

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 5/29/2021 Revision date: 1/2/2023 Supersedes version of: 7/1/2020 Version: 5.00

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

1.1. Product identifier

Product form : Mixture
Name : Hardener
Trade name : H5140

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

1.2.1. Relevant identified uses

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

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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

Poland

T 0048618109800 - F 0048618109809

www.novol.com

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

1.4. Emergency telephone number

Emergency number : 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable liquids, Category 3

Skin corrosion/irritation, Category 2

Skin sensitisation, Category 1

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

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

H335

tract irritation

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) :





GHS07

GHS02

Signal word (CLP) : Warning
Contains : xylene

Hazard statements (CLP) : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H335 - May cause respiratory irritation.

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H336 - May cause drowsiness or dizziness.

H332 - Harmful if inhaled.

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

No smoking.

P261 - Avoid breathing vapours, spray.

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

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

P312 - Call doctor if you feel unwell.

EUH-statements : EUH204 - Contains isocyanates. May produce an allergic reaction.

2.3. Other hazards

Other hazards which do not result in classification

: Can react violently with alkalis, as well as a lot of organic products such as alcohols and amines. Reacts with water, generates gases or heat and overpressure: rupture containers. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

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]
Hexamethylen-1,6-Diisocyanat Homopolimer	CAS-No.: 28182-81-2 EC-No.: 931-274-8 REACH-no: 01-2119485796- 17	20 – 30	Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 STOT SE 3, H335
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	20 – 30	Flam. Liq. 3, H226 STOT SE 3, H336
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	20 – 25	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315
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-	10 – 15	Flam. Liq. 3, H226
5-Isocyanato-1-(isocyanatomethyl)-1,3,3- trimethylcyclohexane homopolymer	CAS-No.: 53880-05-0 EC-No.: 500-125-5	10 – 15	Skin Sens. 1, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
isophorone di-isocyanate (Note 2)	CAS-No.: 4098-71-9 EC-No.: 223-861-6 EC Index-No.: 615-008-00-5 REACH-no: 01-2119490408- 31	< 0.01	Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 2, H411

Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
	CAS-No.: 4098-71-9 EC-No.: 223-861-6 EC Index-No.: 615-008-00-5 REACH-no: 01-2119490408-31	(0.5 ≤C ≤ 100) Resp. Sens. 1, H334 (0.5 ≤C ≤ 100) Skin Sens. 1, H317	

Note 2 - The concentration of isocyanate stated is the percentage by weight of the free monomer calculated with reference to the total weight of the mixture.

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

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

for breathing.

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

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

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

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

immediately with plenty of water and seek medical advice.

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

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

Symptoms/effects after inhalation : 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. Nitrogen oxides. Other toxic gases.

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5.3. Advice for firefighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained $\label{eq:contained} % \begin{center} \begin{center}$

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

6.3. Methods and material for containment and cleaning up

For containment

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

recover the product.

6.4. Reference to other sections

Disposal considerations. See Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Wear personal protective equipment.

Hygiene measures

: Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures

: Ground/bond container and receiving equipment.

Storage conditions

: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Protect from

moisture. Protect against frost.

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

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xylene (1330-20-7)		
IOEL STEL	442 mg/m³	
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/m³ o-,m-,p- or mixed isomers	
WEL TWA (OEL TWA) [2]	50 ppm o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL)	441 mg/m³ o-,m-,p- or mixed isomers	
WEL STEL (OEL STEL) [ppm]	100 ppm o-,m-,p- or mixed isomers	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
United Kingdom - Biological limit values		
Local name	Xylene, o-, m-, p- or mixed isomers	
BMGV	650 mmol/mol Creatinine Parameter: methyl hippuric acid - Medium: urine - Sampling time: Post shift	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
2-methoxy-1-methylethyl acetate (108-65-6)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	2-Methoxy-1-methylethylacetate	
IOEL TWA [ppm]	50 ppm	
IOEL STEL	550 mg/m³	
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/m³	
WEL TWA (OEL TWA) [2]	50 ppm	
WEL STEL (OEL STEL)	548 mg/m³	
WEL STEL (OEL STEL) [ppm]	100 ppm	
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
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/m³	

