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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from

time to time

Printing date 28.02.2023

\*

Version-No. 2 (replaces version 1)

Revision: 28.02.2023

1.1. Product identifier	
Trade name / Article-No: KL	LEIBERIT 303.5 ME
UFI: G2PQ-X00X-600K-RMM	ЛF
	s of the substance / mixture <u>or</u> uses advised against
For professional users only.	ce / the mixture Hardening agent/ Curing agent
1.3. Details of the supplier of Manufacturer/Supplier:	of the safety data sheet
KLEIBERIT SE & Co. KG	
Max-Becker-Str. 4	
76356 Weingarten Germany	
Further information obtaina	able from:
phone: +49 (0) 7244 62-0	
FAX: +49 (0) 7244 700-0 E-Mail: hse@kleiberit.com	
1.4. Emergency telephone r	number:
+44 1235 239670 European r	regional number (European languages)
112 Emergency telephone nu 543 22 22 Icelandic University	
SECTION 2: Hazards ic	dentification
2.1. Classification of the su	bstance or mixture
-	Regulation (EC) No 1272/2008 - GHS/CLP
Acute Tox. 4 H332 Harmful if	
Skin Irrit. 2 H315 Causes sl	
Eye Dam. 1 H318 Causes se	, .
Skin Sens. 1 H317 May cause	-
STOT SE 3 H335 May cause	
2.2. Label elements Hazard pictograms	
$\land$	
GHS05 GHS07	
<b>Cianal word</b> Danger	
Signal word Danger	
Hazard-determining compo aliphatic polyisocyanate, base	
Polyoxyethylene tridecyl ether	r phosphate
N,N-Dimethylcyclohexylamine	
novomothylono 1 6 duoovon	late
hexamethylene-1,6-diisocyan	
Hazard statements H332 Harmful if inhaled.	



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H217 May aquad an allorgia akin re		td. of page 1)
H317 May cause an allergic skin re H335 May cause respiratory irritation		
· Precautionary statements		
	mist/vapours/spray.	
	e gloves / eye protection / face protection.	
	ash with plenty of water and soap.	
	emove person to fresh air and keep comfortable for breathing.	
	ise cautiously with water for several minutes. Remove contact lens	es if
	sy to do. Continue rinsing.	00, 11
	ventilated place. Keep container tightly closed.	
Additional information:	······································	
Contains isocyanates. May produc	e an allergic reaction.	
2.3. Other hazards	5	
• Results of PBT and vPvB assess	sment	
· <b>PBT:</b> Not applicable.		
• <b>vPvB:</b> Not applicable.		
SECTION 2: Composition/i	nformation on ingradiants	
SECTION 3: Composition/i	mormation on ingredients	
· 3.2 Mixtures		
<ul> <li>Description: Mixture of substance</li> </ul>	s listed below with nonhazardous additions.	
· Dangerous components:		
· Registry-No's Ident	tification / Classification GHS-CLP	%
CAS: 28182-81-2	aliphatic polyisocyanate, based on HDI Acute Tox. 4, H332; Skin Sens. 1, H317; STOT SE 3, H335	~96%
Reg.III 01-2113-00730-17-XXXX	Acute 10x. 4, 1332, 3km 3ems. 1, 1317, 3101 3E 3, 1333	
CAS: 9046-01-9	Polyoxyethylene tridecyl ether phosphate	~3%
	Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
		. 40/
CAS: 98-94-2	N,N-Dimethylcyclohexylamine	<1%
Reg.nr.: 01-2119533030-60-XXXX	Flam. Liq. 3, H226; Acute Tox. 3, H301; Acute Tox. 3, H311; Acut Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Chronic 2, H411	9
CAS: 822-06-0	hexamethylene-1,6-diisocyanate	<0.1%
Reg.nr.: 01-2119457571-37-XXXX	Acute Tox. 1, H330; Resp. Sens. 1, H334; Acute Tox. 4, H302; Sk Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204	in
	Specific concentration limits: Resp. Sens. 1; H334: $C \ge 0.5 \%$ Skin Sens. 1; H317: $C \ge 0.5 \%$	
· Additional information: For the w	ording of the listed hazard phrases refer to section 16.	
SECTION 4: First aid meas	ures	
. 4.1. Description of first sid mass		
<ul> <li>4.1. Description of first aid meas</li> <li>General information:</li> </ul>	ules	
	occur after several hours; therefore medical observation for at leas	t 19 hours
after the accident.		
• After inhalation:		
	nations atably in aido position for transportation	
in case of unconsciousness place	patient stably in side position for transportation.	d. on page 3)
	(2011	EU



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Take affected persons into fresh air and keep quiet.

