

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 8/20/2018 Revision date: 1/2/2023 Supersedes version of: 8/20/2018 Version: 2.0

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

1.1. Product identifier

Product form : Mixture

Name : Epoxy Primer 1K Trade name : EP PRIMER 311

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

1.2.1. Relevant identified uses

Use of the substance/mixture : The product is intended for professional use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NOVOL Sp. z o.o. Żabikowska 7/9 62-052 KOMORNIKI

Poland

T 0048618109800 - F 0048618109809

www.novol.com

E-mail address of competent person responsible for the SDS: dokumentacja@novol.com

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 2

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 1

Specific target organ toxicity – Single exposure, Category 3, Narcosis

Hazardous to the aquatic environment – Chronic Hazard, Category 3

H412

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







GHS02

GHS05

GHS07

Signal word (CLP)

Contains

: Danger

Hazard statements (CLP)

: xylene, butan-1-ol; n-butanol

: $\mbox{H225}$ - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H318 - Causes serious eye damage. H336 - May cause drowsiness or dizziness.

H412 - Harmful to aquatic life with long lasting effects.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P261 - Avoid breathing vapours, spray.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P312 - Call doctor if you feel unwell.

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
n-butyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 123-86-4 EC-No.: 204-658-1 EC Index-No.: 607-025-00-1 REACH-no: 01-2119485493- 29	< 21	Flam. Liq. 3, H226 STOT SE 3, H336
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791- 29	10 – 15	Flam. Liq. 3, H226
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] substance with national workplace exposure limit(s) (GB) (Note V)(Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379- 17	< 11	Carc. 2, H351
butan-1-ol; n-butanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 71-36-3 EC-No.: 200-751-6 EC Index-No.: 603-004-00-6 REACH-no: 01-2119484630-38	4 – 7	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
propan-2-ol; isopropyl alcohol; isopropanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 67-63-0 EC-No.: 200-661-7 EC Index-No.: 603-117-00-0 REACH-no: 01-2119457558- 25	< 7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methylpropan-1-ol; iso-butanol substance with national workplace exposure limit(s) (GB)	CAS-No.: 78-83-1 EC-No.: 201-148-0 EC Index-No.: 603-108-00-1 REACH-no: 01-2119484609- 23	< 4	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H336 STOT SE 3, H335
xylene substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit (Note C)	CAS-No.: 1330-20-7 EC-No.: 215-535-7 EC Index-No.: 601-022-00-9 REACH-no: 01-2119488216- 32	1 – 3	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
zinc oxide	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881- 32	< 1.8	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
phosphoric acid 75 % substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit (Note B)	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6	< 0.8	Not classified
ethylbenzene substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 100-41-4 EC-No.: 202-849-4 EC Index-No.: 601-023-00-4 REACH-no: 01-2119489370- 35	< 0.5	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Asp. Tox. 1, H304
phenol; carbolic acid; monohydroxybenzene; phenylalcohol substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2 REACH-no: 01-2119471329- 32	< 0.1	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Muta. 2, H341 STOT RE 2, H373

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
phosphoric acid 75 %	CAS-No.: 7664-38-2 EC-No.: 231-633-2 EC Index-No.: 015-011-00-6	(10 ≤C < 25) Skin Irrit. 2, H315 (10 ≤C < 25) Eye Irrit. 2, H319 (25 ≤C ≤ 100) Skin Corr. 1B, H314
phenol; carbolic acid; monohydroxybenzene; phenylalcohol	CAS-No.: 108-95-2 EC-No.: 203-632-7 EC Index-No.: 604-001-00-2 REACH-no: 01-2119471329-	(1 ≤C < 3) Skin Irrit. 2, H315 (1 ≤C < 3) Eye Irrit. 2, H319 (3 ≤C ≤ 100) Skin Corr. 1B, H314

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Note 10 : The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter \leq 10 μ m.

Note B: Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note V : If the substance is to be placed on the market as fibres (with diameter < $3 \mu m$, length > $5 \mu m$ and aspect ratio $\geq 3:1$) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : General information. Refer to section 11.

First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing.

First-aid measures after skin contact : After contact with skin, take off immediately all contaminated clothing, and wash

immediately with plenty of water and soap. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation continues, consult a doctor.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. Call a physician immediately. In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Call a physician immediately.