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n-butyl acetate (123-86-4)		
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/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	

8.1.2. Recommended monitoring procedures

Monitoring methods	
3	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/m³		
Acute - local effects, inhalation	289 mg/m³		
Long-term - systemic effects, dermal	180 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	77 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, inhalation	174 mg/m³		
Acute - local effects, inhalation	174 mg/m³		
Long-term - systemic effects,oral	1.6 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	14.8 mg/m³		
Long-term - systemic effects, dermal	108 mg/kg bodyweight/day		
PNEC (Water)			
PNEC aqua (freshwater)	0.327 mg/l		
PNEC aqua (marine water)	0.327 mg/l		
PNEC aqua (intermittent, freshwater)	0.327 mg/l		
PNEC (Sediment)	PNEC (Sediment)		
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		

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DNEL DMEL (Workers) 550 mg/m² Acute - Local effects, inhalation 550 mg/m² Long torm - systemic effects, chmalation 275 mg/m² DNEL DMEL (General population) 275 mg/m² Long-term - systemic effects, cnral 38 mg/kg bodyweight/day Long-term - systemic effects, cnral 320 mg/kg bodyweight/day Long-term - systemic effects, chmalation 33 mg/m² Long-term - systemic effects, chmalation 33 mg/m² PNEC (Water) 33 mg/m² PNEC (Water) 0.635 mg/l PNEC adjua (freshwater) 0.635 mg/l PNEC adjua (freshwater) 0.635 mg/l PNEC adjua (freshwater) 3.29 mg/kg dwt PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC (SiT) PNEC (SiT) PNEC (SiT) PNEC sediment (marine water) PNEC sediment (plant (hydrex) 1.00 mg/l Acute (SiT) PNEL (Marine Water) 0.5 mg/m² PNEC (Water) 0.127	2-methoxy-1-methylethyl acetate (108-65-6)			
Long-term - systemic effects, inhalation 275 mg/m³ DNELDMEL (General population) Long-term - systemic effects, inhalation 36 mg/kg bodyweightiday Long-term - systemic effects, ranialation 38 mg/m² Long-term - systemic effects, inhalation 33 mg/m² Long-term - systemic effects, inhalation 33 mg/m² PNEC (Water) 0.635 mg/l PNEC aqua (freshwater) 0.635 mg/l PNEC aqua (freshwater) 0.635 mg/l PNEC aqua (freshwater) 0.635 mg/l PNEC sedic (mermitlent, freshwater) 0.535 mg/l PNEC sedic (mermitlent, freshwater) 0.29 mg/kg dw/l PNEC sediment (freshwater) 0.29 mg/kg dw/l PNEC sediment (freshwater) 0.29 mg/kg dw/l PNEC soll 0.29 mg/kg dw/l PNEC sediment (freshwater) 0.5 mg/m² PNEC aqua (freshwater) 0.5 mg/m² PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (freshwater) 0.127 mg	DNEL/DMEL (Workers)			
Long term - systemic effects, inhalation 275 mg/m² DNEL/DMEL (General population) 36 mg/kg bodyweight/day Long-term - systemic effects, crinalation 33 mg/m² Long-term - systemic effects, inhalation 33 mg/m² Long-term - systemic effects, inhalation 33 mg/m² PNEC (Water) Wind the systemic effects, inhalation PNEC Quala (freshwater) 0.635 mg/l PNEC aqua (marine water) 0.635 mg/l PNEC aqua (marine water) 0.535 mg/l PNEC (Sodiment) PNEC (Sodiment) PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC (Sol) 0.29 mg/kg dwt PNEC (Sol) 0.5 mg/m² PNEC (Sola effects, inhalation 0.5 mg/m² PNEC (Water) 0.127 mg/l PNEC (Sola (freshwater) 0.127 mg/l <t< td=""><td>Acute - local effects, inhalation</td><td>550 mg/m³</td></t<>	Acute - local effects, inhalation	550 mg/m³		
DNEL DMEL (General population) Long-term - systemic effects, oral 36 mg/kg bodyweight/day Long-term - systemic effects, dermal 320 mg/m² Long-term - local effects, inhalation 33 mg/m² Long-term - local effects, inhalation 33 mg/m² PNEC (Water) 0.635 mg/l PNEC aqua (freshwater) 0.635 mg/l PNEC aqua (marine water) 0.635 mg/l PNEC Sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (freshwater) 0.329 mg/kg dwt PNEC sediment (marine water) 0.329 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (zallez-81-2) DMEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m² Long-term- local effects, inhalation 0.5 mg/m² PNEC Qualu (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.127 mg/l PNEC aqua (i	Long-term - systemic effects, dermal	796 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation 33 mg/m² Long-term - systemic effects, inhalation 320 mg/kg bodyweight/day Long-term - local effects, inhalation 33 mg/m² PMEC (Water) Wind (Freshwater) PMEC aqua (freshwater) 0.635 mg/l PNEC aqua (intermittent, freshwater) 0.635 mg/l PNEC (Sediment) 8.35 mg/l PNEC (Sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (freshwater) 0.329 mg/kg dwt PNEC sediment (freshwater) 0.