After skin contact:

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

If skin irritation continues, consult a doctor.

- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- · After swallowing: Call for a doctor immediately.
- **4.2. Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3. Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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

#### · 5.1. Extinguishing media

· Suitable extinguishing agents:

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

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

In case of fire, the following can be released:

Isocyanates

Nitrogen oxides (NOx)

Traces: Hydrogen cyanide (HCN)

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

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

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

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2. Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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

### 7.1. Precautions for safe handling

Appropriate regular employee training.

Handle the substance preferably in closed system

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



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Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with the skin.

Handling procedures must be well documented.

• General protective and hygienic measures:

ensure that eye rinse stations and safety showers are close to workplace.

· 7.2. Conditions for safe storage, including any incompatibilities

· Storage:

• Requirements to be met by storerooms and receptacles: Keep container tightly closed.

- · Information about storage in one common storage facility: Observe the national regulations.
- · Further information about storage conditions: None.

• 7.3. Specific end use(s) No further relevant information available.

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

#### · 8.1. Control parameters

# Ingredients with limit values that require monitoring at the workplace: DNELs

#### 28182-81-2 aliphatic polyisocyanate, based on HDI

Inhalative DNEL short term 1 mg/m3 (human being) DNEL long term 0.5 mg/m3 (human being)

#### 98-94-2 N,N-Dimethylcyclohexylamine

Inhalative DNEL short term 35 mg/m3 (human being) DNEL long term 35 mg/m3 (human being)

#### · PNECs

#### 28182-81-2 aliphatic polyisocyanate, based on HDI

PNEC- Freshwater	0.127 mg/l (not specified)
PNEC-seawater	0.0127 mg/l (not specified)
PNEC-Freshwater sediment	266,701 mg/kg (not specified)
PNEC-Seawater sediment	26,670 mg/kg (not specified)
PNEC-soil	53.2 mg/kg (not specified)
PNEC-wastewater treatment plant	38.28 mg/l (not specified)

#### 98-94-2 N,N-Dimethylcyclohexylamine

PNEC- Freshwater	0.002 mg/l (not specified)
PNEC-seawater	0.0002 mg/l (not specified)
PNEC-Freshwater sediment	0.0211 mg/kg (not specified)
PNEC-Seawater sediment	0.00211 mg/kg (not specified)
PNEC-soil	0.00305 mg/kg (not specified)
PNEC-wastewater treatment plant	t 20.6 mg/l (not specified)