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

Symptoms/effects after inhalation : Vapours may cause drowsiness and dizziness.

Symptoms/effects after skin contact : Prolonged or repeated contact may cause skin to become dry.

Symptoms/effects after eye contact : May cause 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 : Dry chemical, CO2, alcohol-resistant foam or waterspray.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon monoxide. Other toxic gases.

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Remove ignition sources. Ensure that there is a suitable ventilation system. Avoid any direct

or indirect contact with ingredients released. Avoid contact with skin and eyes. Use personal

protective equipment as required. See Section 8.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. See Section 8.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

6.3. Methods and material for containment and cleaning up

For containment : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Mechanically

recover the product.

6.4. Reference to other sections

Disposal considerations. See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking. Use only outdoors or in a well-

ventilated area. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be

allowed out of the workplace. Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

xylene (1330-20-7)		
United Kingdom - Occupational Exposure Limits		
Local name	Xylene	
WEL TWA (OEL TWA) [1]	220 mg/m³ o-,m-,p- or mixed isomers	
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers	

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xylene (1330-20-7)	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
United Kingdom - Biological limit values	
Local name	Xylene, o-, m-, p- or mixed isomers
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-methoxy-1-methylethyl acetate (108-65-6)	
United Kingdom - Occupational Exposure Limits	
Local name	1-Methoxypropyl acetate
WEL TWA (OEL TWA) [1]	274 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	548 mg/m³
WEL STEL (OEL STEL) [ppm]	100 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
butan-1-ol; n-butanol (71-36-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Butan-1-ol
WEL STEL (OEL STEL)	154 mg/m³
WEL STEL (OEL STEL) [ppm]	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
2-methylpropan-1-ol; iso-butanol (78-83-1)	
United Kingdom - Occupational Exposure Limits	
Local name	2-Methylpropan-1-ol
WEL TWA (OEL TWA) [1]	154 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	231 mg/m³
WEL STEL (OEL STEL) [ppm]	75 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
phenol; carbolic acid; monohydroxybenzene;	phenylalcohol (108-95-2)
United Kingdom - Occupational Exposure Limits	
Local name	Phenol
WEL TWA (OEL TWA) [1]	7.8 mg/m³
WEL TWA (OEL TWA) [2]	2 ppm
WEL STEL (OEL STEL)	16 mg/m³

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phenol; carbolic acid; monohydroxyben	zene; phenylalcohol (108-95-2)
WEL STEL (OEL STEL) [ppm]	4 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
n-butyl acetate (123-86-4)	·
United Kingdom - Occupational Exposure Lin	nits
Local name	Butyl acetate
WEL TWA (OEL TWA) [1]	724 mg/m³
WEL TWA (OEL TWA) [2]	150 ppm
WEL STEL (OEL STEL)	966 mg/m³
WEL STEL (OEL STEL) [ppm]	200 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
propan-2-ol; isopropyl alcohol; isopropa	nol (67-63-0)
United Kingdom - Occupational Exposure Lin	nits
Local name	Propan-2-ol
WEL TWA (OEL TWA) [1]	999 mg/m³
WEL TWA (OEL TWA) [2]	400 ppm
WEL STEL (OEL STEL)	1250 mg/m³
WEL STEL (OEL STEL) [ppm]	500 ppm
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
phosphoric acid 75 % (7664-38-2)	
United Kingdom - Occupational Exposure Lin	nits
Local name	Orthophosphoric acid
WEL TWA (OEL TWA) [1]	1 mg/m³
WEL STEL (OEL STEL)	2 mg/m³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
ethylbenzene (100-41-4)	
United Kingdom - Occupational Exposure Lin	nits
Local name	Ethylbenzene
WEL TWA (OEL TWA) [1]	441 mg/m³
WEL TWA (OEL TWA) [2]	100 ppm
WEL STEL (OEL STEL)	552 mg/m³
WEL STEL (OEL STEL) [ppm]	125 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
titanium dioxide; [in powder form contai	ning 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
United Kingdom - Occupational Exposure Lin	nits
Local name	Titanium dioxide

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titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
WEL TWA (OEL TWA) [1]	4 mg/m³ respirable 10 mg/m³ total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

8.1.2. Recommended monitoring procedures

Monitoring methods	
Monitoring methods	EN 482. Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents.

