

# SAFETY DATA SHEET

according to REACH Regulation UK SI 2019/758, as amended, and UK SI 2020/1577

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Version: 20,13



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## Enkopur

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

#### 1.1. Product identifier

Trade name/designation:

Enkopur

UFI:

Y6ST-1AC1-7VGC-EFR2

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

Use of the substance/mixture:

roof waterproofing

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer:

Enke-Werk, Johannes Enke GmbH & Co. KG

Hamburger Str. 16

40221 Düsseldorf

Germany

Telephone: +49 211 304074

Telefax: +49 211 393718

E-mail: info@enke-werk.de

Website: www.enke-werk.de

E-mail (competent person): sdb@enke-werk.de

#### 1.4. Emergency telephone number

24h: Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

#### 2.2. Label elements

Labelling according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard pictograms:



GHS07

Exclamation mark



GHS09

Environment

Signal word: Warning

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### Hazard components for labelling:

Aromatisches Polyisocyanat-Prepolymer; 1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate; 2-Ethylhexyl-(6-isocyanatohexyl)-carbamate; Isophorondiisocyanat Homopolymer

#### Hazard statements for health hazards

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

#### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

#### Supplemental hazard information

EUH204 Contains isocyanates. May produce an allergic reaction.

EUH208 Contains Terbutryn (ISO), Bis(2-ethylhexyl)hexan-1,6-diylbiscarbamate. May produce an allergic reaction.

#### Precautionary statements Prevention

P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing and eye protection/face protection.

#### Precautionary statements Response

P302 + P352 IF ON SKIN: Wash with plenty of water and soap.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

### Special rules for supplemental label elements for certain mixtures:

40,6 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (dermal).

8,4 % percent of the mixture consists of ingredient(s) of unknown acute toxicity (inhalative).

### 2.3. Other hazards

No data available

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Mixture of a polyisocyanates-prepolymer, additives and pigments

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 37273-56-6	<b>Aromatisches Polyisocyanat-Prepolymer</b> Eye Irrit. 2 (H319), Skin Sens. 1 (H317) ⚠ Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 5,000 mg/kg ATE (inhalation, dust/mist) > 3,820 mg/L	20 - < 45 weight-%
CAS No.: 140921-24-0 EC No.: 925-259-5 Index No.: 616-079-00-5 REACH No.: 01-0000015906-63	<b>1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate</b> Skin Sens. 1 (H317) ⚠ Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg	3 - < 10 weight-%

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Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
EC No.: 905-588-0 REACH No.: 01-2119486136-34-XXXX	<b>Reaktionsmasse von Ethylbenzol und Xylol</b> Acute Tox. 4 (H312, H332), Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226), STOT RE 2 (H373), STOT SE 3 (H335), Skin Irrit. 2 (H315) Danger <b>Acute Toxicity Estimate</b> ATE (oral) 3,500 mg/kg ATE (dermal) > 1,700 mg/kg ATE (inhalation, vapour) 11 mg/L ATE (inhalation, dust/mist) 1.5 mg/L	2 - ≤ 5 weight-%
CAS No.: 1241-94-7 EC No.: 214-987-2	<b>2-ethylhexyl diphenyl phosphate</b> Repr. 2 (H361) Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 15,800 mg/kg	< 3 weight-%
CAS No.: 26488-60-8 REACH No.: 01-2120770989-29-0000	<b>2-Ethylhexyl-(6-isocyanatoethyl)-carbamate</b> Acute Tox. 3 (H331), Aquatic Chronic 3 (H412), STOT SE 3 (H335), Skin Sens. 1B (H317) Danger <b>Acute Toxicity Estimate</b> ATE (oral) > 2,000 mg/kg ATE (inhalation, dust/mist) 0.521 mg/L	≤ 2 weight-%
CAS No.: 53880-05-0 EC No.: 500-125-5 REACH No.: 01-2119488734-24-0002	<b>Isophorondiisocyanat Homopolymer</b> STOT SE 3 (H335), Skin Sens. 1B (H317) Warning <b>Acute Toxicity Estimate</b> ATE (oral) > 14,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	≤ 2 weight-%
CAS No.: 108-65-6 EC No.: 203-603-9 Index No.: 607-195-00-7 REACH No.: 01-2119475791-29	<b>2-methoxy-1-methylethyl acetate</b> Flam. Liq. 3 (H226), STOT SE 3 (H336) Warning <b>Acute Toxicity Estimate</b> ATE (oral) 6,190 - 10,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) > 2,000 ppmV ATE (inhalation, dust/mist) > 2,000 mg/L	< 1 weight-%
EC No.: 278-583-8	<b>Bis(2-ethylhexyl)hexan-1,6-diylbiscarbamate</b> Acute Tox. 3 (H331), Aquatic Chronic 2 (H411), STOT SE 3 (H335), Skin Sens. 1B (H317) Danger <b>Acute Toxicity Estimate</b> ATE (inhalation, vapour) 3 mg/L ATE (inhalation, dust/mist) 0.5 mg/L	≤ 1 weight-%
CAS No.: 886-50-0 EC No.: 212-950-5	<b>Terbutryn (ISO)</b> Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Sens. 1B (H317) Warning M-factor (acute): 100 M-factor (chronic): 100 <b>Acute Toxicity Estimate</b> ATE (oral) 500 mg/kg	≤ 1 weight-%