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Ingredients with biological limit value	s:
822-06-0 hexamethylene-1,6-diisocyana	ate
BGW (Germany) 15 μg/g Kreatinin	
Untersuchungsmaterial:	
	Expositionsende bzw. Schichtende
Parameter: Hexamethyl	endiamin (nach Hydrolyse)
CAS No. Designation of material %	% Type Value Unit
822-06-0 hexamethylene-1,6-diisocyana	ate
AGW (Germany) Long-term value: 0.035 1;=2=(I);DFG, 11, 12, Sa	
8.2. Exposure controls	
limit the exposure to:	
8 hours	
Appropriate engineering controls No fu	urther data; see item 7.
Individual protection measures, such a	as personal protective equipment
	<b>Jres:</b> Do not inhale gases / fumes / aerosols.
<b>Respiratory protection:</b> Filter A (DIN EN	
Hand protection	
Protective gloves	
Avoid difect contact with the chemical me	
	e product/ the preparation by organisational measures.
Material of gloves A Nitrile rubber - NBF	R: AlphaTec® (> 0,4 mm)
Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl	R: AlphaTec® (> 0,4 mm)
Material of gloves A Nitrile rubber - NBF	R: AlphaTec® (> 0,4 mm)
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and	R: AlphaTec® (> 0,4 mm) es g <b>cal properties</b>
Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties
Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state	R: AlphaTec® (> 0,4 mm) es g <b>cal properties</b>
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour:	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour: Odour threshold:	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined.
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and range	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined. 4 boiling >160 °C
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and range Flammability Lower and upper explosion limit Lower: Upper:	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined. d boiling >160 °C Not applicable. Not determined.
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Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature:	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined. Undetermined. boiling >160 °C Not applicable. Not determined. >150 °C Not applicable.
Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature: Decomposition temperature:	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined. d boiling >160 °C Not applicable. Not determined. >150 °C
Material of gloves <u>A</u> Nitrile rubber - NBF Eye/face protection Tightly sealed goggl Body protection: Protective work clothing SECTION 9: Physical and chemi 9.1. Information on basic physical and General Information Physical state Colour: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point and range Flammability Lower and upper explosion limit Lower: Upper: Flash point: Ignition temperature: Decomposition temperature: pH	R: AlphaTec® (> 0,4 mm) es g cal properties chemical properties Fluid Colourless Odourless Not determined. Undetermined. Undetermined. boiling >160 °C Not applicable. Not determined. >150 °C Not applicable. Not determined. >150 °C Not applicable. Not determined.
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Solubility	Not miscible or difficult to mix.
· water:	Not misciple of announ to mix. Not determined.
Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
<ul> <li>Density and/or relative density</li> <li>Density at 20 °C;</li> </ul>	$a_2$ 1 12 g/am <sup>3</sup>
· Density at 20 °C:	ca. 1.13 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
• 9.2. Other information	
· Appearance:	
· Form:	Fluid
Important information on protection of health and	
environment, and on safety.	
Auto-ignition temperature:	Product is not selfigniting.
<ul> <li>Explosive properties:</li> </ul>	Product does not present an explosion hazard.
<sup>•</sup> Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazard classes	
· Explosives	Void
Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
Flammable liquids	Void
<sup>·</sup> Flammable solids	Void
Self-reactive substances and mixtures	Void
<sup>•</sup> Pyrophoric liquids	Void
<sup>•</sup> Pyrophoric solids	Void
Self-heating substances and mixtures	Void
<ul> <li>Substances and mixtures, which emit flammable</li> </ul>	
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
· Desensitised explosives	Void

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity

see item 10.3

No further relevant information available.

• 10.2. Chemical stability Stable when stored and used properly.

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3. Possibility of hazardous reactions No dangerous reactions known.
- 10.4. Conditions to avoid No further relevant information available.

• 10.5. Incompatible materials: No further relevant information available.

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• **10.6. Hazardous decomposition products:** No dangerous decomposition products known.

## **SECTION 11: Toxicological information**

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if inhaled.

· LD/LC<sub>50</sub> values relevant for classification:

#### 28182-81-2 aliphatic polyisocyanate, based on HDI

- Oral LD₅₀ >5,000 mg/kg (rat)
  - weibliche Ratte >2500 mg/kg
- Dermal  $LD_{50}$  >2,000 mg/kg (rabbit) (OECD 402)
  - >2,000 mg/kg (rat) (OECD 402)

Inhalative LC50 /4 h 15 mg/l (rat)

#### 98-94-2 N,N-Dimethylcyclohexylamine

Oral  $LD_{50}$  272 mg/kg (rat)

Dermal  $LD_{50}$  >400 mg/kg (rat)

Inhalative LC<sub>50</sub> /4 h 4.45 mg/l (rat)

· Skin corrosion/irritation Causes skin irritation.

· Serious eye damage/irritation Causes serious eye damage.

· Respiratory or skin sensitisation May cause an allergic skin 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 May cause respiratory irritation.
- 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.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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

#### 12.1. Toxicity

#### Aquatic toxicity:

28182-81-2 aliphatic polyisocyanate, based on HDI

EC<sub>50</sub> >100 mg / I / 48h (water flea - daphnia)

#### 98-94-2 N,N-Dimethylcyclohexylamine

EC<sub>50</sub> 75 mg / I / 48h (water flea - daphnia)

EC<sub>50</sub> >2 mg / I / 72h (algae)

IC<sub>50</sub> 22-46 mg / I / 72h (fish)

12.2. Persistence and degradability No further relevant information available.

• **12.3. Bioaccumulative potential** No further relevant information available.