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

DIVEL and I NEO		
xylene (1330-20-7)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	289 mg/m³	
Acute - local effects, inhalation	289 mg/m³	
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	77 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	174 mg/m³	
Acute - local effects, inhalation	174 mg/m³	
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	14.8 mg/m³	
Long-term - systemic effects, dermal	108 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.327 mg/l	
PNEC aqua (marine water)	0.327 mg/l	
PNEC aqua (intermittent, freshwater)	0.327 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	12.46 mg/kg dwt	
PNEC sediment (marine water)	12.46 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2.31 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	6.58 mg/l	
2-methoxy-1-methylethyl acetate (108-65-6)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	550 mg/m³	
Long-term - systemic effects, dermal	796 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	275 mg/m³	

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DNEL OME L (General population)	2-methoxy-1-methylethyl acetate (108-65-6)		
Long-term - systemic effects, inhalation 33 mg/m²	DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation 320 mg/kg bodyweight/day	Long-term - systemic effects,oral	36 mg/kg bodyweight/day	
Description	Long-term - systemic effects, inhalation	33 mg/m³	
PNEC aqua (freshwater)	Long-term - systemic effects, dermal	320 mg/kg bodyweight/day	
PNEC aqua (internituater)	Long-term - local effects, inhalation	33 mg/m³	
PNEC aqua (intermittent, freshwater) 0.0635 mg/l	PNEC (Water)		
PNEC (sediment) S.29 mg/kg dwt	PNEC aqua (freshwater)	0.635 mg/l	
PNEC (Sediment) 3.29 mg/kg dwt PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC (Soil) 0.29 mg/kg dwt PNEC (STP) 0.29 mg/kg dwt PNEC (STP) PNEC (STP) PNEC swage treatment plant 100 mg/l butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) DNEL/DMEL (General population) Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) 0.082 mg/l PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC sediment) 0.178 mg/kg dwt PNEC sediment (freshwater) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC soil 0.015 mg/kg dwt PNEC soil 0.015 mg/kg dwt PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (General population)	PNEC aqua (marine water)	0.0635 mg/l	
PNEC sediment (freshwater) 3.29 mg/kg dwt	PNEC aqua (intermittent, freshwater)	6.35 mg/l	
PNEC sediment (marine water) PNEC (Soil) PNEC soil 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC (Water) PNEC (water) PNEC aqua (freshwater) PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) 2.25 mg/l PNEC (Soil) PNEC (Soil) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (Sediment)		
PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 100 mg/l butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 55 mg/m² PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC aqua (intermittent, freshwater) 0.178 mg/kg dwt PNEC sediment (freshwater) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.015 mg/kg dwt PNEC sediment (marine water) 2.476 mg/l PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC sediment (freshwater)	3.29 mg/kg dwt	
PNEC soil 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC qua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC qua (intermittent, freshwater) 0.178 mg/kg dwt PNEC sediment (freshwater) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.015 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC swage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (General population)	PNEC sediment (marine water)	0.329 mg/kg dwt	
PNEC (STP) PNEC sewage treatment plant 100 mg/l butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC aqua (intermittent, freshwater) 0.178 mg/kg dwt PNEC sediment) PNEC sediment (freshwater) 0.178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) 2.25 mg/l PNEC sediment (marine water) 2.25 mg/l PNEC sediment (marine water) 2.25 mg/l PNEC sediment (parine water) 2.25 mg/l PNEC sediment (parine water) 2.25 mg/l PNEC sediment (marine water) 2.27 mg/kg dwt PNEC sediment (marine water) 2.476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (Soil)		
PNEC sewage treatment plant butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation JNEL/DMEL (General population) Long-term - systemic effects, oral Jong-term - local effects, inhalation Jong-term - local effects, inhalation	PNEC soil	0.29 mg/kg dwt	
butan-1-ol; n-butanol (71-36-3) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 3.125 mg/kg bodyweight/day Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC Quau (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC aqua (intermittent, freshwater) 0.178 mg/kg dwt PNEC sediment (freshwater) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.015 mg/kg dwt PNEC sediment (marine water) 2.476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (STP)		
DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 3.125 mg/kg bodyweight/day Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC sediment) PNEC sediment (freshwater) 0.178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC soil 0.015 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC sewage treatment plant	100 mg/l	
Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 3.125 mg/kg bodyweight/day Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC sediment) PNEC sediment (freshwater) 0.178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) 2476 mg/l PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	butan-1-ol; n-butanol (71-36-3)		
DNEL/DMEL (General population) Long-term - systemic effects, oral 3.125 mg/kg bodyweight/day Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC sediment (freshwater) 0.178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC soil 0.015 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	DNEL/DMEL (Workers)		
Long-term - systemic effects, oral Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC soil PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	Long-term - local effects, inhalation	310 mg/m³	
Long-term - local effects, inhalation 55 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.082 mg/l PNEC aqua (marine water) 0.0082 mg/l PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) 0.178 mg/kg dwt PNEC sediment (marine water) 0.0178 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC soil 0.015 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	DNEL/DMEL (General population)		
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	Long-term - systemic effects,oral	3.125 mg/kg bodyweight/day	
PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	Long-term - local effects, inhalation	55 mg/m³	
PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) 2.25 mg/l PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (Water)		
PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC aqua (freshwater)	0.082 mg/l	
PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation DNEL/DMEL (General population)	PNEC aqua (marine water)	0.0082 mg/l	
PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC aqua (intermittent, freshwater)	2.25 mg/l	
PNEC sediment (marine water) PNEC (Soil) PNEC soil 0.015 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (Sediment)		
PNEC (Soil) PNEC soil 0.015 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC sediment (freshwater)	0.178 mg/kg dwt	
PNEC soil PNEC (STP) PNEC sewage treatment plant 2476 mg/l 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC sediment (marine water)	0.0178 mg/kg dwt	
PNEC (STP) PNEC sewage treatment plant 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation DNEL/DMEL (General population)	PNEC (Soil)		
PNEC sewage treatment plant 2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC soil	0.015 mg/kg dwt	
2-methylpropan-1-ol; iso-butanol (78-83-1) DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC (STP)		
DNEL/DMEL (Workers) Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	PNEC sewage treatment plant	2476 mg/l	
Long-term - local effects, inhalation 310 mg/m³ DNEL/DMEL (General population)	2-methylpropan-1-ol; iso-butanol (78-83-1)		
DNEL/DMEL (General population)	DNEL/DMEL (Workers)		
	Long-term - local effects, inhalation	310 mg/m³	
Long-term - local effects, inhalation 55 mg/m³	DNEL/DMEL (General population)		
	Long-term - local effects, inhalation	55 mg/m³	

