

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878
Issue date: 10/21/2011 Revision date: 1/2/2023 Supersedes version of: 6/1/2017 Version: 4.00

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

1.1. Product identifier

Product form : Mixture
Name : Acrylic Clearcoat
Trade name : KLAR 565

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

Supplier

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 2

Skin sensitisation, Category 1

Carcinogenicity, Category 2

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

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)







GHS02

GHS07

GHS08

Signal word (CLP) Contains

: Danger

: isobutyl methyl ketone

Hazard statements (CLP)

H225 - Highly flammable liquid and vapour.
 H317 - May cause an allergic skin reaction.
 H336 - May cause drowsiness or dizziness.

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H351 - Suspected of causing cancer.

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.

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

P312 - Call doctor if you feel unwell.

EUH-statements : EUH066 - Repeated exposure may cause skin dryness or cracking.

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-	20 – 30	Flam. Liq. 3, H226 STOT SE 3, H336
heptan-2-one; methyl amyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 110-43-0 EC-No.: 203-767-1 EC Index-No.: 606-024-00-3 REACH-no: 01-2119902391-	5 – 13	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332
isobutyl methyl ketone substance with national workplace exposure limit(s) (GB); substance with a Community workplace exposure limit	CAS-No.: 108-10-1 EC-No.: 203-550-1 EC Index-No.: 606-004-00-4 REACH-no: 01-2119473980- 30	5 – 8	Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation), H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336
Hydrocarbons, C9, aromatics	EC-No.: 918-668-5 REACH-no: 01-2119455851- 35	< 3	Flam. Liq. 3, H226 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
reaction mass of α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -hydroxypoly(oxyethylene) and α -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl- ω -3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	CAS-No.: 104810-48- 2+104810-47-1+ 25322-68-3 EC-No.: 400-830-7 EC Index-No.: 607-176-00-3 REACH-no: 01-2119472279- 28	< 1.6	Skin Sens. 1, H317 Aquatic Chronic 2, H411

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	CAS-No.: 1065336-91-5 EC-No.: 915-687-0 REACH-no: 01-2119491304- 40	< 0.9	Skin Sens. 1A, H317 Repr. 2, H361f Aquatic Acute 1, H400 Aquatic Chronic 1, H410
pentaerythritol tetrakis(3-mercaptopropionate)	CAS-No.: 7575-23-7 EC-No.: 231-472-8 REACH-no: 01-2119486981- 23	< 0.2	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane	CAS-No.: 77-58-7 EC-No.: 201-039-8 EC Index-No.: 050-030-00-3 REACH-no: 01-2119496068- 27	< 0.18	Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360FD STOT SE 1, H370 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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. 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

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.

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

n-butyl acetate (123-86-4)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	n-Butyl acetate	
IOEL TWA [ppm]	50 ppm	

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n-butyl acetate (123-86-4)	
IOEL STEL	723 mg/m³
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
heptan-2-one; methyl amyl ketone (110-43-0)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Heptan-2-one
IOEL TWA [ppm]	50 ppm
IOEL STEL	475 mg/m³
IOEL STEL [ppm]	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	Heptan-2-one
WEL TWA (OEL TWA) [1]	237 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	475 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
isobutyl methyl ketone (108-10-1)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	4-Methylpentan-2-one
IOEL TWA [ppm]	20 ppm
IOEL STEL	208 mg/m³
IOEL STEL [ppm]	50 ppm
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
United Kingdom - Occupational Exposure Limits	
Local name	4-Methylpentan-2-one
WEL TWA (OEL TWA) [1]	208 mg/m³
WEL TWA (OEL TWA) [2]	50 ppm
WEL STEL (OEL STEL)	416 mg/m ³

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isobutyl methyl ketone (108-10-1)	
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
United Kingdom - Biological limit values	
Local name	4-methylpentan-2-one
BMGV	20 μmol/l Parameter: 4-methylpentan-2-one - Medium: urine - Sampling time: Post shift
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

Monitoring methods	
9	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

n-butyl acetate (123-86-4)			

