

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 12/6/2021 Revision date: 4/4/2023 Version: 2.00

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

#### 1.1. Product identifier

: Mixture : HYBRID ANTI-CORROSION HARDENER FOR HYBRID EPOXY PRIMER : HYBRID ANTI-CORROSION HARDENER
nce or mixture and uses advised against
: The product is intended for professional use
ta sheet
r the SDS : <u>dokumentacja@novol.com</u>
: 112
ture
1272/2008 [CLP]
H226 H315 H318 H317

#### 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)

Signal word (CLP)	
Contains	
Hazard statements (CLP)	

Precautionary statements (CLP)



: Danger

:

- : xylene; butan-1-ol; n-butanol; Amines, polyethylenepoly-, triethylenetetramine fraction
- : H226 Flammable liquid and vapour.
  - H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- : P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing vapours, spray.

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P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor.

#### 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]
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with fatty acids, C16-18 and C18-unsatd., branched and linear and triethylenetetramine (Polymer)	CAS-No.: 157707-72-7 EC-No.: 500-381-8	< 60	Eye Dam. 1, H318
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	< 50	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
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	< 9	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
Amines, polyethylenepoly-, triethylenetetramine fraction	CAS-No.: 90640-67-8 EC-No.: 292-588-2 REACH-no: 01-2119487919- 13	0.1 – 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
N-(3-(trimethoxysilyl)propyl)ethylenediamine	CAS-No.: 1760-24-3 EC-No.: 217-164-6 REACH-no: 01-2119970215- 39	0.8 – 1	Eye Dam. 1, H318 Skin Sens. 1, H317
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro-3- methyl-5-oxo-1-phenyl-1H-pyrazol-4- yl)azo]benzoato(2-)]chromate(1-)	CAS-No.: 85408-46-4 EC-No.: 287-007-4 REACH-no:	< 1	Skin Sens. 1A, H317 Aquatic Chronic 2, H411
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307- 44	< 0.003	Flam. Liq. 2, H225 Acute Tox. 3 (Inhalation), H331 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Oral), H301 STOT SE 1, H370

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
methanol	CAS-No.: 67-56-1 EC-No.: 200-659-6 EC Index-No.: 603-001-00-X REACH-no: 01-2119433307- 44	( 3 ≤C < 10) STOT SE 2, H371 ( 10 ≤C ≤ 100) STOT SE 1, H370

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. 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 Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>Vapours may cause drowsiness and dizziness.</li> <li>Prolonged or repeated contact may cause skin to become dry.</li> <li>May cause eye irritation.</li> </ul>	

#### 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 Unsuitable extinguishing media	<ul><li>Dry chemical, CO2, alcohol-resistant foam or waterspray.</li><li>Do not use a heavy water stream.</li></ul>		
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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<b>SECTION 6: Accidental release</b>	measures
6.1. Personal precautions, protect	ive 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 Hygiene measures	<ul> <li>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.</li> <li>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.</li> </ul>	
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.
Storage temperature	: 5 – 35 °C

#### 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)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m <sup>3</sup>
IOEL STEL [ppm]	100 ppm
Remark	Skin

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xylene (1330-20-7)	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Xylene
WEL TWA (OEL TWA) [1]	220 mg/m <sup>3</sup> 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/m <sup>3</sup> o-,m-,p- or mixed isomers
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers
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
butan-1-ol; n-butanol (71-36-3)	
United Kingdom - Occupational Exposure Limits	
Local name	Butan-1-ol
WEL STEL (OEL STEL)	154 mg/m <sup>3</sup>
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
methanol (67-56-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Methanol
IOEL TWA	260 mg/m <sup>3</sup>
IOEL TWA [ppm]	200 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
United Kingdom - Occupational Exposure Limits	
Local name	Methanol
WEL TWA (OEL TWA) [1]	266 mg/m <sup>3</sup>
WEL TWA (OEL TWA) [2]	200 ppm
WEL STEL (OEL STEL)	333 mg/m <sup>3</sup>
WEL STEL (OEL STEL) [ppm]	250 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