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sedupe treatment plant 100 mg/l Hexamethylen-1,6-Dilisocyanat Homopolimer (28182-81-2) DNELD DMEL (Workers) Acute - local effects, inhalation 1 mg/m² Long-term - local effects, inhalation 0.5 mg/m² PNEC Quala (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.127 mg/l PNEC aqua (marine water) 0.127 mg/l PNEC (Sediment) 26670 mg/kg dwt PNEC (Se	Long-term - systemic effects, inhalation	275 mg/m³		
Long-term - systemic effects, inhalation 33 mg/m³ Long-term - coal 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) 0.635 mg/l PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (marine water) 0.329 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (28182-81-2) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m² Long-term - local effects, inhalation 0.5 mg/m² DNEC (Water) PNEC qua (freshwater) 0.127 mg/l PNEC aqua (freshwater) 0.127 mg/l PNEC sediment (freshwater) 26670 mg/kg dwt PNEC sediment (marine water)	DNEL/DMEL (General population)			
Long-term - systemic effects, dermal 320 mg/kg bodyweight/day Long-term - local effects, inhalation 33 mg/m² PNEC (Water) PNEC aqua (fireshwater) 0.635 mg/l PNEC aqua (intermittent, fireshwater) 6.35 mg/l PNEC Sediment (fireshwater) 3.29 mg/kg owt PNEC Sediment (fireshwater) 0.29 mg/kg dwt PNEC Sediment (marine water) 0.29 mg/kg dwt PNEC Sediment (marine water) 0.29 mg/kg dwt PNEC Sediment (marine water) PNEC Sediment (marine water) 0.29 mg/kg dwt PNEC Sediment (marine water) PNEC Sediment (marine water) 0.29 mg/kg dwt PNEC Sediment (marine water) PNEC Sediment (marine water) DNEL/DMEL (Workers) NEL John (Long-term Local effects, inhalation) 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC Water) PNEC Gediment PNEC Gediment (marine water) 0.127 mg/l PNEC (sediment) PNEC (sediment (freshwater) 266701 mg/kg dwt	Long-term - systemic effects,oral	36 mg/kg bodyweight/day		
Description Constitution Const	Long-term - systemic effects, inhalation	33 mg/m³		
PNEC (Water) PNEC aqua (freshwater) 0.635 mg/l PNEC aqua (intermittent, freshwater) 8.35 mg/l PNEC sediment) PNEC (Sediment) 3.29 mg/kg dwt PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (marine water) 0.29 mg/kg dwt PNEC (Soil) 0.29 mg/kg dwt PNEC (Soil) 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (zsh82-81-2) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC Water) PNEC (Water) PNEC aqua (marine water) 0.127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC (Sediment) PNEC (Sediment (freshwater) 266701 mg/kg dwt PNEC sediment (freshwater) 266701 mg/kg dwt PNEC (Soil) 5183 mg/kg dwt PNEC (Soil) PNEC (Soil)	Long-term - systemic effects, dermal	320 mg/kg bodyweight/day		
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PNEC (sediment (freshwater) 3.29 mg/kg dwt PNEC sediment (marine water) 0.329 mg/kg dwt PNEC (soil) PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Dilisocyanat Homopolimer (28182-81-2) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (intermittent, freshwater) 0.0127 mg/l PNEC (Sediment) PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 266701 mg/kg dwt PNEC soil <	PNEC aqua (marine water)	0.0635 mg/l		
PNEC sediment (freshwater) 3.29 mg/kg dwt PNEC (Soil) 0.29 mg/kg dwt PNEC (Soil) 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer / Examethylen-1,6-Diisocyanat Homopolimer / Examethyle	PNEC aqua (intermittent, freshwater)	6.35 mg/l		
PNEC (soil) 0.29 mg/kg dwt PNEC (soil) 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer Uslas-81-2) DNEL/DMEL (Workers) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (intermittent, freshwater) 0.0127 mg/l PNEC (Sediment) PNEC (Sediment) PNEC (sediment) (freshwater) 266701 mg/kg dwt PNEC (sediment (marine water) 26670 mg/kg dwt PNEC (Soil)	PNEC (Sediment)			
