-butoxyethanol

#### · Hazard statements

- H225 Highly flammable liquid and vapour.
- H333 May be harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Other hazards

#### · Results of PBT and vPvB assessment



- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/Information on ingredients

#### · Chemical characterisation: Mixtures

· **Description:** Mixture of hazardous substances

#### · Dangerous components:

CAS: 1330-20-7	xylene	20-25%
EINECS: 215-535-7	 Flam. Liq. 3, H226	
Index number: 601-022-00-9	 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; STOT SE 3, H335	
RTECS: ZE 2100000	Acute Tox. 5, H303	

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## Trade name: EN 4600 SURFACER GREY

CAS: 471-34-1 EINECS: 207-439-9 RTECS: EV 9580000	calcium carbonate	10-<15%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 RTECS: XS 5250000	toluene  Flam. Liq. 2, H225  Repr. 1A, H360; STOT RE 2, H373; Asp. Tox. 1, H304  Skin Irrit. 2, H315 Acute Tox. 5, H303	10-<15%
CAS: 110-19-0 EINECS: 203-745-1 Index number: 607-026-00-7	isobutyl acetate  Flam. Liq. 2, H225	5-<10%
CAS: 64742-95-6 EINECS: 265-199-0 Index number: 649-356-00-4	Solvent naphtha (petroleum), light arom.  Flam. Liq. 3, H226  Asp. Tox. 1, H304  Aquatic Chronic 2, H411  Acute Tox. 4, H332; STOT SE 3, H335-H336 Acute Tox. 5, H313; Aquatic Acute 2, H401	5-<10%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 RTECS: AF 7350000	n-butyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336 Acute Tox. 5, H333	5-<10%
CAS: 9004-70-0 Index number: 603-037-01-3	cellulose nitrate, nitrogen content <12.6%  STOT RE 2, H373  STOT SE 3, H335	2.5-<5%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Acute Tox. 5, H333	2.5-<5%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 RTECS: KJ 8575000	2-butoxyethanol  Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	<2.5%

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### Trade name: EN 4600 SURFACER GREY

CAS: 78-83-1	butanol	≥1<2.5%
EINECS: 201-148-0	 Flam. Liq. 3, H226	
Index number: 603-108-00-1	 Eye Dam. 1, H318	
RTECS: NP 9625000	 Skin Irrit. 2, H315; STOT SE 3, H335-H336	
	Acute Tox. 5, H303; Acute Tox. 5, H313	
CAS: 78-93-3	butanone	<2.5%
EINECS: 201-159-0	 Flam. Liq. 2, H225	
Index number: 606-002-00-3	 Eye Irrit. 2A, H319; STOT SE 3, H335-H336	
RTECS: EL 6475000	Acute Tox. 5, H303; Acute Tox. 5, H313	
CAS: 117-84-0	dioctyl phthalate	<2.5%
EINECS: 204-214-7	 Repr. 2, H361	
RTECS: TI 1925000		

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

## 4 First aid measures

### · Description of first aid measures

#### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** 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. Remove contact lenses in case of eye contamination and irrigate copiously with clean water for at least 15 minutes trying to hold the eye lids open.

· **After swallowing:** If symptoms persist consult doctor.

#### · Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## \* 5 Fire fighting measures

### · Extinguishing media

· **Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **Special hazards arising from the substance or mixture** During heating or in case of fire poisonous gases are produced.

### · Advice for firefighters

Firefighters should always use protective equipment and breathing apparatus when handling fire coming from these products

· **Special protective equipment and fire fighting procedures:** Mouth respiratory protective device.

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#### · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.  
HAZ CHEM CODE: 3YE

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## \* 6 Accidental release measures

#### · Personal precautions, protective equipment and emergency procedures

Mount respiratory protective device.  
Wear protective equipment. Keep unprotected persons away.

#### · 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.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

#### · 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 item 13.  
Ensure adequate ventilation.

#### · 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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## 7 Handling and storage

#### · Handling:

##### · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.

##### · Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.

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

##### · Storage:

· Requirements to be met by storerooms and receptacles: Store in a cool location.  
· Information about storage in one common storage facility: Not required.

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**· Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**· Specific end use(s)** No further relevant information available.