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Product identifiers	Substance name Classification according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567	Concentration
CAS No.: 64359-81-5 EC No.: 264-843-8 Index No.: 613-335-00-8	<b>4,5-dichloro-2-octyl-2H-isothiazol-3-one</b> Acute Tox. 2 (H330), Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), Eye Irrit. 2 (H319), Skin Corr. 1 (H314), Skin Irrit. 2 (H315), Skin Sens. 1A (H317)  Danger EUH071 M-factor (acute): 100 M-factor (chronic): 100 <b>Specific concentration limit (SCL)</b> Skin Irrit. 2; H315: $0.025\% \leq C < 5\%$ Eye Irrit. 2; H319: $0.025\% \leq C < 3\%$ Skin Sens. 1A; H317: $C \geq 0.0015\%$ <b>Acute Toxicity Estimate</b> ATE (oral) 567 mg/kg ATE (inhalation, dust/mist) 0.16 mg/L	$\leq 0.1$ weight-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

#### Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

#### After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### Following ingestion:

Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get medical advice/attention if you feel unwell.

#### Self-protection of the first aider:

Use personal protection equipment.

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

Skin corrosion/irritation. Allergic reactions. Serious eye damage/eye irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings. Powder, Foam, Water spray jet, Carbon dioxide (CO<sub>2</sub>).

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

The product itself does not burn.

#### Hazardous combustion products:

In case of fire: Gases/vapours, toxic. Carbon monoxide, Nitrogen oxides (NO<sub>x</sub>); Isocyanates, Hydrogen cyanide (hydrocyanic acid)

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

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### 5.4. Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Remove persons to safety.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

#### 6.1.2. For emergency responders

**Personal protection equipment:**

Personal protection equipment: see section 8

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

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

**For containment:**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up:**

Take up mechanically. Add the decontaminant to the remnants and let stand for several days in a non-sealed container until no further reaction is observed. Once reaction is finished, close container and dispose of.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

### 6.5. Additional information

Use appropriate container to avoid environmental contamination.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Wear personal protection equipment (refer to section 8). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. Do not breathe gas/fumes/vapour/spray.

**Fire prevent measures:**

No special measures are necessary.

**Advices on general occupational hygiene**

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

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

**Technical measures and storage conditions:**

Keep container tightly closed in a cool, well-ventilated place.

**Storage class (TRGS 510, Germany):** 10 - Combustible liquids that cannot be assigned to any of the above storage classes

### 7.3. Specific end use(s)

**Recommendation:**

roof waterproofing

**Industrial sector specific solutions:**

PU systems, harmful, eye damage, low solvent content (<10% VOC)