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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

xylene (1330-20-7)	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	289 mg/m <sup>3</sup>
Acute - local effects, inhalation	289 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	77 mg/m <sup>3</sup>
DNEL/DMEL (General population)	•
Acute - systemic effects, inhalation	174 mg/m <sup>3</sup>
Acute - local effects, inhalation	174 mg/m <sup>3</sup>
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14.8 mg/m <sup>3</sup>
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
butan-1-ol; n-butanol (71-36-3)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	310 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects,oral	3.125 mg/kg bodyweight/day
Long-term - local effects, inhalation	55 mg/m <sup>3</sup>
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

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butan-1-ol; n-butanol (71-36-3)	
PNEC (Sediment)	
PNEC sediment (freshwater)	0.178 mg/kg dwt
PNEC sediment (marine water)	0.0178 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.015 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2476 mg/l
N-(3-(trimethoxysilyl)propyl)ethylenedia	mine (1760-24-3)
PNEC (Water)	
PNEC aqua (freshwater)	0.062 mg/l
PNEC aqua (marine water)	0.0062 mg/l
PNEC aqua (intermittent, freshwater)	0.62 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.22 mg/kg dwt
PNEC sediment (marine water)	0.022 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0085 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	25 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

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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:**

Г

In case of insufficient ventilation, wear suitable respiratory equipment

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	: light yellow.
Odour	: characteristic. Amine-like.
Odour threshold	: 0.9 – 9 mg/m <sup>3</sup> Xylene
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 119 – 142 °C
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
Flash point	: 25 °C
Auto-ignition temperature	: 355 °C
Decomposition temperature	: Not available
рН	: Not available
Viscosity, kinematic	: Not available
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 9 hPa Xylene
Vapour pressure at 50°C	: Not available
Density	: 0.9 g/cm <sup>3</sup>
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

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#### **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.

#### 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) : Acute toxicity (dermal) :	Not classified (Based on available data, the classification criteria are not met) 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)
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
butan-1-ol; n-butanol (71-36-3)	1
LD50 oral rat	2292 mg/kg Source: ECHA
LD50 dermal rabbit	3430 mg/kg Source: ECHA
Amines, polyethylenepoly-, triethylenetetram	ine fraction (90640-67-8)
LD50 oral rat	1591.4 mg/kg Source: ECHA Chem
LD50 dermal rat	1465.3 mg/kg Source: ECHA Chem
N-(3-(trimethoxysilyl)propyl)ethylenediamine	(1760-24-3)
LD50 oral rat	2400 mg/kg Source: OECD 401, EEC 67/548 1967
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	1.49 – 2.44 mg/l air Animal: rat, Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihydro (85408-46-4)	-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
LD50 oral rat	> 6000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

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Amines, polyethylenepoly-, triethylenetetrami pH Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity :	13.2 Source: ECHA Chem Causes serious eye damage.
Serious eye damage/irritation       :         Amines, polyethylenepoly-, triethylenetetrami         pH         Respiratory or skin sensitisation       :         Germ cell mutagenicity       :         Carcinogenicity       :         Reproductive toxicity       :	Causes serious eye damage.         ine fraction (90640-67-8)         13.2 Source: ECHA Chem
Amines, polyethylenepoly-, triethylenetetrami pH Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity :	ine fraction (90640-67-8) 13.2 Source: ECHA Chem
pH Respiratory or skin sensitisation : Germ cell mutagenicity : Carcinogenicity : Reproductive toxicity :	13.2 Source: ECHA Chem
Respiratory or skin sensitisation:Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:	
Germ cell mutagenicity:Carcinogenicity:Reproductive toxicity:	May cause an allergic skin reaction.
Carcinogenicity : Reproductive toxicity :	
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
	Not classified (Based on available data, the classification criteria are not met)
	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)
butan-1-ol; n-butanol (71-36-3)	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.
methanol (67-56-1)	
STOT-single exposure	Causes damage to organs.
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)
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
N-(3-(trimethoxysilyl)propyl)ethylenediamine	(1760-24-3)
NOAEL (oral, rat, 90 days)	≥ 500 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)	≥ 1545 mg/kg bodyweight Animal: rat
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)
butan-1-ol; n-butanol (71-36-3)	
Viscosity, kinematic	3.641 mm²/s
N-(3-(trimethoxysilyl)propyl)ethylenediamine	(1760-24-3)
Viscosity, kinematic	3.1 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /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	: Not classified (Based on available data, the classification criteria are not met)
(acute)	
Hazardous to the aquatic environment, long-term	: Not classified (Based on available data, the classification criteria are not met)
(chronic)	
Not rapidly degradable	