PNEC (soil) PNEC soil 0.29 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (28182-81-2) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (Irleshwater) 0.127 mg/l PNEC aqua (Intermittent, freshwater) 0.0127 mg/l PNEC aqua (Intermittent, freshwater) 266701 mg/kg dwt PNEC sediment (Ireshwater) 266701 mg/kg dwt PNEC sediment (Ireshwater) 26670 mg/kg dwt PNEC (Soil) PNE	PNEC sediment (freshwater)	3.29 mg/kg dwt		
PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (≥8182-81-2) DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC Sediment) 266701 mg/kg dwt PNEC sediment (freshwater) 26670 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) 53183 mg/kg dwt PNEC (STP) PNEC swage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC sediment (marine water)	0.329 mg/kg dwt		
PNEC (STP) PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer ⟨28182-81-2⟩ DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC Sediment) 266701 mg/kg dwt PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) 5183 mg/kg dwt PNEC (STP) 88 mg/l PNEC swage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC (Soil)			
PNEC sewage treatment plant 100 mg/l Hexamethylen-1,6-Diisocyanat Homopolimer (28182-81-2) DNEL/DMEL (Workers) 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) 0.127 mg/l PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC aqua (intermittent, freshwater) 266701 mg/kg dwt PNEC sediment (freshwater) 26670 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC soil 53183 mg/kg dwt PNEC (STP) PNEC (Sewage treatment plant 88 mg/l PNEC (Water) PNEC (Water) 26670 mg/kg dwt PNEC (Water) 26670 mg/kg dwt PNEC (STP) 26070 mg/kg dwt PNEC (STP) 26070 mg/kg dwt PNEC (STP) 26070 mg/kg dwt PNEC (Water) 26070 mg/k	PNEC soil	0.29 mg/kg dwt		
DNEL/DMEL (Workers) 1 mg/m³ 1	PNEC (STP)			
DNEL/DMEL (Workers) Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) PNEC soil 53183 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 88 mg/l PNEC (Water)	PNEC sewage treatment plant	100 mg/l		
Acute - local effects, inhalation 1 mg/m³ Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (intermittent, freshwater) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC soil PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 88 mg/l PNEC (Water) PNEC (Water)	Hexamethylen-1,6-Diisocyanat Homopolime	r (28182-81-2)		
Long-term - local effects, inhalation 0.5 mg/m³ PNEC (Water) PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC soil) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	DNEL/DMEL (Workers)			
PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	Acute - local effects, inhalation	1 mg/m³		
PNEC aqua (freshwater) 0.127 mg/l PNEC aqua (marine water) 0.0127 mg/l PNEC aqua (intermittent, freshwater) 1.27 mg/l PNEC (Sediment) PNEC (Sediment) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) PNEC (Soil) 53183 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	Long-term - local effects, inhalation	0.5 mg/m³		
PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC (Water)			
PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant PNEC sewage treatment plant PNEC (123-86-4) PNEC (Water)	PNEC aqua (freshwater)	0.127 mg/l		
PNEC (Sediment) PNEC sediment (freshwater) 266701 mg/kg dwt PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) PNEC soil 53183 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC aqua (marine water)	0.0127 mg/l		
PNEC sediment (freshwater) PNEC sediment (marine water) 26670 mg/kg dwt PNEC (Soil) PNEC soil PNEC soil PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC aqua (intermittent, freshwater)	1.27 mg/l		
PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC soil PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC (Sediment)			
PNEC (Soil) PNEC soil 53183 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC sediment (freshwater)	266701 mg/kg dwt		
PNEC soil 53183 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC sediment (marine water)	26670 mg/kg dwt		
PNEC (STP) PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC (Soil)			
PNEC sewage treatment plant 88 mg/l n-butyl acetate (123-86-4) PNEC (Water)	PNEC soil	53183 mg/kg dwt		
n-butyl acetate (123-86-4) PNEC (Water)	PNEC (STP)			
PNEC (Water)	PNEC sewage treatment plant	88 mg/l		
1	n-butyl acetate (123-86-4)	n-butyl acetate (123-86-4)		
PNEC aqua (freshwater) 0.18 mg/l	PNEC (Water)			
	PNEC aqua (freshwater)	0.18 mg/l		