**GISCODE:**

PU30

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	① 10 mg/m <sup>3</sup> ⑤ (inhalable fraction)
WEL (GB)	<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	① 4 mg/m <sup>3</sup> ⑤ (respirable fraction)
WEL (GB)	<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	① 0.02 mg/m <sup>3</sup> ② 0.07 mg/m <sup>3</sup>
BOELV (EU) from 8 Apr 2024	<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	① 10 µg/m <sup>3</sup> ② 20 µg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
BOELV (EU) from 1 Jan 2029	<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	① 6 µg/m <sup>3</sup> ② 12 µg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
WEL (GB)	<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	① 500 mg/m <sup>3</sup> ⑤ (hydrocarbons, aromatic)
IOELV (EU)	<b>2-methoxy-1-methylethyl acetate</b> CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (275 mg/m <sup>3</sup> ) ② 100 ppm (550 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	<b>2-methoxy-1-methylethyl acetate</b> CAS No.: 108-65-6 EC No.: 203-603-9	① 50 ppm (274 mg/m <sup>3</sup> ) ② 100 ppm (548 mg/m <sup>3</sup> ) ⑤ (may be absorbed through the skin)
WEL (GB)	<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	① 0.1 mg/m <sup>3</sup> ② 0.2 mg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
WEL (GB)	<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	① 3 mg/m <sup>3</sup> ② 6 mg/m <sup>3</sup>
WEL (GB)	<b>3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanat; Isophorondiisocyanat</b> CAS No.: 4098-71-9 EC No.: 223-861-6	① 0.02 mg/m <sup>3</sup> ② 0.07 mg/m <sup>3</sup>
BOELV (EU) from 8 Apr 2024	<b>3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanat; Isophorondiisocyanat</b> CAS No.: 4098-71-9 EC No.: 223-861-6	① 10 µg/m <sup>3</sup> ② 20 µg/m <sup>3</sup> ⑤ (may be absorbed through the skin)
BOELV (EU) from 1 Jan 2029	<b>3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanat; Isophorondiisocyanat</b> CAS No.: 4098-71-9 EC No.: 223-861-6	① 6 µg/m <sup>3</sup> ② 12 µg/m <sup>3</sup> ⑤ (may be absorbed through the skin)

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### 8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① Parameter ② Test material ③ Time of sampling: ④ Remark
BMGV (GB) from 21 Aug 2018	<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	1 µmol/mol creatinine	① isocyanate-derived diamine ② urine ③ end of exposure or end of shift
BMGV (GB) from 21 Aug 2018	<b>3-Isocyanatomethyl-3,5,5-trimethylcyclohexylisocyanat; Isophorondiisocyanat</b> CAS No.: 4098-71-9 EC No.: 223-861-6	1 µmol/mol creatinine	① isocyanate-derived diamine ② urine ③ end of exposure or end of shift

### 8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	3.91 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	0.97 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	2.4 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	9.79 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	1.11 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	0.56 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	0.56 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	0.006 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	0.011 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	3.72 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	3.72 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	7.9 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	0.29 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5	0.58 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	330 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	71 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	44 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	26 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Kohlenwasserstoffe, C9-C12, n-Alkane, iso-Alkane, cyclisch, aromatisch (2-25%)</b> CAS No.: 64742-82-1 EC No.: 919-446-0	26 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	221 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	65.3 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	442 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	260 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	221 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, local effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	65.2 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, local effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	442 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, local effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	260 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, local effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	212 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.02 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.0046 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.059 mg/m <sup>3</sup>	① DNEL worker ② Acute - inhalation, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.04 mg/m <sup>3</sup>	① DNEL Consumer ② Acute - inhalation, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.43 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.16 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	2.05 mg/kg bw/day	① DNEL worker ② Acute - dermal, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.5 mg/kg bw/ day	① DNEL Consumer ② Acute - dermal, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.0031 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>dibutyltin dilaurate</b> CAS No.: 77-58-7 EC No.: 201-039-8	0.02 mg/kg bw/day	① DNEL Consumer ② Acute - oral, systemic effects
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	3.7 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.91 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	1.05 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.525 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.525 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2	1.62 mg/kg	① PNEC secondary poisoning
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	1 µg/L	① PNEC aquatic, freshwater
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	0.1 µg/L	① PNEC aquatic, marine water
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	0.64 mg/L	① PNEC sewage treatment plant
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	5.82 mg/kg	① PNEC sediment, freshwater
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	0.582 mg/kg	① PNEC sediment, marine water

