

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 6/17/2020 Revision date: 9/1/2022 Supersedes version of: 6/15/2022 Version: 3.00

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

1.1. Product identifier

Product form Name Trade name	 Mixture Polyurethane topcoat ARMORTOPCOAT PU 1000-10 	
1.2. Relevant identified uses of the substa	ance or mixture and uses advised against	
 1.2.1. Relevant identified uses Use of the substance/mixture 1.2.2. Uses advised against No additional information available 	: The product is intended for professional use	
1.3. Details of the supplier of the safety da	ata 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 fo	or the SDS : <u>dokumentacja@novol.com</u>	
1.4. Emergency telephone number		
Emergency number	: 112	
SECTION 2: Hazards identification		
2.1. Classification of the substance or mix	xture	
Classification according to Regulation (EC) No.	. 1272/2008 [CLP]	

Flammable liquids, Category 2	H225
Skin corrosion/irritation, Category 2	H315
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336
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)

Signal word (CLP) Contains Hazard statements (CLP)

Precautionary statements (CLP)



: Danger

:

- : methylcyclohexane
- : H225 Highly flammable liquid and vapour.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H412 Harmful 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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P271 - Use only outdoors or in a well-ventilated area.

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

P312 - Call doctor if you feel unwell.

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	30 – 45	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	15 – 20	Flam. Liq. 3, H226
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	8 – 12	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
2-butoxyethyl acetate; butylglycol acetate substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 112-07-2 EC-No.: 203-933-3 EC Index-No.: 607-038-00-2 REACH-no: 01-2119475112- 47	5 – 10	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312
Hydrocarbons, C9, aromatics	EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	5 – 10	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
methylcyclohexane	CAS-No.: 108-87-2 EC-No.: 203-624-3 EC Index-No.: 601-018-00-7 REACH-no: 01-2119556887- 18	0.5 – 6	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411

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

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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 effe	ects, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 Vapours may cause drowsiness and dizziness. Prolonged or repeated contact may cause skin to become dry. May cause eye irritation.
Symptoms/enects after eye contact	. Way cause eye milation.

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	Dry chemical, CO2, alcohol-resistant foam or waterspray.Do not use a heavy water stream.
5.2. Special hazards arising from the subs	tance 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 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 t sewage system, even in small quantities.	to enter into surface water or drains. Do not allow product to reach ground water, water bodies or	

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.

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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 Storage conditions Storage temperature	 Ground/bond container and receiving equipment. Store in a well-ventilated place. Keep cool. Keep container tightly closed. 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 ³	
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 ³ 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 ³ 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	

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are concerns that dermal absorption will lead to systemic toxicity) 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 ³ 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 ³ WEL STEL (OEL STEL) 966 mg/m ³ WEL STEL (OEL STEL) 966 mg/m ³ WEL STEL (OEL STEL) [ppm] 200 ppm Regulatory reference EH40/2005 (Fourth edition, 2020). HSE 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU EU - Indicative Occupational Exposure Limit (IOEL) Indicative Occupational Exposure Limit (IOEL)	xylene (1330-20-7)			
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EU - Indicative Occupational Exposure Limit (IOEL) Local name n-Butyl acetate IOEL TWA [ppm] 50 ppm IOEL STEL 723 mg/m³ IOEL STEL [ppm] 150 ppm Regulatory reference COMMISSION DIRECTIVE (EU) 2019/1831 United Kingdom - Occupational Exposure Limits Local name 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) 966 mg/m³ WEL STEL (OEL STEL) 966 mg/m³ WEL STEL (OEL STEL) [ppm] 200 ppm Regulatory reference EH40/2005 (Fourth edition, 2020). HSE 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm Pm EU - Indicative Occupational Exposure Limit (IOEL)	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
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IOEL TWA [ppm]50 ppmIOEL STEL723 mg/m³IOEL STEL [ppm]150 ppmRegulatory referenceCOMMISSION DIRECTIVE (EU) 2019/1831United Kingdom - Occupational Exposure LimitsLocal nameButyl acetateWEL TWA (OEL TWA) [1]724 mg/m³WEL TWA (OEL TWA) [2]150 ppmWEL STEL (OEL STEL)966 mg/m³WEL STEL (OEL STEL)966 mg/m³WEL STEL (OEL STEL) [ppm]200 ppmRegulatory referenceEH40/2005 (Fourth edition, 2020). HSE2-butoxyethyl acetate; butylglycol acetate (112-07-2)EU - Indicative Occupational Exposure Limit (IOEL)Local name2-Butoxyethyl acetateIOEL TWA [ppm]20 ppm	EU - Indicative Occupational Exposure Limit (IOEL)			
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IOEL STEL [ppm] 150 ppm Regulatory reference COMMISSION DIRECTIVE (EU) 2019/1831 United Kingdom - Occupational Exposure Limits Edit acetate 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 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	IOEL TWA [ppm]	50 ppm		
Regulatory reference COMMISSION DIRECTIVE (EU) 2019/1831 United Kingdom - Occupational Exposure Limits Butyl acetate 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 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	IOEL STEL	723 mg/m ³		
United Kingdom - Occupational Exposure Limits 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 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	IOEL STEL [ppm]	150 ppm		
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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 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	United Kingdom - Occupational Exposure Limits			
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WEL STEL (OEL STEL) [ppm] 200 ppm Regulatory reference EH40/2005 (Fourth edition, 2020). HSE 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	WEL TWA (OEL TWA) [2]	150 ppm		
Regulatory reference EH40/2005 (Fourth edition, 2020). HSE 2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	WEL STEL (OEL STEL)	966 mg/m ³		
2-butoxyethyl acetate; butylglycol acetate (112-07-2) EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	WEL STEL (OEL STEL) [ppm]	200 ppm		
EU - Indicative Occupational Exposure Limit (IOEL) Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
Local name 2-Butoxyethyl acetate IOEL TWA [ppm] 20 ppm	2-butoxyethyl acetate; butylglycol acetate (112-07-2)			
IOEL TWA [ppm] 20 ppm	EU - Indicative Occupational Exposure Limit (IOEL)			
	Local name	2-Butoxyethyl acetate		
10EL STEL 222 mg/m3	IOEL TWA [ppm]	20 ppm		
IDEL STEL 353 IIIg/II ^e	IOEL STEL	333 mg/m ³		
IOEL STEL [ppm] 50 ppm	IOEL STEL [ppm]	50 ppm		
Remark Skin	Remark	Skin		