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Long-term - systemic effects, inhalation DNELDMEL (General population) Long-term - systemic effects, coral Long-term - systemic effects, coral Long-term - systemic effects, demal Long-term - systemic effects, demal Long-term - systemic effects, demal PNEC daya (freshwater) PNEC daya (freshwater) PNEC aqua (infermitterit, freshwater) PNEC aqua (infermitterit, freshwater) PNEC aqua (infermitterit, freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (freshwater) PNEC sediment (marine water) DNELDMEL (Workers) Long-term - systemic effects, demal DNELDMEL (General population) Long-term - systemic effects, demal Long-term - systemic effects, demal DNELDMEL (General population) Long-term - systemic effects, demal DNELDMEL (General population	heptan-2-one; methyl amyl ketone (110-43-0)			
Long-term - systemic effects, inhalation 84.31 mg/m³ 84.32 mg/kg bodyweight/day 84.32 mg/kg bodyweight/day 84.32 mg/kg bodyweight/day 84.33 mg/m³ 84.3	Long-term - systemic effects, inhalation	394.25 mg/m³		
Long-term - systemic effects, inhalation	DNEL/DMEL (General population)			
Description	Long-term - systemic effects,oral	23.32 mg/kg bodyweight/day		
PNEC (Water) PNEC aqua (freshwater)	Long-term - systemic effects, inhalation	84.31 mg/m³		
PNEC aqua (freshwater)	Long-term - systemic effects, dermal	23.32 mg/kg bodyweight/day		
PNEC aqua (marine water) 0.00982 mg/l PNEC aqua (intermittent, freshwater) 0.982 mg/l PNEC (Sediment) PNEC (Sediment) PNEC Sediment (freshwater) 1.89 mg/kg dwt PNEC sediment (freshwater) 0.189 mg/kg dwt PNEC sediment (marine water) 0.321 mg/kg dwt PNEC sediment (preshwater) 12.5 mg/l Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5) DNEL/DMEL (Workers) Long-term - systemic effects, dermal 0.5 mg/kg bodyweight/day Long-term - systemic effects, inhalation 0.68 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, inhalation 0.17 mg/m² Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day Long-term - systemic effects, dermal 0.020 mg/l PNEC (Water) PNEC (Quater) PNEC (Sediment) PNEC (Sedi	PNEC (Water)	,		
PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC (Sediment) PNEC (Sediment (freshwater) PNEC sediment (freshwater) PNEC soil PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC Sowago treatment plant 12.5 mg/l Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (106538-91-5) DNEL/DMEL (Workers) DNEL/DMEL (General population) Long-term - systemic effects, dermal 0.5 mg/kg bodyweight/day DNEL/DMEL (General population) Long-term - systemic effects, inhalation 0.7 mg/m² DNEL/DMEL (General population) Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day DNEL/DMEL (General population) Long-term - systemic effects, dermal 0.05 mg/kg bodyweight/day PNEC (Water) PNEC (aqua (freshwater) 0.0092 mg/l PNEC aqua (freshwater) 0.0092 mg/l PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC (Sediment) PNEC (Sediment) PNEC (Sediment) PNEC (Sediment) PNEC (Soil)	PNEC aqua (freshwater)	0.0982 mg/l		
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Long-term - systemic effects, dermal 0.5 mg/kg bodyweight/day Long-term - systemic effects, inhalation 0.68 mg/m³ DNEL/DMEL (General population) Long-term - systemic effects, oral 0.05 mg/kg bodyweight/day Long-term - systemic effects, inhalation 0.17 mg/m³ Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.0022 mg/l PNEC aqua (marine water) 0.0092 mg/l PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC (Sediment) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC swage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)		-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Long-term - systemic effects, inhalation DNEL/DMEL (General population) Long-term - systemic effects, oral Long-term - systemic effects, inhalation Long-term - systemic effects, dermal Double of the systemic effects, oral Double of	DNEL/DMEL (Workers)			
DNEL/DMEL (General population) Long-term - systemic effects, oral 0.05 mg/kg bodyweight/day Long-term - systemic effects, inhalation 0.17 mg/m³ Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day PNEC (Water) PNEC (Water) PNEC aqua (freshwater) 0.0022 mg/l PNEC aqua (marine water) 0.00022 mg/l PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC (Sediment) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC (Soil) PNEC soil 0.21 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyItin dilaurate; dibutyI[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	Long-term - systemic effects, dermal	0.5 mg/kg bodyweight/day		
Long-term - systemic effects, oral Long-term - systemic effects, inhalation 0.17 mg/m³ Long-term - systemic effects, inhalation 0.25 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC aqua (intermittent, freshwater) PNEC sediment) PNEC sediment (freshwater) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.21 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	Long-term - systemic effects, inhalation	0.68 mg/m³		
Long-term - systemic effects, inhalation 0.17 mg/m³ Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 0.0022 mg/l PNEC aqua (marine water) 0.0092 mg/l PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC sediment) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	DNEL/DMEL (General population)			
Long-term - systemic effects, dermal 0.25 mg/kg bodyweight/day PNEC (Water) PNEC aqua (freshwater) 0.0022 mg/l PNEC aqua (marine water) 0.00022 mg/l PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC (Sediment) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	Long-term - systemic effects,oral	0.05 mg/kg bodyweight/day		
PNEC (Water) PNEC aqua (freshwater) 0.0022 mg/l PNEC aqua (marine water) 0.00022 mg/l PNEC aqua (intermittent, freshwater) 0.009 mg/l PNEC (Sediment) PNEC (Sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC sediment (marine water) 0.21 mg/kg dwt PNEC (Soil) PNEC soil 0.21 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	Long-term - systemic effects, inhalation	0.17 mg/m³		
PNEC aqua (freshwater) PNEC aqua (marine water) PNEC aqua (intermittent, freshwater) PNEC (Sediment) 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 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	Long-term - systemic effects, dermal	0.25 mg/kg bodyweight/day		
PNEC aqua (marine water) PNEC (Sediment) PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC (Water)			
PNEC aqua (intermittent, freshwater) PNEC (Sediment) PNEC sediment (freshwater) 1.05 mg/kg dwt PNEC sediment (marine water) 0.11 mg/kg dwt PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC aqua (freshwater)	0.0022 mg/l		
PNEC (Sediment) PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC (Soil) PNEC (STP) PNEC sewage treatment plant dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) PNEL/DMEL (Workers)	PNEC aqua (marine water)	0.00022 mg/l		
PNEC sediment (freshwater) PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC soil PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC aqua (intermittent, freshwater)	0.009 mg/l		
PNEC sediment (marine water) PNEC (Soil) PNEC soil PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC (Sediment)			
PNEC (Soil) PNEC soil 0.21 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC sediment (freshwater)	1.05 mg/kg dwt		
PNEC soil 0.21 mg/kg dwt PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC sediment (marine water)	0.11 mg/kg dwt		
PNEC (STP) PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC (Soil)			
PNEC sewage treatment plant 1 mg/l dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC soil	0.21 mg/kg dwt		
dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7) DNEL/DMEL (Workers)	PNEC (STP)			
DNEL/DMEL (Workers)	PNEC sewage treatment plant	1 mg/l		
	dibutyltin dilaurate; dibutyl[bis(dodecanoylox	(y)] stannane (77-58-7)		
Acute - systemic effects, dermal 2.08 mg/kg bodyweight/day	DNEL/DMEL (Workers)			
I	Acute - systemic effects, dermal	2.08 mg/kg bodyweight/day		

