

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Issue date: 6/17/2024 Version: 1.00

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

1.1. Product identifier

Product form : Mixture

Name

Trade name : ARMORTOPCOAT PU 4000-10

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

Relevant identified uses

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

1.3. Details of the supplier of the safety data sheet

NOVOL Sp. z o.o. Żabikowska 7/9

62-052 KOMORNIKI, Poland

Poland

T +48618109800, F +48618109809 sekretariat@novol.com, www.novol.com

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

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

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

Narcosis

Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)





GHS02

GHS07

Signal word (CLP) : Danger

Contains : methylcyclohexane

Hazard statements (CLP) : 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.

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

No smoking.

P261 - Avoid breathing vapours, spray.

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

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P280 - Wear protective gloves, protective clothing, eye protection, face protection. P312 - Call doctor if you feel unwell.

2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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

3.2. 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-	30 – 45	Flam. Liq. 3, H226 STOT SE 3, H336 EUH066
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-	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 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) 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-	5 – 10	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312
Hydrocarbons, C9, aromatics	CAS-No.: 128601-23-0 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 EUH066
methylcyclohexane	CAS-No.: 108-87-2 EC-No.: 203-624-3 EC Index-No.: 601-018-00-7 REACH-no: 01-2119556887-	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 effects, both acute and delayed

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

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

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

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry chemical, CO2, alcohol-resistant foam or waterspray.

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

5.2. Special hazards arising from the substance or mixture

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

5.3. Advice for firefighters

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

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

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.

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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 : 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

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	50 ppm	
IOEL STEL	442 mg/m³	
	100 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	Xylene	
WEL TWA (OEL TWA)	220 mg/m³ o-,m-,p- or mixed isomers	
	50 ppm o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers	
	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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xylene (1330-20-7)			
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
2-methoxy-1-methylethyl acetate (108-65-6)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	2-Methoxy-1-methylethylacetate		
IOEL TWA	275 mg/m³		
	50 ppm		
IOEL STEL	550 mg/m³		
	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)	274 mg/m³		
	50 ppm		
WEL STEL (OEL STEL)	548 mg/m³		
	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		
n-butyl acetate (123-86-4)			
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	n-Butyl acetate		
IOEL TWA	241 mg/m³		
	50 ppm		
IOEL STEL	723 mg/m³		
	150 ppm		
Regulatory reference	COMMISSION DIRECTIVE (EU) 2019/1831		
United Kingdom - Occupational Exposure Limits			
Local name	Butyl acetate		
WEL TWA (OEL TWA)	724 mg/m³		
	150 ppm		
WEL STEL (OEL STEL)	966 mg/m³		
	200 ppm		
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE		
2-butoxyethyl acetate; butylglycol acetate (11	2-07-2)		
EU - Indicative Occupational Exposure Limit (IOEL)			
Local name	2-Butoxyethyl acetate		
IOEL TWA	133 mg/m³		
	20 ppm		
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2-butoxyethyl acetate; butylglycol acetate (112-07-2)		
IOEL STEL	333 mg/m³	
	50 ppm	
Remark	Skin	
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC	
United Kingdom - Occupational Exposure Limits		
Local name	2-Butoxyethyl acetate	
WEL TWA (OEL TWA)	133 mg/m³	
	20 ppm	
WEL STEL (OEL STEL)	332 mg/m³	
	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	

Recommended monitoring procedures

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

DNEL and PNEC

289 mg/m³
289 mg/m³
180 mg/kg bodyweight/day
77 mg/m³
174 mg/m³
174 mg/m³
1.6 mg/kg bodyweight/day
14.8 mg/m³
108 mg/kg bodyweight/day
0.327 mg/l
0.327 mg/l
0.327 mg/l
12.46 mg/kg dwt
12.46 mg/kg dwt
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/m³		
Long-term - systemic effects, dermal	796 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	275 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	36 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	33 mg/m³		
Long-term - systemic effects, dermal	320 mg/kg bodyweight/day		
Long-term - local effects, inhalation	33 mg/m³		
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/m³		
Long-term - systemic effects, dermal	169 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	133 mg/m³		
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/m³		
Long-term - systemic effects,oral	8.6 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	80 mg/m³		
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 (128601-23-0)			
DNEL/DMEL (Workers)			
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	150 mg/m³		
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	11 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	32 mg/m³		
Long-term - systemic effects, dermal	11 mg/kg bodyweight/day		
methylcyclohexane (108-87-2)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	1354.6 mg/m³		
Additional Systemic Checks, initial attention			
Long-term - systemic effects, dermal	1.7 mg/kg bodyweight/day		
	1.7 mg/kg bodyweight/day 64.3 mg/m³		
Long-term - systemic effects, dermal			

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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/m³
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

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment symbol(s):







Eye and face protection

Eye protection:

Safety glasses

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

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

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

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 : 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 properties 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 рΗ : Not available Viscosity, kinematic : Not available Solubility : Slightly soluble. Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure : Not available Vapour pressure at 50°C Density : 1.1 g/cm³ : Not available Relative density Relative vapour density at 20°C : Not available Particle characteristics : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions of use.