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2-methylpropan-1-ol; iso-butanol (78-83-1)			
PNEC (Water)			
PNEC aqua (freshwater)	0.4 mg/l		
PNEC aqua (marine water)	0.04 mg/l		
PNEC aqua (intermittent, freshwater)	11 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	1.56 mg/kg dwt		
PNEC sediment (marine water)	0.156 mg/kg dwt		
PNEC (Soil)			
PNEC soil	0.0765 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	10 mg/l		
zinc oxide (1314-13-2)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	5 mg/m³		
Long-term - local effects, inhalation	0.5 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	0.83 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	2.5 mg/m³		
Long-term - systemic effects, dermal	83 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	20.6 μg/l		
PNEC aqua (marine water)	6.1 µg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	117.8 mg/kg dwt		
PNEC sediment (marine water)	56.5 mg/kg dwt		
PNEC (Soil)			
PNEC soil	35.6 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	100 μg/l		
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (108-95-2)			
DNEL/DMEL (Workers)			
Acute - local effects, inhalation	16 mg/m³		
Long-term - systemic effects, dermal	1.23 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	8 mg/m³		
DNEL/DMEL (General population)	DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.4 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	1.32 mg/m³		

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phenol; carbolic acid; monohydroxybenzene; phenylalcohol (108-95-2)		
Long-term - systemic effects, dermal	0.4 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.0077 mg/l	
PNEC aqua (marine water)	0.00077 mg/l	
PNEC aqua (intermittent, freshwater)	0.031 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	0.0915 mg/kg dwt	
PNEC sediment (marine water)	0.00915 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.136 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	2.1 mg/l	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves