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dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)				
Acute - systemic effects, inhalation	0.059 mg/m³			
Long-term - systemic effects, dermal	0.43 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	0.02 mg/m³			
DNEL/DMEL (General population)				
Acute - systemic effects, dermal	0.5 mg/kg bodyweight/day			
Acute - systemic effects, inhalation	0.04 mg/m³			
Acute - systemic effects, oral	0.02 mg/kg bodyweight/day			
Long-term - systemic effects,oral	0.0031 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	0.0046 mg/m³			
Long-term - systemic effects, dermal	0.16 mg/kg bodyweight/day			
PNEC (Water)				
PNEC aqua (freshwater)	0.000463 mg/l			
PNEC aqua (marine water)	0.0000463 mg/l			
PNEC aqua (intermittent, freshwater)	0.00463 mg/l			
PNEC aqua (intermittent, marine water)	0.00463 mg/l			
PNEC (Sediment)				
PNEC sediment (freshwater)	0.05 mg/kg dwt			
PNEC sediment (marine water)	0.005 mg/kg dwt			
PNEC (Soil)				
PNEC soil	0.0407 mg/kg dwt			
PNEC (Oral)				
PNEC oral (secondary poisoning)	0.2 mg/kg food			
PNEC (STP)				
PNEC sewage treatment plant	100 mg/l			
pentaerythritol tetrakis(3-mercaptopropionate	e) (7575-23-7)			
DNEL/DMEL (Workers)				
Acute - local effects, inhalation	40.13 mg/m³			
Long-term - systemic effects, dermal	5 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	1.74 mg/m³			
Long-term - local effects, inhalation	40.13 mg/m³			
DNEL/DMEL (General population)				
Acute - local effects, inhalation	20.07 mg/m³			
Long-term - systemic effects,oral	0.25 mg/kg bodyweight/day			
Long-term - systemic effects, inhalation	0.43 mg/m³			
Long-term - systemic effects, dermal	2.5 mg/kg bodyweight/day			
Long-term - local effects, inhalation	20.07 mg/m³			
PNEC (Water)	PNEC (Water)			
PNEC aqua (freshwater)	0.03 μg/l			