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n-butyl acetate (123-86-4)		
0.018 mg/l		
0.36 mg/l		
0.981 mg/kg dwt		
0.0981 mg/kg dwt		
0.0903 mg/kg dwt		
35.6 mg/l		
0.07 mg/m³		
0.035 mg/m³		
8.42 mg/l		
0.045 mg/m³		
0.045 mg/m³		
0.027 mg/l		
0.0004 mg/l		
0.27 mg/l		
0.04 mg/l		
PNEC (Sediment)		
98.51 mg/kg dwt		
1.46 mg/kg dwt		
PNEC (Soil)		
19.8 mg/kg dwt		
PNEC (STP)		

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.

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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

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Relative vapour density at 20°C

Particle characteristics

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Colourless.
Odour : characteristic.

Odour threshold : $0.9 - 9 \text{ mg/m}^3 \text{ Xylene}$

Melting point : Not applicable Freezing point : Not available Boiling point : 126 - 140 °C Flammability : Not applicable Explosive properties : No data available. **Explosive limits** : Not available Lower explosion limit : 1.1 vol % Xylene Upper explosion limit : 8 vol % Xylene Flash point : 32 °C

Auto-ignition temperature : ≈ 430 °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 : 14 hPa

Vapour pressure at 50°C : Not available

Density : ≈ 1 g/cm³

Relative density : Not available

1/2/2023 (Revision date) GB - en 9/17

Not available

: Not applicable

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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

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

Can react violently with alkalis, as well as a lot of organic products such as alcohols and amines. Reacts with water, generates gases or heat and overpressure: rupture containers. Polymerizes on exposure to temperature rise: pressure build-up may cause closed container to burst.

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. Protect from moisture. Keep out of frost.

10.5. Incompatible materials

No contact with: strong acids, strong bases and strong oxidants. Do not allow contact with water.

10.6. Hazardous decomposition products

Carbon monoxide. Nitrogen oxides. Other toxic gases.