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Substance name	PNEC Value	① PNEC type
<b>2-Ethylhexyl-(6-isocyanatohexyl)- carbamat</b> CAS No.: 26488-60-8	1.16 mg/kg	① PNEC soil
<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	74.9 µg/L	① PNEC aquatic, freshwater
<b>Aluminiumpulver (stabilisiert)</b> CAS No.: 7429-90-5 EC No.: 231-072-3	20 mg/L	① PNEC sewage treatment plant
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	0.327 mg/L	① PNEC aquatic, freshwater
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	0.327 mg/L	① PNEC aquatic, marine water
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	6.58 mg/L	① PNEC sewage treatment plant
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	12.46 mg/kg	① PNEC sediment, freshwater
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	12.46 mg/kg	① PNEC sediment, marine water
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	2.31 mg/kg	① PNEC soil
<b>Reaktionsmasse aus Ethylbenzol und Xylol</b>	0.327 mg/L	① PNEC aquatic, intermittent release
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	0.1 mg/L	① PNEC aquatic, freshwater
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	0.01 mg/L	① PNEC aquatic, marine water
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	2.19 mg/L	① PNEC sewage treatment plant
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	2.69 mg/kg	① PNEC sediment, freshwater
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	0.269 mg/kg	① PNEC sediment, marine water
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	0.603 mg/kg	① PNEC soil
<b>hexahydromethylphthalic anhydride</b> CAS No.: 25550-51-0 EC No.: 247-094-1	1 mg/L	① PNEC aquatic, intermittent release
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.00048 mg/L	① PNEC aquatic, freshwater
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.000048 mg/ L	① PNEC aquatic, marine water
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	5 mg/L	① PNEC sewage treatment plant
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.14285 mg/ kg	① PNEC sediment, freshwater
<b>triphenyl phosphate</b> CAS No.: 115-86-6 EC No.: 204-112-2	0.014285 mg/ kg	① PNEC sediment, marine water

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Substance name	PNEC Value	① PNEC type
triphenyl phosphate CAS No.: 115-86-6 EC No.: 204-112-2	0.0282 mg/kg	① PNEC soil
triphenyl phosphate CAS No.: 115-86-6 EC No.: 204-112-2	16.667 mg/kg	① PNEC secondary poisoning
triphenyl phosphate CAS No.: 115-86-6 EC No.: 204-112-2	0.0025 mg/L	① PNEC aquatic, intermittent release

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

Provide fresh air. If handled uncovered, arrangements with local exhaust ventilation have to be used.

#### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Hand protection: When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Our recommendation is as follows: Suitable materials for prolonged, direct contact (at least protection index 6, corresponding to > 480 minutes permeation time according to EN 374): Neoprene®, Viton®, PVC, butyl or nitrile rubber. Dispose of contaminated gloves. With proper, optimized operation, only short-term contact and liquid splashes are to be expected, therefore, according to DGUV Information 212-007, a glove with a minimum protection class of 1 (<10 min permeation time) is sufficient. It must be ensured that the gloves are changed at short notice in case of chemical contact.

Body protection: Use of protective clothing

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Fresh air mask. Short term filler device: A2 - P2.

#### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Liquid

Colour: silver grey

Odour: Xylene

flammability: Yes

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	100 °C		
Flash point	48 °C		② Not sustaining combustion.

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Parameter	Value	at °C	① Method ② Remark
Evaporation rate	No data available		
Auto-ignition temperature	not applicable		
Upper/lower flammability or explosive limits	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Density	1.4 g/cm <sup>3</sup>	20 °C	
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	7,000 mPa* s	20 °C	
Kinematic viscosity	No data available		
Sustaining combustion			② Not sustaining combustion.

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

Exothermic reaction with: Amines, Alcohol; Reaction with water or humidity may form CO<sub>2</sub>. Risk of bursting!