Hand protection					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Viton® II	6 (> 480 minutes)	0,7 mm		EN 374-3
Disposable gloves	Nitrile rubber (NBR)	2 (> 30 minutes)	0,4 mm		EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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Respiratory protection			
Device	Filter type	Condition	Standard
Gas mask with filter type	Filter A1/B1		EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Beige. Odour : characteristic. Odour threshold : $0.9 - 9 \text{ mg/m}^3 \text{ Xylene}$ Melting point : Not applicable Freezing point : Not available : 120 - 150 °C Boiling point Flammability : Not applicable Explosive properties : No data available. **Explosive limits** : Not available Lower explosion limit : 1.1 vol % Xylene Upper explosion limit : 8 vol % Xylene : 13 °C Isopropanol Flash point Auto-ignition temperature : ≈ 300 °C Decomposition temperature : Not available

: Not available

Viscosity, kinematic : 180 s : Slightly soluble. Solubility Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : 6.6 hPa Butanol Vapour pressure at 50°C : Not available Density : 1.2 g/cm³ : Not available Relative density Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

рΗ

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions of use.

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10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from sources of ignition. Prevent build-up of electrostatic charges (e.g, by grounding). Protect from sunlight. Avoid high temperatures.

10.5. Incompatible materials

No contact with: strong acids, strong bases and strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Carbon monoxide. Other toxic gases.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified. (Based on available data, the classification criteria are not met)

Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : Not classified. (Based on available data, the classification criteria are not met)

xylene (1330-20-7)		
LD50 oral rat	3523 mg/kg rat	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LC50 Inhalation - Rat	27124 mg/l	
2-methoxy-1-methylethyl acetate (108-65-6)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
butan-1-ol; n-butanol (71-36-3)		
LD50 oral rat	2292 mg/kg Source: ECHA	
LD50 dermal rabbit	3430 mg/kg Source: ECHA	
2-methylpropan-1-ol; iso-butanol (78-83-1)		
LD50 oral rat	2460 mg/kg Source: ECHA	
LD50 dermal rabbit	2460 mg/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	19.6 mg/l Source: ECHA	
zinc oxide (1314-13-2)		
LD50 oral rat	> 5000 mg/kg Source: ECHA	
LD50 dermal rat	> 2000 mg/kg Source: ECHA	
phenol; carbolic acid; monohydroxybenzene; phenylalcohol (108-95-2)		
LD50 oral rat	340 mg/kg Source: ECHA	
LD50 dermal rabbit	660 mg/kg Source: ECHA	
n-butyl acetate (123-86-4)		
LD50 oral rat	12.2 ml/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	> 4.9 mg/l Source: ECHA	

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propan-2-ol; isopropyl alcohol; isopropanol (57-63-0)	
LD50 oral rat	5840 mg/kg Source: ECHA	
LD50 dermal rabbit	12800 mg/kg Source: ECHA	
ethylbenzene (100-41-4)		
LD50 oral rat	≈ 3500 mg/kg bodyweight Animal: rat	
LD50 dermal rabbit	> 20000 mg/kg Source: ECHA	
LC50 Inhalation - Rat [ppm]	4000 ppm Source: ECHA, Harmonized classification of EU CLP	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
LC50 Inhalation - Rat (Dust/Mist)	> 6.82 mg/l Source: ECHA	
Skin corrosion/irritation :	Causes skin irritation.	
zinc oxide (1314-13-2)		
рН	6.95 Source: HSDB	
phenol; carbolic acid; monohydroxybenzene;	phenylalcohol (108-95-2)	
рН	6 Source: HSDB	
n-butyl acetate (123-86-4)		
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
рН	7 Source: ECHA	
Serious eye damage/irritation :	Causes serious eye damage.	
zinc oxide (1314-13-2)		
рН	6.95 Source: HSDB	
phenol; carbolic acid; monohydroxybenzene;	phenylalcohol (108-95-2)	
рН	6 Source: HSDB	
n-butyl acetate (123-86-4)		
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
рН	7 Source: ECHA	
Respiratory or skin sensitisation :	Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)	
	Not classified (Based on available data, the classification criteria are not met)	
phenol; carbolic acid; monohydroxybenzene;	· · · · · · · · · · · · · · · · · · ·	
IARC group	3 - Not classifiable	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)	
IARC group	3 - Not classifiable	
ethylbenzene (100-41-4)		
IARC group	2B - Possibly carcinogenic to humans	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)	

