

## Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 4/5/2012 Revision date: 1/2/2023 Supersedes version of: 4/15/2022 Version: 7.00

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

#### 1.1. Product identifier

Product form Name Trade name	: Mixture : Direct acrylic-polyurethane topcoat - gloss : NOVORUST 2080 DTM COLOR	
1.2. Relevant identified uses of the substar	nce or mixture and uses advised against	
<ul><li>1.2.1. Relevant identified uses</li><li>Use of the substance/mixture</li><li>1.2.2. Uses advised against</li></ul>	: The product is intended for professional use	
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 <u>www.novol.com</u> 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 3	H226	
Skin corrosion/irritation, Category 2	H315	
Skin sensitisation, Category 1	H317	
Hazardous to the aquatic environment – Chronic Hazard, Category 2	H411	
Full text of H- and EUH-statements: see section 16		

#### Adverse physicochemical, human health and environmental effects

No additional information available

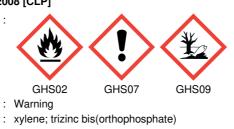
### 2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP)
Contains
Hazard statements (CLP)

Precautionary statements (CLP)



- : H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.
- : 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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	<ul> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection, face protection.</li> <li>P312 Cell dester if you feel unwell.</li> </ul>
EUH-statements	<ul> <li>P312 - Call doctor if you feel unwell.</li> <li>EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.</li> </ul>

### 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]
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	< 15	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
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	< 15	Carc. 2, H351
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	< 12	Flam. Liq. 3, H226 STOT SE 3, H336
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 EC Index-No.: 030-011-00-6	< 6	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
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	< 5	Flam. Liq. 3, H226
aluminium powder (stabilised) substance with national workplace exposure limit(s) (GB) (Note T)	CAS-No.: 7429-90-5 EC-No.: 231-072-3 EC Index-No.: 013-002-00-1	0 – 2.5	Water-react. 2, H261 Flam. Sol. 1, H228

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
reaction mass of $\alpha$ -3-(3-(2H-benzotriazol-2-yl)-5-tert- butyl-4-hydroxyphenyl)propionyl- $\omega$ - hydroxypoly(oxyethylene) and $\alpha$ -3-(3-(2H- benzotriazol-2-yl)-5-tert-butyl-4- hydroxyphenyl)propionyl- $\omega$ -3-(3-(2H-benzotriazol-2- yl)-5-tert-butyl-4- hydroxyphenyl)propionyloxypoly(oxyethylene)	CAS-No.: 104810-48- 2+104810-47-1+ 25322-68-3 EC-No.: 400-830-7 EC Index-No.: 607-176-00-3 REACH-no: 01-2119472279- 28	≤ 1	Skin Sens. 1, H317 Aquatic Chronic 2, H411
zinc oxide	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881- 32	< 0.3	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl- 4-piperidyl sebacate	CAS-No.: 1065336-91-5 EC-No.: 915-687-0 REACH-no: 01-2119491304- 40	< 0.1	Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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  $\mu$ m.

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 T - This substance may be marketed in a form which does not have the physical hazards as indicated by the classification in the entry in Part 3. If the results of the relevant method or methods in accordance with Part 2 of Annex I of this Regulation show that the specific form of substance marketed does not exhibit this physical property or these physical hazards, the substance shall be classified in accordance with the result or results of this test or these tests. Relevant information, including reference to the relevant test method(s) shall be included in the safety data sheet. 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 ≥ 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 eff	ects, both acute and delayed
Symptoms/effects after inhalation	<ul> <li>Vapours may cause drowsiness and dizziness.</li> <li>Prolonged or repeated contact may cause skin to become dry.</li> </ul>

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

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

Treat symptomatically.

Symptoms/effects after eye contact : May cause eye irritation.

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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 subs	stance 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.
SECTION 6: Accidental release measure	ures
6.1. Personal precautions, protective equi	ipment 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 direc or indirect contact with ingredients released. Avoid contact with skin and eyes. Use persona 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 e sewage system, even in small quantities.	enter into surface water or drains. Do not allow product to reach ground water, water bodies or
6.3. Methods and material for containment	it 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</li> </ul>
	wash hands after handling the product.
7.2. Conditions for safe storage, including	
Technical measures Storage conditions	<ul> <li>Ground/bond container and receiving equipment.</li> <li>Store in a well-ventilated place. Keep cool. Keep container tightly closed.</li> </ul>

## 7.3. Specific end use(s)

Storage temperature

No additional information available

: 5-35 °C

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## 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	
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	
n-butyl acetate (123-86-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Butyl acetate	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	723 mg/m <sup>3</sup>	
IOEL STEL [ppm]	150 ppm	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831	
United Kingdom - Occupational Exposure Limits	·	
Local name	Butyl acetate	
WEL TWA (OEL TWA) [1]	724 mg/m <sup>3</sup>	
WEL TWA (OEL TWA) [2]	150 ppm	
WEL STEL (OEL STEL)	966 mg/m <sup>3</sup>	
WEL STEL (OEL STEL) [ppm]	200 ppm	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