### 10.4. Conditions to avoid

No data available

### 10.5. Incompatible materials

No data available

### 10.6. Hazardous decomposition products

In case of fire: Gases/vapours, toxic

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

<b>Aromatisches Polyisocyanat-Prepolymer</b> CAS No.: 37273-56-6
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >3,820 mg/L 4 h (Ratte)
<b>1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate</b> CAS No.: 140921-24-0 EC No.: 925-259-5
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)
<b>Reaktionsmasse von Ethylbenzol und Xylol</b> EC No.: 905-588-0
<b>LD<sub>50</sub> oral:</b> 3,500 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >1,700 mg/kg (Kaninchen)
<b>2-ethylhexyl diphenyl phosphate</b> CAS No.: 1241-94-7 EC No.: 214-987-2
<b>LD<sub>50</sub> oral:</b> >15,800 mg/kg (Ratte)
<b>2-Ethylhexyl-(6-isocyanatohexyl)-carbamate</b> CAS No.: 26488-60-8
<b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Ratte) OECD 423
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 0.521 mg/L 4 h (Ratte) OECD 403

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<b>Isophorondiisocyanat Homopolymer</b> CAS No.: 53880-05-0 EC No.: 500-125-5
<b>LD<sub>50</sub> oral:</b> >14,000 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >5 mg/L 4 h (Ratte) OECD 403
<b>2-methoxy-1-methylethyl acetate</b> CAS No.: 108-65-6 EC No.: 203-603-9
<b>LD<sub>50</sub> oral:</b> 6,190 - 10,000 mg/kg (Ratte)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >2,000 ppmV 3 h (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> >2,000 mg/L 3 h (Rat)
<b>4,5-dichloro-2-octyl-2H-isothiazol-3-one</b> CAS No.: 64359-81-5 EC No.: 264-843-8
<b>ATE (oral)<sup>1</sup>:</b> 567 mg/kg
<b>ATE (inhalation, dust/mist)<sup>1</sup>:</b> 0.16 mg/L

<sup>1</sup>: Acute Toxicity Estimate. Harmonised (legal) classification.

### Acute oral toxicity:

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

### Acute dermal toxicity:

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

### Acute inhalation toxicity:

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

### Skin corrosion/irritation:

Causes skin irritation.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

May cause an allergic skin reaction. Contains Terbutryn (ISO), Bis(2-ethylhexyl)hexan-1,6-diylobiscarbamat. May produce an allergic reaction.

### Germ cell mutagenicity:

Based 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.