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STOT-single exposure :	May cause drowsiness or dizziness.		
butan-1-ol; n-butanol (71-36-3)			
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.		
2-methylpropan-1-ol; iso-butanol (78-83-1)			
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.		
n-butyl acetate (123-86-4)			
STOT-single exposure	May cause drowsiness or dizziness.		
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
STOT-single exposure	May cause drowsiness or dizziness.		
STOT-repeated exposure :	Not classified (Based on available data, the classification criteria are not met)		
xylene (1330-20-7)			
LOAEL (oral, rat, 90 days)	150 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents), Guideline: EPA OPP 82-1 (90-Day Oral Toxicity)		
2-methoxy-1-methylethyl acetate (108-65-6)			
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)		
butan-1-ol; n-butanol (71-36-3)			
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat		
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat		
2-methylpropan-1-ol; iso-butanol (78-83-1)			
NOAEL (oral, rat, 90 days)	> 1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
zinc oxide (1314-13-2)			
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)		
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)		
phenol; carbolic acid; monohydroxybenzene;	phenylalcohol (108-95-2)		
LOAEL (dermal, rat/rabbit, 90 days)	260 mg/kg bodyweight Animal: rabbit		
NOAEL (dermal, rat/rabbit, 90 days)	130 mg/kg bodyweight Animal: rabbit		
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.		
n-butyl acetate (123-86-4)			
LOAEL (oral, rat, 90 days)	500 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)		
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicity in Rodents)		

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phosphoric acid 75 % (7664-38-2)		
250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)		
75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)		
May cause damage to organs through prolonged or repeated exposure.		
Not classified (Based on available data, the classification criteria are not met)		
180 s		
butan-1-ol; n-butanol (71-36-3)		
3.641 mm ² /s		
2-methylpropan-1-ol; iso-butanol (78-83-1)		
38702.757 mm²/s		
n-butyl acetate (123-86-4)		
0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'		
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
2.658 mm²/s		

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short–term

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Harmful to aquatic life with long lasting effects.

: Not classified (Based on available data, the classification criteria are not met)

xylene (1330-20-7) LC50 - Fish [1] 2.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) EC50 - Crustacea [1] > 3.4 mg/l Test organisms (species): Ceriodaphnia dubia NOEC chronic fish > 1.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '56 d' 2-methoxy-1-methylethyl acetate (108-65-6) LC50 - Fish [1] > 100 mg/l Test organisms (species): Oryzias latipes EC50 - Crustacea [1] > 500 mg/l Test organisms (species): Daphnia magna EC50 72h - Algae [1] > 1000 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) NOEC (chronic) ≥ 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d' NOEC chronic fish 47.5 mg/l Test organisms (species): Oryzias latipes Duration: '14 d'

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butan-1-ol; n-butanol (71-36-3)		
LC50 - Fish [1]	1376 mg/l Source: ECHA	
EC50 - Crustacea [1]	1983 mg/l Source: ECHA	
EC50 96h - Algae [1]	225 mg/l Source: ECHA	
NOEC (chronic)	4.1 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
2-methylpropan-1-ol; iso-butanol (78-83-1)		
LC50 - Fish [1]	1430 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	1100 mg/l Test organisms (species): Daphnia pulex	
EC50 72h - Algae [1]	593 mg/l Source: ECHA	
NOEC (chronic)	20 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
phenol; carbolic acid; monohydroxybenzene;	phenylalcohol (108-95-2)	
LC50 - Fish [1]	8.9 mg/l Source: ECHA	
EC50 - Crustacea [1]	3.1 mg/l Test organisms (species): Ceriodaphnia dubia	
EC50 72h - Algae [1]	180 mg/l Test organisms (species): Dunaliella tertiolecta	
EC50 72h - Algae [2]	217.6 mg/l Test organisms (species): Dunaliella tertiolecta	
EC50 96h - Algae [1]	61.1 mg/l Source: ECHA	
NOEC (chronic)	0.16 mg/l Test organisms (species): Daphnia magna Duration: '16 d'	
NOEC chronic fish	0.077 mg/l Test organisms (species): other: Duration: '60 d'	
n-butyl acetate (123-86-4)		
LC50 - Fish [1]	18 mg/l Source: ECHA	
EC50 - Crustacea [1]	44 mg/l Source: ECHA	
EC50 - Other aquatic organisms [1]	32 mg/l Test organisms (species): Artemia salina	
EC50 72h - Algae [1]	674.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	246 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
LOEC (chronic)	47.6 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
NOEC (chronic)	23.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
LC50 - Fish [1]	10000 mg/l Test organisms (species): Pimephales promelas	
LC50 - Fish [2]	9640 mg/l Test organisms (species): Pimephales promelas	
phosphoric acid 75 % (7664-38-2)		
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
ethylbenzene (100-41-4)		
LC50 - Fish [1]	5.1 mg/l Test organisms (species): Menidia menidia	
EC50 72h - Algae [1]	5.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	4.9 mg/l Test organisms (species): Skeletonema costatum	