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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'
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'
Amines, polyethylenepoly-, triethylenetetr	amine fraction (90640-67-8)
LC50 - Fish [1]	330 mg/l Source: ECHA Chem
EC50 - Crustacea [1]	31.1 mg/l Source: ECHA Chem
EC50 72h - Algae [1]	20 mg/l Source: ECHA Chem
N-(3-(trimethoxysilyl)propyl)ethylenediam	ine (1760-24-3)
LC50 - Fish [1]	597 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	81 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	126 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	352 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
ErC50 algae	8.8 mg/l Source: OECD Guide-line 201,SIDS
Amines, C12-14-tert-alkyl, bis[2-[(4,5-dihyd (85408-46-4)	dro-3-methyl-5-oxo-1-phenyl-1H-pyrazol-4-yl)azo]benzoato(2-)]chromate(1-)
LC50 - Fish [1]	10 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

### 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	
Amines, polyethylenepoly-, triethylenetetram	ine fraction (90640-67-8)	
Partition coefficient n-octanol/water (Log Pow)	2.65 Source: ECHA Chem	
N-(3-(trimethoxysilyl)propyl)ethylenediamine (1760-24-3)		
Partition coefficient n-octanol/water (Log Pow)	-1.67	

### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

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## 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.
Waste treatment methods	: 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.
Additional information	: Flammable vapours may accumulate in the container.
European List of Waste (LoW) code	: 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances
	15 01 10* - packaging containing residues of or contaminated by dangerous substances

## **SECTION 14: Transport information**

ADR	IMDG	ΙΑΤΑ
14.1. UN number or ID number		
UN 1866	UN 1866	UN 1866
14.2. UN proper shipping name		
RESIN SOLUTION	RESIN SOLUTION	Resin solution
Transport document description		
UN 1866 RESIN SOLUTION, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1866 RESIN SOLUTION, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (25°C c.c.)	UN 1866 Resin solution, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
3	3	3
14.4. Packing group		
Ш	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes
No supplementary information available		
14.6. Special precautions for user		
Overland transport		
Classification code (ADR) Limited quantities (ADR)	: F1 : 5l	

Special packing provisions (ADR)

: PP1

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		_
Mixed packing provisions (ADR) Transport category (ADR) Special provisions for carriage - Packages (ADR)	: MP19 : 3 : V12	
Tunnel restriction code (ADR) EAC code	: D/E : •3Y	
Transport by sea Special provisions (IMDG) Limited quantities (IMDG) Special packing provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG)	: 223, 95 : 5 L : PP1 : F-E : S-E : A	55

#### Air transport

No data available

#### 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

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### **SECTION 16: Other information**

#### Indication of changes:

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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		
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		

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Data sources

Training advice

: ECHA (European Chemicals Agency).

: 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 Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2			
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
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.			
H311	Toxic in contact with skin.			
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.			
H331	Toxic if inhaled.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H336	May cause drowsiness or dizziness.			
H370	Causes damage to organs.			
H371	May cause damage to organs.			
H411	Toxic to aquatic life with long lasting effects.			
H412	Harmful to aquatic life with long lasting effects.			
Skin Corr. 1	Skin corrosion/irritation, Category 1			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
Skin Sens. 1	Skin sensitisation, Category 1			
Skin Sens. 1A	Skin sensitisation, category 1A			
STOT SE 1	Specific target organ toxicity – single exposure, Category 1			
STOT SE 2	Specific target organ toxicity – Single exposure, Category 2			
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis			

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Flam. Liq. 3	H226	On basis of test data	
Skin Irrit. 2	H315	Calculation method	
Eye Dam. 1	H318	Calculation method	
Skin Sens. 1	H317	Calculation method	

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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.