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## 8 Exposure controls/personal protection

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

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**1330-20-7 xylene**WES (New Zealand) Long-term value: 217 mg/m<sup>3</sup>, 50 ppmIOELV (EU) Short-term value: 442 mg/m<sup>3</sup>, 100 ppmLong-term value: 221 mg/m<sup>3</sup>, 50 ppm

Skin

**471-34-1 calcium carbonate**WES (New Zealand) Long-term value: 10 mg/m<sup>3</sup>**108-88-3 toluene**WES (New Zealand) Long-term value: 188 mg/m<sup>3</sup>, 50 ppm

skin

IOELV (EU) Short-term value: 384 mg/m<sup>3</sup>, 100 ppmLong-term value: 192 mg/m<sup>3</sup>, 50 ppm

Skin

**110-19-0 isobutyl acetate**WES (New Zealand) Long-term value: 713 mg/m<sup>3</sup>, 150 ppmIOELV (EU) Short-term value: 723 mg/m<sup>3</sup>, 150 ppmLong-term value: 241 mg/m<sup>3</sup>, 50 ppm**123-86-4 n-butyl acetate**WES (New Zealand) Short-term value: 950 mg/m<sup>3</sup>, 200 ppmLong-term value: 713 mg/m<sup>3</sup>, 150 ppmIOELV (EU) Short-term value: 723 mg/m<sup>3</sup>, 150 ppmLong-term value: 241 mg/m<sup>3</sup>, 50 ppm

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**Trade name: EN 4600 SURFACER GREY****111-76-2 2-butoxyethanol**

WES (New Zealand) Long-term value: 121 mg/m<sup>3</sup>, 25 ppm  
skin

IOELV (EU) Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 98 mg/m<sup>3</sup>, 20 ppm  
Skin

**78-83-1 butanol**

WES (New Zealand) Long-term value: 152 mg/m<sup>3</sup>, 50 ppm

**78-93-3 butanone**

WES (New Zealand) Short-term value: 890 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 445 mg/m<sup>3</sup>, 150 ppm  
bio

IOELV (EU) Short-term value: 900 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

**Regulatory information**

WES (New Zealand): Workplace Exposure Standards and Biological Exposure Indices

IOELV (EU): (EU) 2019/1831

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

**Exposure controls****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.

Store protective clothing separately.

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.

**Protection of hands:**

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.

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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.

· **For the permanent contact gloves made of the following materials are suitable:** Fluorocarbon rubber (Viton)

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Rubber gloves

· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Protective work clothing

\* **9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Colour:** Dark grey

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/freezing point:** Undetermined.

· **Initial boiling point and boiling range:** 110-111 °C

· **Flash point:** < 23 °C

· **Flammability (solid, gas):** Not applicable.

· **Autoignition temperature:** 370 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

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· <b>Explosive properties:</b>	Risk of explosion by shock, friction, fire or other sources of ignition.
· <b>Explosion limits:</b>	
<b>Lower:</b>	1.1 Vol %
<b>Upper:</b>	7 Vol %
· <b>Vapour pressure at 20 °C:</b>	29 hPa
· <b>Density at 20 °C:</b>	1.206 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Fully miscible.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	54.6 %
<b>VOC (EC)</b>	658.4 g/l
<b>Solids content (volume):</b>	44.1 %
· <b>Other information</b>	No further relevant information available.

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## 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

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### 11 Toxicological information

- Information on toxicological effects
- Acute toxicity
- LD/LC50 values relevant for classification:

#### ATE (Acute Toxicity Estimates)

Oral LD50 10.563 mg/kg (rat)

Dermal LD50 &gt;5.584 mg/kg

Inhalative LC50/4 h &gt;30.4 mg/l

#### 1330-20-7 xylene

Oral LD50 4,300 mg/kg (rat)

Dermal LD50 2,000 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

#### 471-34-1 calcium carbonate

Oral LD50 6,450 mg/kg (rat)

#### 108-88-3 toluene

Oral LD50 5,000 mg/kg (rat)

Dermal LD50 (static) 12,124 mg/kg (rabbit)

Inhalative LC50/4 h 5,320 mg/l (mouse)

#### 110-19-0 isobutyl acetate

Oral LD50 13,400 mg/kg (rat)

#### 64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 &gt;6,800 mg/kg (rat)

Dermal LD50 &gt;3,400 mg/kg (rab)

Inhalative LC50/4 h &gt;10.2 mg/l (rat)

#### 123-86-4 n-butyl acetate

Oral LD50 13,100 mg/kg (rat)

Dermal LD50 &gt;5,000 mg/kg (rabbit)

Inhalative LC50/4 h &gt;21 mg/l (rat)

#### 13463-67-7 titanium dioxide

Oral LD50 &gt;20,000 mg/kg (rat)

Dermal LD50 &gt;10,000 mg/kg (rabbit)

Inhalative LC50/4 h &gt;6.82 mg/l (rat)