### Additional information:

No data available

## 11.2. Information on other hazards

### Endocrine disrupting properties:

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

### Other information:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons with a history of asthma, allergies, chronic or recurrent respiratory disease should not be exposed to any process in which this product is used.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>Aromatisches Polyisocyanat-Prepolymer</b> CAS No.: 37273-56-6
<b>EC<sub>50</sub></b> : >10,000 mg/L (Algae/water plant, Belebtschlamm) OECD 209
<b>EC<sub>50</sub></b> : >10,000 mg/L (Algae/water plant, Activated sludge) ISO Vorschrift 8192-1986 E
<b>EC<sub>50</sub></b> : >10,000 mg/L (Algae/water plant, Activated sludge) OECD 209
<b>1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate</b> CAS No.: 140921-24-0 EC No.: 925-259-5
<b>LC<sub>50</sub></b> : 316 mg/L 4 d (fish, Zebrafisch)
<b>LC<sub>50</sub></b> : >316 mg/L 4 d (fish, Brachydanio rerio)
<b>EC<sub>50</sub></b> : 193 mg/L 2 d (crustaceans, wirbellose Wasserlebewesen) EU method C.2
<b>EC<sub>50</sub></b> : 193 mg/L 2 d (crustaceans, Daphnia magna)
<b>EC<sub>50</sub></b> : 43 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)
<b>IC<sub>50</sub></b> : 43 mg/L 3 d (Algae/water plant, Grünalge) EU method C.3
<b>IC<sub>50</sub></b> : 43 mg/L 3 d (Algae/water plant, Grünalge) EU method C.3
<b>Reaktionsmasse von Ethylbenzol und Xylol</b> EC No.: 905-588-0
<b>LC<sub>50</sub></b> : 2.6 mg/L 4 d (fish, Fisch (salmo gairdneri)) OECD 203
<b>EC<sub>50</sub></b> : 4.6 mg/L 3 d (Algae/water plant, Alge (Pseudokirchneriella subcapitata)) OECD 201
<b>NOEC</b> : 1.17 mg/L (crustaceans, Ceriodaphnia dubia (Wasserfloh)) EPA 600/4-91/003
<b>NOEC</b> : >1.3 mg/L 56 d (fish, Fisch (salmo gairdneri))
<b>NOEC</b> : 16 mg/L 28 d (Algae/water plant, Belebtschlamm eines überwiegend kommunalen Abwassers) OECD 301F
<b>NOEC</b> : 16 mg/L 28 d (Algae/water plant, Belebtschlamm eines überwiegend kommunalen Abwassers) OECD 301 F
<b>ErC<sub>50</sub></b> : 4.7 mg/L 3 d (Algae/water plant, Alge (Pseudo-kirchneriella subcapitata)) OECD 201
<b>LOEC</b> : 3.16 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
<b>LC<sub>50</sub></b> : 2.6 mg/L 4 d (fish, fish (salmo gairdneri)) OECD 203
<b>EC<sub>50</sub></b> : 4.6 mg/L 3 d (Algae/water plant, Alge Pseudokirchneriella subcapitata) OECD 201
<b>ErC<sub>50</sub></b> : 4.7 mg/L 3 d (Algae/water plant, Alge Pseudokirchneriella subcapitata) OECD 201
<b>LOEC</b> : 3.16 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
<b>LC<sub>50</sub></b> : 2.6 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) OECD Prüfrichtlinie 203
<b>EC<sub>50</sub></b> : 2.2 mg/L (Algae/water plant) OECD- Prüfrichtlinie 201
<b>ErC<sub>50</sub></b> : 4.9 mg/L 3 d (Algae/water plant)
<b>2-Ethylhexyl-(6-isocyanatohexyl)-carbamate</b> CAS No.: 26488-60-8
<b>LC<sub>50</sub></b> : >100 mg/L 4 d (fish, Danio rerio (Zebrafisch)) OECD 203
<b>LC<sub>50</sub></b> : >100 mg/L 4 d (fish, Danio rerio (zebrafish)) OECD 203
<b>EC<sub>50</sub></b> : >100 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
<b>EC<sub>50</sub></b> : 64 mg/L (Algae/water plant, Belebtschlamm) OECD 209
<b>EC<sub>50</sub></b> : >100 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
<b>ErC<sub>50</sub></b> : >1 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (Grünalge)) OECD 201
<b>ErC<sub>50</sub></b> : >1 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus (Grünalge)) OECD 201

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**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9

**LC<sub>50</sub>**: 180 mg/L 4 d (fish, Regenbogenforelle (Mikroorganismen))

**LC<sub>50</sub>**: 63.5 mg/L (fish, Oryzias Latipes) OECD 204

**EC<sub>50</sub>**: >500 mg/L 2 d (Algae/water plant, Daphnia magna)

**EC<sub>50</sub>**: >100 mg/L 21 d (Algae/water plant, Daphnia magna) OECD 211

**EC<sub>50</sub>**: >0.39 mg/L 21 d (Algae/water plant, Daphnia magna) OECD 202

**NOEC**: 47.5 mg/L (fish, Oryzias Latipes) OECD 204

**LOEC**: 0.14 mg/L (fish, Oryzias Latipes) OECD 210

**NOEC**: 0.053 mg/L (fish, Oryzias Latipes) OECD 210

**NOEC**: 0.316 mg/L 21 d (Algae/water plant, Daphnia magna)

**LOEC**: >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201

**LC<sub>50</sub>**: 63.5 mg/L (fish, Oryzias Latipes) OECD 204

**LOEC**: 0.14 mg/L (fish, Oryzias Latipes) OECD 210

**ErC<sub>50</sub>**: >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata (Grünalge)) OECD 201

**ErC<sub>50</sub>**: >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata (einzellige Grünalge)) OECD 201

**Terbutryn (ISO)** CAS No.: 886-50-0 EC No.: 212-950-5

**EC<sub>50</sub>**: 0.0067 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**EC<sub>50</sub>**: 6.4 mg/L 2 d (crustaceans, Daphnie) OECD 202