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2-methoxy-1-methylethyl acetate (108-65-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Methoxy-1-methylethylacetate	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	550 mg/m <sup>3</sup>	
IOEL STEL [ppm]	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	1-Methoxypropyl acetate	
WEL TWA (OEL TWA) [1]	274 mg/m <sup>3</sup>	
WEL TWA (OEL TWA) [2]	50 ppm	
WEL STEL (OEL STEL)	548 mg/m <sup>3</sup>	
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	
aluminium powder (stabilised) (7429-90-5)		
United Kingdom - Occupational Exposure Limits		
Local name	Aluminium	
WEL TWA (OEL TWA) [1]	2 mg/m <sup>3</sup> alkyl compounds 2 mg/m <sup>3</sup> salts, soluble 10 mg/m <sup>3</sup> metal, inhalable dust 4 mg/m <sup>3</sup> metal, respirable dust	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
United Kingdom - Occupational Exposure Limits		
Local name	Titanium dioxide	
WEL TWA (OEL TWA) [1]	4 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup> total inhalable	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
8.1.2. Recommended monitoring procedures		

Monitoring methods	
5	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>

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xylene (1330-20-7)	
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/m³
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
n-butyl acetate (123-86-4)	
PNEC (Water)	
PNEC aqua (freshwater)	0.18 mg/l
PNEC aqua (marine water)	0.018 mg/l
PNEC aqua (intermittent, freshwater)	0.36 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.981 mg/kg dwt
PNEC sediment (marine water)	0.0981 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.0903 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	35.6 mg/l
2-methoxy-1-methylethyl acetate (108-65-6)	
DNEL/DMEL (Workers)	
DNEL/DMEL (Workers)	
DNEL/DMEL (Workers)           Acute - local effects, inhalation	550 mg/m³
	550 mg/m³ 796 mg/kg bodyweight/day

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2-methoxy-1-methylethyl acetate (108-65-6)		
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	36 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	33 mg/m <sup>3</sup>	
Long-term - systemic effects, dermal	320 mg/kg bodyweight/day	
Long-term - local effects, inhalation	33 mg/m <sup>3</sup>	
PNEC (Water)	·	
PNEC aqua (freshwater)	0.635 mg/l	
PNEC aqua (marine water)	0.0635 mg/l	
PNEC aqua (intermittent, freshwater)	6.35 mg/l	
PNEC (Sediment)	PNEC (Sediment)	
PNEC sediment (freshwater)	3.29 mg/kg dwt	
PNEC sediment (marine water)	0.329 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.29 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	100 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

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### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

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 Colour Odour Odour threshold Melting point Freezing point Boiling point Flammability	<ul> <li>Liquid</li> <li>Colourless.</li> <li>characteristic.</li> <li>0.9 – 9 mg/m<sup>3</sup> Xylene</li> <li>Not applicable</li> <li>Not available</li> <li>120 – 140 °C</li> <li>Not applicable</li> </ul>
Explosive properties	: No data available.
Explosive limits	: Not available
Lower explosion limit	: 1.1 vol % Xylene
Upper explosion limit	: 8 vol % Xylene
Flash point	: 24 °C
Auto-ignition temperature	: 415 °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
Vapour pressure at 50°C	: Not available
Density	: ≈ 1.3 g/cm³
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

aluminium powder (stabilised) (7429-90-5)	
Vapour pressure	1 Temp.: 1284 °C

titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)		
Boiling point	3000 °C Source: ECHA	
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) Acute toxicity (inhalation)	<ul> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>Not classified. (Based on available data, the classification criteria are not met)</li> </ul>
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
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
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)
trizinc bis(orthophosphate) (7779-90-0)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 5700 mg/m <sup>3</sup> Source: ECHA
zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg Source: ECHA
LD50 dermal rat	> 2000 mg/kg Source: ECHA

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Reaction mass of Bis(1,2,2,6,6-pentamethyl- (1065336-91-5)	1-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
LD50 oral rat	3230 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), 95% CL: 2615 - 4247
LD50 dermal rat	> 3170 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
aluminium powder (stabilised) (7429-90-5)	
LD50 oral rat	> 15900 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LC50 Inhalation - Rat	> 0.888 mg/l air Animal: rat, Animal sex: male, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:
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.
n-butyl acetate (123-86-4)	
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L
zinc oxide (1314-13-2)	
рН	6.95 Source: HSDB
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
pH	7 Source: ECHA
Serious eye damage/irritation :	Not classified (Based on available data, the classification criteria are not met)
n-butyl acetate (123-86-4)	
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L
zinc oxide (1314-13-2)	
рН	6.95 Source: HSDB
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter ≤ 10 μm] (13463-67-7)
pH	7 Source: ECHA
Respiratory or skin sensitisation :	May cause an allergic skin reaction.
Germ cell mutagenicity :	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity :	Not classified (Based on available data, the classification criteria are not met)
titanium dioxide; [in powder form containing	1 % or more of particles with aerodynamic diameter $\leq$ 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)
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)
n-butyl acetate (123-86-4)	
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)