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**Trade name: EN 4600 SURFACER GREY**

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**111-76-2 2-butoxyethanol**

Oral LD50 1,480 mg/kg (rat)

Dermal LD50 400 mg/kg (rab)

Inhalative LC50/4 h 11 mg/l (ATE)

**78-83-1 butanol**

Oral LD50 2,460 mg/kg (rat)

Dermal LD50 3,400 mg/kg (rabbit)

**78-93-3 butanone**

Oral LD50 3,300 mg/kg (rat)

Dermal LD50 5,000 mg/kg (rabbit)

**· Primary irritant effect:****· Skin corrosion/irritation** Irritant to skin and mucous membranes.**· Serious eye damage/irritation** Irritating effect.**· Respiratory or skin sensitisation** Sensitising effect through inhalation is possible by prolonged exposure.**· Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

**· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Repr. 1A

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**12 Ecological information****· Toxicity****· Aquatic toxicity:**

This product is not toxic for the aquatic life. Nevertheless do not dispose the product or any cleaning solvents used along with this product into the sea

**· Persistence and degradability**

This product contains polyesteric molecules and organic solvents and is not known to be bioaccumulative. It can be considered as biodegradable in small quantities. In case of disposal, it should be treated as a hazardous material and should be disposed accordingly. Do not just throw it away

**· Behaviour in environmental systems:****· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** No further relevant information available.**· Ecotoxicological effects:****· Remark:** Harmful to fish

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· **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.

Harmful to aquatic organisms

· **Results of PBT and vPvB assessment**

· **PBT:** This product contains no substance that is considered to be persistent, bioaccumulating or non toxic (PBT).

· **vPvB:** This mixture contains no substance that is considered to be very persistent or very bioaccumulating (vPvB).

· **Other adverse effects** No further relevant information available.

**\*13 Disposal considerations**

· **Waste treatment methods**

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

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**14 Transport information**

· UN-Number

· ADR, IMDG, IATA

UN1263

· UN proper shipping name

· ADR

UN1263 PAINT, special provision 640D

· IMDG, IATA

PAINT

· Transport hazard class(es)

· ADR



· Class

3 (F1) Flammable liquids.

· Label

3

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· IMDG, IATA



· Class	3 Flammable liquids.
· Label	3
· Packing group	
· ADR, IMDG, IATA	II
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Hazard identification number (Kemler code):	33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
· Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.

· Transport/Additional information:

· ADR	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· Transport category	2
· Tunnel restriction code	D/E

· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml

· IATA	
· Remarks:	HAZ CHEM CODE: 3YE
· UN "Model Regulation":	UN 1263 PAINT, SPECIAL PROVISION 640D, 3, II

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## 15 Regulatory information

- 3YE
- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

None of the ingredients is listed.

- **New Zealand Inventory of Chemicals**

All ingredients are listed.

- **HSNO Approval numbers**

HSNO Approval number      HSR 002662  
 Group standard name      Surface Coatings and Colourants (Flammable) Group Standard 2006  
 HSNO Hazard classification    Refer to section 2

1330-20-7 xylene: HSR000983  
 471-34-1 calcium carbonate: HSR006678  
 108-88-3 toluene: HSR001227  
 110-19-0 isobutyl acetate: HSR001092  
 64742-95-6 Solvent naphtha (petroleum), light arom.: HSR001503  
 123-86-4 n-butyl acetate: HSR001091  
 9004-70-0 cellulose nitrate, nitrogen content <12.6%: HSR001492  
 111-76-2 2-butoxyethanol: HSR001154  
 78-83-1 butanol: HSR001097  
 78-93-3 butanone: HSR001190

- **GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).

- **Hazard pictograms**



GHS02    GHS07    GHS08

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
 xylene  
 toluene  
 Solvent naphtha (petroleum), light arom.  
 2-butoxyethanol
- **Hazard statements**  
 H225 Highly flammable liquid and vapour.

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- H333 May be harmful if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H360 May damage fertility or the unborn child.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H412 Harmful to aquatic life with long lasting effects.

**· Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
Continue rinsing.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· Seveso category** P5c FLAMMABLE LIQUIDS**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**· National regulations:****· Additional classification according to Decree on Hazardous Materials, Annex II:**

Carcinogenic hazardous material group III (dangerous).

**· Chemical safety assessment:** A Chemical Safety Assessment has been carried out.

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**16 Other information**

This information is based on our current knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H227 Combustible liquid.
- H302 Harmful if swallowed.
- H303 May be harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H313 May be harmful in contact with skin.
- H315 Causes skin irritation.