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.

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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 hazar	d classes as defir	ned in Regulation	(FC) No 1272/2008

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

Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
xylene (1330-20-7)	
LD50 oral rat	3523 mg/kg rat
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male
LC50 Inhalation - Rat	27124 mg/l
2-methoxy-1-methylethyl acetate (10	8-65-6)
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 ac	cetate (112-07-2)
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 (12860	11-23-0)
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:
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
Cariana ava damaga/irritation	. Not algorified (Perced on excellable data, the algorification evitoria are not mot)

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
Description on the constitution	Net also 20 at /D and an available data the also 20 at language and a set

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : May cause drowsiness or dizziness.

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Hydrocarbons, C9, aromatics (128601-23-0) 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 of 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 Screeni 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 Toxicit Rodents) NOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicit Rodents) 2-butoxyethyl acetate; butylglycol acetate (112-07-2) NOAEL (dermal, rat/rabbit, 90 days) > 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
methylcyclohexane (108-87-2) STOT-single exposure May cause drowsiness or dizziness. May cause respiratory irritation. May cause drowsiness or dizziness. 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 in 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 Screeni 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 Toxicit Rodents) NOAEL (oral, rat, 90 days) 125 mg/kg bodyweight Animal: rat, Guideline: EPA OTS 798.2650 (90-Day Oral Toxicit Rodents) 2-butoxyethyl acetate; butylglycol acetate (112-07-2) NOAEL (dermal, rat/rabbit, 90 days) > 150 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 411 (Subchronic
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Hydrocarbons, C9, aromatics (128601-23-0)
NOAEL (oral, rat, 90 days) 600 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90 Day Oral Toxicity Study in Rodents)
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 Screeni 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 Repeat Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
n-butyl acetate (123-86-4)
Viscosity, kinematic 0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
methylcyclohexane (108-87-2)
Viscosity, kinematic 0.883 mm²/s

11.2. Information on other hazards

No additional information available

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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

: Harmful to aquatic life with long lasting effects.

(chronic)

(GITOTIIC)	
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)
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 acetate (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 (128601-23-0)	
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)

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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

ARMORTOPCOAT PU 4000-10		
Persistence and degradability	Not rapidly degradable	
xylene (1330-20-7)		
Persistence and degradability	Not rapidly degradable	
2-methoxy-1-methylethyl acetate (108-65-6)		
Persistence and degradability	Not rapidly degradable	
n-butyl acetate (123-86-4)		
Persistence and degradability	Not rapidly degradable	
2-butoxyethyl acetate; butylglycol acetate (112-07-2)		
Persistence and degradability	Not rapidly degradable	
Hydrocarbons, C9, aromatics (128601-23-0)		
Persistence and degradability	Not rapidly degradable	
methylcyclohexane (108-87-2)		
Persistence and degradability	Not rapidly degradable	

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

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

European List of Waste (LoW, EC 2000/532)

: Disposal must be done according to official regulations.

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

: Do not discharge into drains.

This material and its container must be disposed of as hazardous waste. Do not dispose of

with domestic waste. After cleaning, recycle or dispose of at an authorised site.

: Flammable vapours may accumulate in the container.

: 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

European List of Waste (LoW, EC 2000/532)

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

IMDG	IATA
UN 1263	UN 1263
PAINT	Paint
UN 1263 PAINT, 3, II (22°C c.c.)	UN 1263 Paint, 3, II
3	3
3	3
II	II
Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E EmS-No. (Spillage): S-E	Dangerous for the environment: No
	UN 1263 PAINT UN 1263 PAINT, 3, II (22°C c.c.) 3 II Dangerous for the environment: No Marine pollutant: No EmS-No. (Fire): F-E

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5l
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19

Transport category (ADR)
Orange plates

33 1263

Tunnel restriction code (ADR) : D/E

6/17/2024 (Issue date) GB - en 15/18

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EAC code : •3YE

Transport by sea

Special provisions (IMDG) : 163, 367
Limited quantities (IMDG) : 5 L
Special packing provisions (IMDG) : PP1
Stowage category (IMDG) : B

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

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 (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

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)

National regulations

Germany

Air Quality Control (TA Luft)					
Category	Class	Applicable on	Local name		Max. mass concentration

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 disruptor

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Data sources : ECHA (European Chemicals Agency).

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

Full text of H- and EUH-statements:		
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
Flam. Liq. 2	Flammable liquids, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	
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.	
EUH066	Repeated exposure may cause skin dryness or cracking.	

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.