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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)
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)
trizinc bis(orthophosphate) (7779-90-0)	
LOAEL (oral, rat, 90 days)	53.8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	31.52 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)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4 (1065336-91-5)	I-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28- Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))
aluminium powder (stabilised) (7429-90-5)	
LOAEC (inhalation, rat,dust/mist/fume, 90 days)	0.05 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day Study)
NOAEL (subchronic, oral, animal/male, 90 days)	1034 mg/kg bodyweight Animal: dog, Animal sex: male, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	1087 mg/kg bodyweight Animal: dog, Animal sex: female, Guideline: OECD Guideline 409 (Repeated Dose 90-Day Oral Toxicity Study in Non-Rodents)
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)
n-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm <sup>2</sup> /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm <sup>2</sup> /s)'
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4 (1065336-91-5)	-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
Viscosity, kinematic	478 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
	1

#### 11.2. Information on other hazards

No additional information available

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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

12.1. Toxicity	
Hazardous to the aquatic environment, short-term : (acute)	Not classified (Based on available data, the classification criteria are not met)
	Toxic to aquatic life with long lasting effects.
Not rapidly degradable	
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'
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'
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'
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4 (1065336-91-5)	-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
LC50 - Fish [1]	0.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	1.68 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	0.42 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
aluminium powder (stabilised) (7429-90-5)	
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
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
	1

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titanium dioxide; [in powder form containin	ng 1 % or more of particles with aerodynamic diameter $\leq$ 10 µm] (13463-67-7)
EC50 72h - Algae [1]	> 50 mg/l Source: ECHA
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
n-butyl acetate (123-86-4)	
Partition coefficient n-octanol/water (Log Pow)	1.78 Source: HSDB
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessment	i de la companya de l
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) Waste treatment methods Sewage disposal recommendations Product/Packaging disposal recommendations	<ul> <li>Disposal must be done according to official regulations.</li> <li>Dispose of contents/container in accordance with licensed collector's sorting instructions.</li> <li>Do not discharge into drains.</li> <li>This material and its container must be disposed of as hazardous waste. Do not dispose with domestic waste. After cleaning, recycle or dispose of at an authorised site.</li> </ul>
Additional information European List of Waste (LoW) code	<ul> <li>Flammable vapours may accumulate in the container.</li> <li>08 01 11* - waste paint and varnish containing organic solvents or other dangerous</li> </ul>

: 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**

In accordance with ADR / IMDG / IATA

IMDG	ΙΑΤΑ	
UN 1263	UN 1263	
PAINT	Paint	
	<u>.</u>	
UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (24°C c.c.) UN 1263 Paint, 3, III, ENVIRON HAZARDOUS (24°C c.c.)		
14.3. Transport hazard class(es)		
3	3	
	UN 1263 PAINT UN 1263 PAINT, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS (24°C c.c.)	

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ADR	IMDG	ΙΑΤΑ	
14.4. Packing group			
	Ш	Ш	
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) Special packing provisions (ADR) Mixed packing provisions (ADR) Transport category (ADR) Special provisions for carriage - Packages (ADR)	: F1 : 5I : PP1 : 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)	: 163, 223, 367, 955 : 5 L : PP1 : F-E : S-E : A

#### 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)

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#### 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 substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors) ANNEX II REPORTABLE EXPLOSIVES PRECURSORS

List of substances on their own or in mixtures or in substances for which suspicious transactions and significant disappearances and thefts are to be reported to the relevant national contact point within 24 hours.

Name		Combined Nomenclature code (CN)	Combined Nomenclature code for mixture without constituents which would determine classification under another CN code
Aluminium, powders	7429-90-5	7603 10 00; ex 7603 20 00	

Please see https://ec.europa.eu/home-affairs/system/files/2021-11/list\_of\_competent\_authorities\_and\_national\_contact\_points\_en.pdf

#### 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:

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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	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	

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Abbreviations and acronyms:			
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 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. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Carc. 2	Carcinogenicity, Category 2	
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Flam. Liq. 3	Flammable liquids, Category 3	
Flam. Sol. 1	Flammable solids, Category 1	
H226	Flammable liquid and vapour.	
H228	Flammable solid.	
H261	In contact with water releases flammable gases.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H332	Harmful if inhaled.	

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Full text of H- and EUH-statements:		
H336	May cause drowsiness or dizziness.	
H351	Suspected of causing cancer.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
Skin Sens. 1A	Skin sensitisation, category 1A	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
Water-react. 2	Substances and Mixtures which, in contact with water, emit flammable gases, Category 2	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	Expert judgment
Skin Irrit. 2	H315	Expert judgment
Skin Sens. 1	H317	Calculation method
Aquatic Chronic 2	H411	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.