**12.4. Mobility in soil** No further relevant information available.



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12.5. Results of PBT and vPvB assessment	(Contd. of pa		
• <b>PBT:</b> Not applicable.			
<b>vPvB:</b> Not applicable.			
12.6 Endocrine disrupting properties			
The product does not contain substances with endocrine disrupting properties. 12.6. Other adverse effects Behaviour in sewage processing plants:			
		Remark:	
		At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are	
not expected. Additional ecological information:			
General notes:			
Not known to be hazardous to water.			
Water hazard class 1 (German Regulation) (Se	elf-assessment): slightly hazardous for water		
<b>SECTION 13: Disposal consideration</b>	IS		
13.1. Waste treatment methods			
Recommendation			
	garbage. Do not allow product to reach sewage system.		
European waste catalogue			
08 04 09* waste adhesives and sealants contain	ning organic solvents or other hazardous substances		
08 05 01* waste isocyanates			
Uncleaned packaging:			
Recommendation:			
Non contaminated packagings may be recycled	a. isposal must be made according to official regulations.		
SECTION 14: Transport information			
14.1. UN number or ID number			
ADR, IMDG, IATA	Void		
14.2. UN proper shipping name			
DOT, ADR, IMDG, IATA 14.3. Transport hazard class(es)	Void		
Class	Void		
14.4. Packing group	Volu		
ADR, IMDG, IATA	Void		
· · · · · · · · · · · · · · · · · · ·	Not applicable.		
14.5. Environmental hazards:	Not applicable.		
14.5. Environmental hazards: 14.6. Special precautions for user			
14.5. Environmental hazards: 14.6. Special precautions for user			
14.5. Environmental hazards: 14.6. Special precautions for user 14.7. Maritime transport in bulk according to instruments	Not applicable.		
14.5. Environmental hazards: 14.6. Special precautions for user 14.7. Maritime transport in bulk according to instruments SECTION 15: Regulatory information	Not applicable.		

· Directive 2012/18/EU - Seveso-III:

· Named dangerous substances - ANNEX I None of the ingredients is included.

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	(Conta. of page o)
TIVE 2011/65/EU on the restriction of the use of certain hazardous substances	in electrical and
_ATION (EU) 2019/1148 I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpos	se of licensing
f the ingredients is listed. II - REPORTABLE EXPLOSIVES PRECURSORS	
tion (EC) No 111/2005 laying down rules for the monitoring of trade between t	he Community and
f the ingredients is listed.	
al regulations:	
regulations, limitations and prohibitive regulations: Restricted to professional us 2010/75/EU [g/L]: 0.0 g/l	
hemical safety assessment: A Chemical Safety Assessment has not been carried	out.
ION 16: Other information	
ormation is based on our present knowledge. However, this shall not constitute a gu	arantee for any
Int phrases Flammable liquid and vapour. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled.	
	Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation.

- H332 Harmful if inhaled.
- May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. H334
- H335
- Toxic to aquatic life with long lasting effects. H411

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Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from

time to time

Printing date 28.02.2023

Version-No. 2 (replaces version 1)

Revision: 28.02.2023

# Trade name / Article-No: KLEIBERIT 303.5 ME

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H412 Harmful to aquatic life with long lasting effects.	
EUH204 Contains isocyanates. May produce an allergic reaction.	
<ul> <li>Department issuing SDS: Safety &amp; Environment</li> </ul>	
· Version number of previous version: 1	
Abbreviations and acronyms:	t Concerning the
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreemen International Carriage of Dangerous Goods by Road)	t Concerning the
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of Chemicals	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
DNEL: Derived No-Effect Level (REACH)	
PNEC: Predicted No-Effect Concentration (REACH)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 3: Acute toxicity – Category 3	
Acute Tox. 1: Acute toxicity – Category 1 Acute Tox. 4: Acute toxicity – Category 4	
Skin Corr. 1B: Skin corrosion/irritation – Category 1B	
Skin Corresion/irritation – Category 2	
Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Resp. Sens. 1: Respiratory sensitisation – Category 1	
Skin Sens. 1: Skin sensitisation – Category 1	
STOT SE 3: Specific target organ toxicity (single exposure) – 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	