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- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H333 May be harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H360 May damage fertility or the unborn child.
- H361 Suspected of damaging fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H401 Toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.

#### · Contact:

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#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

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

Flam. Liq. 3: Flammable liquids – Category 3

Flam. Liq. 4: Flammable liquids – Category 4

Acute Tox. 5: Acute toxicity - oral – Category 5

Acute Tox. 4: Acute toxicity - dermal – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Repr. 1A: Reproductive toxicity – Category 1A

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

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Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard – Category 2

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· \* Data compared to the previous version altered.

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### Annex: Exposure scenario 1

- **Short title of the exposure scenario**
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC9b Fillers, putties, plasters, modelling clay
- **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- **Article category** AC1 Vehicles
- **Environmental release category** ERC2 Formulation into mixture
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** According to directions for use.
- **Duration and frequency** Frequency of use:
- **Physical parameters**  
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** Use only on hard ground.
- **Other operational conditions affecting worker exposure**  
Avoid contact with the skin.  
Do not breathe gas/vapour/aerosol.  
Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.  
Avoid contact with eyes.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- **Technical protective measures**  
Provide explosion-proof electrical equipment.  
Use product only in enclosed systems.  
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.

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Pregnant women should strictly avoid inhalation or skin contact.

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.

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

Avoid contact with the eyes.

Tightly sealed goggles

#### · **Measures for consumer protection**

Ensure adequate labelling.

Observe consumer information and advice on safe use.

#### · **Environmental protection measures**

##### · **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

Do not allow to reach sewage system.

##### · **Soil**

Prevent contamination of soil.

The product is only processed over the concrete collecting basin.

##### · **Disposal measures** Ensure that waste is collected and contained.

##### · **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

##### · **Waste type** Partially emptied and uncleaned packaging

##### · **Exposure estimation**

##### · **Consumer** This product is to be used by professional technicians only.

##### · **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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#### Annex: Exposure scenario 2

##### · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

##### · Conditions of use According to directions for use.

##### · Duration and frequency Frequency of use:

##### · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

##### · Physical state Fluid

##### · Concentration of the substance in the mixture Raw material.

##### · Other operational conditions

##### · Other operational conditions affecting environmental exposure No special measures required.

##### · Other operational conditions affecting worker exposure

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

##### · Other operational conditions affecting consumer exposure No special measures required.

##### · Other operational conditions affecting consumer exposure during the use of the product Not applicable.

##### · Risk management measures

##### · Worker protection

##### · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

##### · Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

##### · Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Pregnant women should strictly avoid inhalation or skin contact.

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

##### · Measures for consumer protection

Ensure adequate labelling.

Observe consumer information and advice on safe use.

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#### · Environmental protection measures

##### · Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

· **Soil** The product is only processed over the concrete collecting basin.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

#### · Exposure estimation

##### · Consumer

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

#### · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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#### Annex: Exposure scenario 3

##### · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

##### · Conditions of use According to directions for use.

##### · Duration and frequency Frequency of use:

##### · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

##### · Physical state Fluid

##### · Concentration of the substance in the mixture Raw material.

##### · Other operational conditions

##### · Other operational conditions affecting environmental exposure No special measures required.

##### · Other operational conditions affecting worker exposure

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

##### · Other operational conditions affecting consumer exposure No special measures required.

##### · Other operational conditions affecting consumer exposure during the use of the product Not applicable.

##### · Risk management measures

##### · Worker protection

##### · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

##### · Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

##### · Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

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.

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

##### · Measures for consumer protection

Ensure adequate labelling.

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Observe consumer information and advice on safe use.

#### · **Environmental protection measures**

- **Water**  
Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.
- **Soil** The product is only processed over the concrete collecting basin.
- **Disposal measures** Ensure that waste is collected and contained.
- **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste type** Partially emptied and uncleaned packaging

#### · **Exposure estimation**

##### · **Consumer**

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

##### · **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.



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### Annex: Exposure scenario 4

- **Short title of the exposure scenario**
- **Sector of Use** SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
- **Product category** PC9a Coatings and paints, thinners, paint removers
- **Process category** PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
- **Article category** AC1 Vehicles
- **Environmental release category** ERC2 Formulation into mixture
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** According to directions for use.
- **Duration and frequency** Frequency of use:
- **Physical parameters**  
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** The substance is main component.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**  
Avoid contact with the skin.  
Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure** No special measures required.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- **Technical protective measures**  
No special measures required.  
Provide explosion-proof electrical equipment.  
Ensure that suitable extractors are available on processing machines
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
Avoid contact with the skin.  
Pregnant women should strictly avoid inhalation or skin contact.  
Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.  
Use gloves of stable material (e.g. Nitrile) - if necessary tricoted to improve the wearability.