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ethylbenzene (100-41-4)		
EC50 96h - Algae [1]	3.6 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 96h - Algae [2]	7.7 mg/l Test organisms (species): Skeletonema costatum	
LOEC (chronic)	1.7 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'	
NOEC (chronic)	0.96 mg/l Test organisms (species): Ceriodaphnia dubia Duration: '7 d'	
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)	
LC50 - Fish [1]	> 100 mg/l	
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA	

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

butan-1-ol; n-butanol (71-36-3)			
Partition coefficient n-octanol/water (Log Pow)	0.9 Source: HSDB		
2-methylpropan-1-ol; iso-butanol (78-83-1)			
Partition coefficient n-octanol/water (Log Pow)	0.8 Source: ChemIDPlus		
phenol; carbolic acid; monohydroxybenzene;	phenol; carbolic acid; monohydroxybenzene; phenylalcohol (108-95-2)		
Partition coefficient n-octanol/water (Log Pow)	1.47 Source: ECHA		
n-butyl acetate (123-86-4)			
Partition coefficient n-octanol/water (Log Pow)	1.78 Source: HSDB		
propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)			
Partition coefficient n-octanol/water (Log Pow)	0.05 Source: ICSC		
ethylbenzene (100-41-4)			
Partition coefficient n-octanol/water (Log Pow)	3.15 Source: HSDB		

12.4. Mobility in soil

phenol; carbolic acid; monohydroxybenzene; phenylalcohol (108-95-2)	
Mobility in soil	14 – 73 Source: ECHA

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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Waste treatment methods

Additional information

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations

: Do not discharge into drains.

Product/Packaging disposal recommendations

: This material and its container must be disposed of as hazardous waste. Do not dispose of with domestic waste. After cleaning, recycle or dispose of at an authorised site.

: Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1263	UN 1263	UN 1263
14.2. UN proper shipping name		
PAINT	PAINT	Paint
Transport document description		
UN 1263 PAINT, 3, II, (D/E)	UN 1263 PAINT, 3, II (13°C c.c.)	UN 1263 Paint, 3, II
14.3. Transport hazard class(es)		
3	3	3
3	3	3
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Tunnel restriction code (ADR) : D/E

EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 163, 223, 367, 955

Limited quantities (IMDG) : 5 L
Special packing provisions (IMDG) : PP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A

Air transport

No data available

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14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:

Abbreviations and acronyms:		
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	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	

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Abbreviations and acronyms:			
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Data sources : ECHA (European Chemicals Agency).

Training advice : Handle in accordance with good industrial hygiene and safety procedures.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	

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Full text of H- and EUH-statements:				
Asp. Tox. 1	Aspiration hazard, Category 1			
Carc. 2	Carcinogenicity, Category 2			
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
Flam. Liq. 2	Flammable liquids, Category 2			
Flam. Liq. 3	Flammable liquids, Category 3			
H225	Highly flammable liquid and vapour.			
H226	Flammable liquid and vapour.			
H301	Toxic if swallowed.			
H302	Harmful if swallowed.			
H304	May be fatal if swallowed and enters airways.			
H311	Toxic in contact with skin.			
H312	Harmful in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H331	Toxic if inhaled.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H336	May cause drowsiness or dizziness.			
H341	Suspected of causing genetic defects.			
H351	Suspected of causing cancer.			
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.			
H412	Harmful to aquatic life with long lasting effects.			
Muta. 2	Germ cell mutagenicity, Category 2			
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2			
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:					
Flam. Liq. 2	H225	On basis of test data			
Skin Irrit. 2	H315	Calculation method			
Eye Dam. 1	H318	Calculation method			
STOT SE 3	H336	Calculation method			

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Aquatic Chronic 3	H412	Calculation method		

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.