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2-butoxyethyl acetate; butylglycol acetate (112-07-2)		
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	2-Butoxyethyl acetate	
WEL TWA (OEL TWA) [1]	133 mg/m ³	
WEL TWA (OEL TWA) [2]	20 ppm	
WEL STEL (OEL STEL)	332 mg/m ³	
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	

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 ³	
Acute - local effects, inhalation	289 mg/m ³	
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	77 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	174 mg/m ³	
Acute - local effects, inhalation	174 mg/m ³	
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	14.8 mg/m ³	
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	

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xylene (1330-20-7)			
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/m ³		
Long-term - systemic effects, dermal	796 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	275 mg/m ³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	36 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	33 mg/m ³		
Long-term - systemic effects, dermal	320 mg/kg bodyweight/day		
Long-term - local effects, inhalation	33 mg/m ³		
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 (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		
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-butoxyethyl acetate; butylglycol acetate (112-07-2)			
DNEL/DMEL (Workers)			
Acute - systemic effects, dermal	120 mg/kg bodyweight/day		

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2-butoxyethyl acetate; butylglycol acetate (112-07-2)		
Acute - local effects, inhalation	333 mg/m ³	
Long-term - systemic effects, dermal	169 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	133 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	72 mg/kg bodyweight/day	
Acute - systemic effects, oral	36 mg/kg bodyweight/day	
Acute - local effects, inhalation	200 mg/m ³	
Long-term - systemic effects,oral	8.6 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	80 mg/m ³	
Long-term - systemic effects, dermal	102 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.304 mg/l	
PNEC aqua (marine water)	0.0304 mg/l	
PNEC aqua (intermittent, freshwater)	0.56 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	2.03 mg/kg dwt	
PNEC sediment (marine water)	0.203 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.415 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	60 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	90 mg/l	
Hydrocarbons, C9, aromatics		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	150 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	11 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	32 mg/m ³	
Long-term - systemic effects, dermal	11 mg/kg bodyweight/day	
methylcyclohexane (108-87-2)		
DNEL/DMEL (Workers)		
Acute - systemic effects, inhalation	1354.6 mg/m ³	
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	64.3 mg/m ³	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	1016 mg/m ³	

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methylcyclohexane (108-87-2)		
Long-term - systemic effects,oral	0.4 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	16 mg/m ³	
Long-term - systemic effects, dermal	0.8 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	1.34 µg/l	
PNEC aqua (marine water)	0.134 µg/l	
PNEC aqua (intermittent, freshwater)	13.4 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	36.2 µg/kg dw	
PNEC sediment (marine water)	3.62 µg/kg dw	
PNEC (Soil)		
PNEC soil	9.7 µg/kg dw	
PNEC (STP)		
PNEC sewage treatment plant	273 μg/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:

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	: Liguid
Colour	: Green, brown, Black,
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: 101 – 120 °C
Flammability	: Not applicable
Explosive properties	: No data available.
Explosive limits	: Not available
Lower explosion limit	: 1.2 vol %
Upper explosion limit	: 7.6 vol %
Flash point	: 22 °C
Auto-ignition temperature	: 250 °C
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Slightly soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.1 g/cm ³
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)	
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)	
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-butoxyethyl acetate; butylglycol acetate (1	12-07-2)	
LD50 oral rat	≈ 1880 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:	
LD50 dermal rabbit	≈ 1500 mg/kg bodyweight Animal: rabbit, Remarks on results: other:	
LC50 Inhalation - Rat [ppm]	> 400 ppm Source: ECHA	
Hydrocarbons, C9, aromatics	·	
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LC50 Inhalation - Rat	> 6193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other:	

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methylcyclohexane (108-87-2)		
LD50 dermal rabbit		> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Skin corrosion/irritation		Causes skin irritation.
n-butyl acetate (123-86-4)		
рН		6.2 Temp.: 20 °C Concentration: 5,3 g/L
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
Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity STOT-single exposure	:	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) Not classified (Based on available data, the classification criteria are not met) May cause drowsiness or dizziness.
n-butyl acetate (123-86-4)		
STOT-single exposure		May cause drowsiness or dizziness.
Hydrocarbons, C9, aromatics		
STOT-single exposure		May cause drowsiness or dizziness. May cause respiratory irritation.
methylcyclohexane (108-87-2)		·
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)
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-butoxyethyl acetate; butylglycol ace	tate (11	2-07-2)
NOAEL (dermal, rat/rabbit, 90 days)		> 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
Hydrocarbons, C9, aromatics		
NOAEL (oral, rat, 90 days)		600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)

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methylcyclohexane (108-87-2)		
LOAEL (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)	
LOAEC (inhalation, rat, vapour, 90 days)	8 mg/l air Animal: rat, Animal sex: male	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)	
spiration hazard : Not classified (Based on available data, the classification criteria are not met)		
n-butyl acetate (123-86-4)		
Viscosity, kinematic	0.83 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'	
methylcyclohexane (108-87-2)		
Viscosity, kinematic	0.883 mm ² /s	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

(acute)	Not classified (Based on available data, the classification criteria are not met) Harmful to aquatic life with long lasting effects.
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'
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)

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n-butyl acetate (123-86-4)	
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-butoxyethyl acetate; butylglycol ac	etate (112-07-2)
LC50 - Fish [1]	20 – 40 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	37 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1570 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	520 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	1570 mg/l Source: ECHA
Hydrocarbons, C9, aromatics	
EC50 72h - Algae [1]	0.42 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
methylcyclohexane (108-87-2)	
LC50 - Fish [1]	2.07 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	0.326 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.134 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
ErC50 algae	0.134 mg/l Source: EHCA

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		
2-butoxyethyl acetate; butylglycol acetate (112-07-2)		
Partition coefficient n-octanol/water (Log Pow) 1.51 Source: ECHA		
methylcyclohexane (108-87-2)		
Partition coefficient n-octanol/water (Log Pow) 3.88 Source: ECHA		

12.4. Mobility in soil

No additional information available

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

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SECTION 13: Disposal considerations

12 1 W/	aste treat	tmont m	sthada
13.1. W	asie ilea		FUIDUS

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 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 (22°C c.c.)	UN 1263 Paint, 3, II	
14.3. Transport hazard class(es)			
3	3	3	
3			
14.4. Packing group	I		
II	П		
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	

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)	:	F1 5I PP1 MP19 2
Tunnel restriction code (ADR) EAC code	-	D/E •3YE
Transport by sea Special provisions (IMDG) Limited quantities (IMDG)		163, 367 5 L

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Special packing provisions (IMDG)	:	PP1
EmS-No. (Fire)	:	F-E
EmS-No. (Spillage)	:	S-E
Stowage category (IMDG)	:	В

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

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	

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Abbreviations and acronyms:			
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		
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		
РВТ	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)	cute toxicity (inhal.), 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		

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Full text of H- and EUH-statements:			
Asp. Tox. 1	Aspiration hazard, 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.		
H304	May be fatal if swallowed and enters airways.		
H312	Harmful in contact with skin.		
H315	Causes skin irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Skin Irrit. 2	Skin corrosion/irritation, 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	
STOT SE 3	H336	Calculation method	
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.