**LC<sub>50</sub>**: 1.9 mg/L 4 d (fish, Regenbogenforelle) OECD 203

**NOEC**: 0.05 mg/L 21 d (crustaceans, Daphnie) OECD 211

**NOEC**: 0.073 mg/L 28 d (fish, Dickkopfelritze) OECD 210

**NOEC**: 0.0005 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**EC<sub>50</sub>**: 0.0067 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**LC<sub>50</sub>**: 1.9 mg/L 4 d (fish, Regenbogenforelle) OECD 203

**4,5-dichloro-2-octyl-2H-isothiazol-3-one** CAS No.: 64359-81-5 EC No.: 264-843-8

**LC<sub>50</sub>**: 0.0078 mg/L 4 d (fish, Regenbogenforelle) OECD 203

**EC<sub>50</sub>**: 0.025 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**EC<sub>50</sub>**: 0.0097 mg/L 2 d (crustaceans, Daphnie) OECD 202

**NOEC**: 0.0004 mg/L 21 d (crustaceans, Daphnie) OECD 211

**NOEC**: 0.00047 mg/L (fish, Zebrafisch) OECD 210

**NOEC**: 0.015 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**EC<sub>50</sub>**: 0.025 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201

**LC<sub>50</sub>**: 0.0078 mg/L 4 d (fish, Regenbogenforelle) OECD 203

### Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

### 12.2. Persistence and degradability

**Aromatisches Polyisocyanat-Prepolymer** CAS No.: 37273-56-6

**Biodegradation:** Yes, slowly

**1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** CAS No.: 140921-24-0

EC No.: 925-259-5

**Biodegradation:** Yes, rapidly

**Reaktionsmasse von Ethylbenzol und Xylol** EC No.: 905-588-0

**Biodegradation:** Yes, rapidly

**2-ethylhexyl diphenyl phosphate** CAS No.: 1241-94-7 EC No.: 214-987-2

**Biodegradation:** Yes, rapidly

**2-Ethylhexyl-(6-isocyanatohexyl)-carbamate** CAS No.: 26488-60-8

**Biodegradation:** Yes, slowly

**Isophorondiisocyanat Homopolymer** CAS No.: 53880-05-0 EC No.: 500-125-5

**Biodegradation:** Yes, slowly

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**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9