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#### 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

#### · **Measures for consumer protection**

Ensure adequate labelling.

Observe consumer information and advice on safe use.

#### · **Environmental protection measures**

##### · **Water**

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

· **Soil** The product is only processed over the concrete collecting basin.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

#### · **Exposure estimation**

##### · **Consumer**

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

#### · **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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#### Annex: Exposure scenario 5

##### · Description of the activities / processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

##### · Conditions of use According to directions for use.

##### · Duration and frequency Frequency of use:

##### · Physical parameters

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

##### · Physical state Fluid

##### · Concentration of the substance in the mixture Raw material.

##### · Other operational conditions

##### · Other operational conditions affecting environmental exposure No special measures required.

##### · Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

##### · Other operational conditions affecting consumer exposure No special measures required.

##### · Other operational conditions affecting consumer exposure during the use of the product Not applicable.

##### · Risk management measures

##### · Worker protection

##### · Organisational protective measures

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

##### · Technical protective measures

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

##### · Personal protective measures

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

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

##### · Measures for consumer protection

Ensure adequate labelling.

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Observe consumer information and advice on safe use.

#### · **Environmental protection measures**

##### · **Water**

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

· **Soil** The product is only processed over the concrete collecting basin.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

##### · **Exposure estimation**

· **Consumer** This product is to be used by professional technicians only.

##### · **Guidance for downstream users**

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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#### Annex: Exposure scenario 6

- **Short title of the exposure scenario**
- **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- **Description of the activities / processes covered in the Exposure Scenario**  
See section 1 of the annex to the Safety Data Sheet.
- **Conditions of use** According to directions for use.
- **Duration and frequency** Frequency of use:
- **Physical parameters**  
The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.
- **Physical state** Fluid
- **Concentration of the substance in the mixture** Raw material.
- **Other operational conditions**
- **Other operational conditions affecting environmental exposure** No special measures required.
- **Other operational conditions affecting worker exposure**  
Take precautionary measures against static discharge.  
Keep away from sources of ignition - No smoking.
- **Other operational conditions affecting consumer exposure** Keep out of the reach of children.
- **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.
- **Risk management measures**
- **Worker protection**
- **Organisational protective measures**  
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.
- **Technical protective measures**  
No special measures required.  
Provide explosion-proof electrical equipment.
- **Personal protective measures**  
Do not inhale gases / fumes / aerosols.  
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
- **Measures for consumer protection**  
Ensure adequate labelling.  
Keep locked up and out of the reach of children.  
Observe consumer information and advice on safe use.

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#### · Environmental protection measures

##### · Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

· **Soil** The product is only processed over the concrete collecting basin.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

#### · Exposure estimation

##### · Consumer

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

#### · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.

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**Annex: Exposure scenario 7****· Description of the activities / processes covered in the Exposure Scenario**

See section 1 of the annex to the Safety Data Sheet.

**· Conditions of use** According to directions for use.**· Duration and frequency** Frequency of use:**· Physical parameters**

The data on the physical - chemical properties in the Exposure Scenario is based on the properties of the preparation.

**· Physical state** Fluid**· Concentration of the substance in the mixture** Raw material.**· Other operational conditions****· Other operational conditions affecting environmental exposure** No special measures required.**· Other operational conditions affecting worker exposure**

Avoid contact with eyes.

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

**· Other operational conditions affecting consumer exposure** No special measures required.**· Other operational conditions affecting consumer exposure during the use of the product** Not applicable.**· Risk management measures****· Worker protection****· Organisational protective measures**

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the solvent vapour concentration below the workplace limit, wear an adequate respiratory protective device.

**· Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

**· Personal protective measures**

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes.

Tightly sealed goggles

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

**· Measures for consumer protection**

Ensure adequate labelling.

Observe consumer information and advice on safe use.

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#### · Environmental protection measures

##### · Water

Do not allow to reach sewage system. Dispose of this product and its container at hazardous or special waste collection point.

· **Soil** The product is only processed over the concrete collecting basin.

· **Disposal measures** Ensure that waste is collected and contained.

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

· **Waste type** Partially emptied and uncleaned packaging

#### · Exposure estimation

##### · Consumer

This product is to be used by professional technicians only.

Not relevant for this Exposure Scenario.

#### · Guidance for downstream users

Whether the downstream user acts within the scope of the Exposure Scenario can be verified based on the information in sections 1 to 8.