SECTION 11: Toxicological information

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

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

xylene (1330-20-7)		
LD50 oral rat	3523 mg/kg rat	
LD50 dermal rabbit	12126 mg/kg bodyweight Animal: rabbit, Animal sex: male	
LC50 Inhalation - Rat	27124 mg/l	
2-methoxy-1-methylethyl acetate (108-65-6)		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Hexamethylen-1,6-Diisocyanat Homopolimer (28182-81-2)		
LD50 oral rat	> 2500 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: other:	

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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
isophorone di-isocyanate (4098-71-9)	
LD50 oral rat	4814 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) Remarks on results: other:, 95% CL: 4295 - 5396
LD50 dermal rat	> 7000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	31 mg/m³ 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
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	 May cause an allergic skin reaction. 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. May cause respiratory irritation.
Hexamethylen-1,6-Diisocyanat Homo	polimer (28182-81-2)
STOT-single exposure	May cause respiratory irritation.
n-butyl acetate (123-86-4)	·
STOT-single exposure	May cause drowsiness or dizziness.
isophorone di-isocyanate (4098-71-9)	·
STOT-single exposure	May cause respiratory irritation.
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)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)

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n-butyl acetate (123-86-4)	
Viscosity, kinematic	0.83 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

acute)

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

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

Hazardous to the aquatic environment, long-term (chronic)

Not rapidly degradable

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'
2-methoxy-1-methylethyl acetate (108-6	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'
Hexamethylen-1,6-Diisocyanat Homopo	olimer (28182-81-2)
EC50 72h - Algae [1]	> 1000 mg/l Test organisms (species): other:
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'
isophorone di-isocyanate (4098-71-9)	
LC50 - Fish [1]	> 208 mg/l Test organisms (species): Cyprinus carpio
EC50 - Crustacea [1]	27 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 70 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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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	
isophorone di-isocyanate (4098-71-9)	
Partition coefficient n-octanol/water (Log Pow)	4.75 Source: ICSC

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

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

: Disposal must be done according to official regulations.

Waste treatment methods

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

Sewage disposal recommendations

: Do not discharge into drains.

Product/Packaging disposal recommendations

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

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

Additional information

: Flammable vapours may accumulate in the container.

European List of Waste (LoW) code

: 08 05 01* - waste isocyanates

15 01 10* - packaging containing residues of or contaminated by dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA
14.1. UN number or ID number		
UN 1866	UN 1866	UN 1866
14.2. UN proper shipping name		
RESIN SOLUTION	RESIN SOLUTION	Resin solution
Transport document description		
UN 1866 RESIN SOLUTION, 3, III, (D/E)	UN 1866 RESIN SOLUTION, 3, III (32°C c.c.)	UN 1866 Resin solution, 3, III
14.3. Transport hazard class(es)		
3	3	3

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ADR	IMDG	IATA
3	3	3
14.4. Packing group		l
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available		I

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) : 3
Special provisions for carriage - Packages (ADR) : V12

Tunnel restriction code (ADR) : D/E EAC code : •3Y

Transport by sea

Special provisions (IMDG) : 223, 955
Limited quantities (IMDG) : 5 L
Special packing provisions (IMDG) : PP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
Stowage category (IMDG) : A

Air transport

No data available

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 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:

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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

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Abbreviations and acronyms:		
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

Data sources : ECHA (European Chemicals Agency).

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

Full text of H- and EUH-statements:		
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
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	
EUH204	Contains isocyanates. May produce an allergic reaction.	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Flam. Liq. 3	Flammable liquids, Category 3	
H226	Flammable liquid and vapour.	
H312	Harmful in contact with skin.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H332	Harmful if inhaled.	
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H411	Toxic to aquatic life with long lasting effects.	
Resp. Sens. 1	Respiratory sensitisation, Category 1	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis	

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H336	Calculation method
STOT SE 3	H335	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.