**Biodegradation:** Yes, rapidly

**Terbutryn (ISO)** CAS No.: 886-50-0 EC No.: 212-950-5

**Biodegradation:** Yes, rapidly

### 12.3. Bioaccumulative potential

**Reaktionsmasse von Ethylbenzol und Xylol** EC No.: 905-588-0

**Log K<sub>OW</sub>:** 3.2

**2-ethylhexyl diphenyl phosphate** CAS No.: 1241-94-7 EC No.: 214-987-2

**Log K<sub>OW</sub>:** 5.87

**2-Ethylhexyl-(6-isocyanatohexyl)-carbamate** CAS No.: 26488-60-8

**Bioconcentration factor (BCF):** 118

**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9

**Log K<sub>OW</sub>:** 1.2

**Terbutryn (ISO)** CAS No.: 886-50-0 EC No.: 212-950-5

**Log K<sub>OW</sub>:** 3.19

**Bioconcentration factor (BCF):** 103

**4,5-dichloro-2-octyl-2H-isothiazol-3-one** CAS No.: 64359-81-5 EC No.: 264-843-8

**Log K<sub>OW</sub>:** 4.4

**Bioconcentration factor (BCF):** 13

### 12.4. Mobility in soil

No data available

### 12.5. Results of PBT and vPvB assessment

**Aromatisches Polyisocyanat-Prepolymer** CAS No.: 37273-56-6

**Results of PBT and vPvB assessment:** —

**1,6-Hexandiyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate** CAS No.: 140921-24-0  
EC No.: 925-259-5

**Results of PBT and vPvB assessment:** —

**Reaktionsmasse von Ethylbenzol und Xylol** EC No.: 905-588-0

**Results of PBT and vPvB assessment:** —

**2-ethylhexyl diphenyl phosphate** CAS No.: 1241-94-7 EC No.: 214-987-2

**Results of PBT and vPvB assessment:** —

**2-Ethylhexyl-(6-isocyanatohexyl)-carbamate** CAS No.: 26488-60-8

**Results of PBT and vPvB assessment:** —

**Isophorondiisocyanat Homopolymer** CAS No.: 53880-05-0 EC No.: 500-125-5

**Results of PBT and vPvB assessment:** —

**2-methoxy-1-methylethyl acetate** CAS No.: 108-65-6 EC No.: 203-603-9

**Results of PBT and vPvB assessment:** —

**Bis(2-ethylhexyl)hexan-1,6-diylbiscarbamate** EC No.: 278-583-8

**Results of PBT and vPvB assessment:** —

**Terbutryn (ISO)** CAS No.: 886-50-0 EC No.: 212-950-5

**Results of PBT and vPvB assessment:** —

**4,5-dichloro-2-octyl-2H-isothiazol-3-one** CAS No.: 64359-81-5 EC No.: 264-843-8

**Results of PBT and vPvB assessment:** —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Adhering to the official regulations, it can be disposed of in appropriate incinerator. Cured residual material can be disposed of with household waste .

Disposal of packaging:

Containers have to be emptied completely and free of drops after final product removal. Emptied packages can be returned to the partners of Kreislaufsystem Blechverpackungen Stahl (Recycling system for metal containers).

Collection points are provided by the ENKE company as user of the mark.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

08 01 11 \* Waste paint and varnish containing organic solvents or other dangerous substances

\*: Evidence for disposal must be provided.

#### Waste treatment options

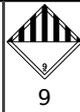
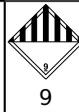
##### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

##### Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 3082	UN 3082	UN 3082	UN 3082
<b>14.2. UN proper shipping name</b>			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es)</b>			
 9	 9	 9	 9
<b>14.4. Packing group</b>			
III	III	III	III
<b>14.5. Environmental hazards</b>			
		 MARINE POLLUTANT	
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>Hazard identification number (Kemler No.):</b> 90 <b>Classification code:</b> M6	<b>Special Provisions:</b> 274   335   375   601 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>Classification code:</b> M6	<b>Special Provisions:</b> 274   335   969 <b>Limited quantity (LQ):</b> 5 L <b>Excepted Quantities (EQ):</b> E1 <b>EmS-No.:</b> F-A, S-F	<b>Special Provisions:</b> A97   A158   A197   A215 <b>Limited quantity (LQ):</b> Y964 <b>Excepted Quantities (EQ):</b> E1

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
Tunnel restriction code: (-)			

### 14.7. Maritime transport in bulk according to IMO instruments

No data available

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

3, 28, 40, 75

##### Other regulations (EU):

Hazard categories:

- E2 Hazardous to the Aquatic Environment in Category Chronic 2
- To follow: 850/2004/EC , 79/117/EEC , 689/2008/EC

#### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

Eine Stoffsicherheitsbeurteilung wurde für folgende Stoffe in diesem Gemisch durchgeführt: Terbutryn

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AGW	Threshold Limit Value
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard
ERC	Environmental Release Category
ES	Exposure scenario
EWC	European Waste Catalogue
IC <sub>50</sub>	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development

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OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PC	Product category
PNEC	Predicted No Effect Concentration
PROC	Process Category
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
SCL	Specific concentration limit
SU	use category
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
ZNS	central nervous system

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567

Hazard classes and hazard categories	Hazard statements	Classification procedure
Skin corrosion/irritation ( <i>Skin Irrit. 2</i> )	H315: Causes skin irritation.	Calculation method.
Respiratory or skin sensitisation ( <i>Skin Sens. 1</i> )	H317: May cause an allergic skin reaction.	Calculation method.
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	Calculation method.
Hazardous to the aquatic environment ( <i>Aquatic Chronic 2</i> )	H411: Toxic to aquatic life with long lasting effects.	Calculation method.

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Supplemental hazard information	
EUH071	Corrosive to the respiratory tract.

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### 16.6. Training advice

No data available

### 16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The current version of this safety data sheet is available on our website [www.enke-werk.de](http://www.enke-werk.de)