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pentaerythritol tetrakis(3-mercaptopropionate) (7575-23-7)			
PNEC aqua (intermittent, freshwater)	0.34 μg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	1.02 μg/kg dw		
PNEC sediment (marine water)	0.102 μg/kg dw		
PNEC (Soil)	,		
PNEC soil	0.184 μg/kg dw		
PNEC (STP)			
PNEC sewage treatment plant	2.39 mg/l		
isobutyl methyl ketone (108-10-1)			
DNEL/DMEL (Workers)			
Acute - systemic effects, inhalation	208 mg/m³		
Acute - local effects, inhalation	208 mg/m³		
Long-term - systemic effects, dermal	11.8 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	83 mg/m³		
Long-term - local effects, inhalation	83 mg/m³		
DNEL/DMEL (General population)			
Acute - systemic effects, inhalation	155.2 mg/m³		
Acute - local effects, inhalation	155.2 mg/m³		
Long-term - systemic effects,oral	4.2 mg/kg bodyweight/day		
Long-term - systemic effects, inhalation	14.7 mg/m³		
Long-term - systemic effects, dermal	4.2 mg/kg bodyweight/day		
Long-term - local effects, inhalation	14.7 mg/m³		
PNEC (Water)			
PNEC aqua (freshwater)	0.6 mg/l		
PNEC aqua (marine water)	0.06 mg/l		
PNEC aqua (intermittent, freshwater)	1.5 mg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	8.27 mg/kg dwt		
PNEC sediment (marine water)	0.83 mg/kg dwt		
PNEC (Soil)			
PNEC soil	1.3 mg/kg dwt		
PNEC (STP)			
PNEC sewage treatment plant	27.5 mg/l		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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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

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 : Liquid Colour : Colourless. Odour characteristic. Odour threshold : No data available Melting point : Not applicable : Not available Freezing point : 114 - 117 °C Boiling point : Not applicable Flammability Explosive properties : No data available. Explosive limits : Not available

Lower explosion limit : 1.3 vol % 4-methylpentan-2-one; isobutyl methyl ketone Upper explosion limit : 8 vol % 4-methylpentan-2-one; isobutyl methyl ketone

Flash point : 14 °C Auto-ignition temperature : ≈ 370 °C

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Decomposition temperature : Not available рΗ : Not applicable Viscosity, kinematic : Not available Solubility Slightly soluble. Partition coefficient n-octanol/water (Log Kow) : Not available 21 hPa Vapour pressure Vapour pressure at 50°C : Not available Density 1 g/cm³ 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

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) : 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)

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		
Hydrocarbons, C9, aromatics		
LD50 dermal rabbit	> 3160 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	

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	> 6193 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Remarks on results: other: 3-0) ≈ 1600 mg/kg bodyweight Animal: rat, Remarks on results: other: > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) > 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation))	
LD50 oral rat LD50 dermal rat LC50 Inhalation - Rat LC50 Inhalation - Rat (Vapours) Reaction mass of Bis(1,2,2,6,6-pentameth	 ≈ 1600 mg/kg bodyweight Animal: rat, Remarks on results: other: > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) > 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), 	
LC50 Inhalation - Rat LC50 Inhalation - Rat (Vapours) Reaction mass of Bis(1,2,2,6,6-pentameth	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) > 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity),	
LC50 Inhalation - Rat LC50 Inhalation - Rat (Vapours) Reaction mass of Bis(1,2,2,6,6-pentameth	Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal)) > 16.7 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity),	
LC50 Inhalation - Rat (Vapours) Reaction mass of Bis(1,2,2,6,6-pentameth		
Reaction mass of Bis(1,2,2,6,6-pentameth		
	> 16.7 mg/l Source: ECHA	
(1065336-91-5)	hyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
LD50 oral rat	3230 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), 95% CL: 2615 - 4247	
LD50 dermal rat	> 3170 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
dibutyltin dilaurate; dibutyl[bis(dodecand	pyloxy)] stannane (77-58-7)	
LD50 oral rat	2071 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other:, 95% CL: 1207 - 5106	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
LC50 Inhalation - Rat	> 2000 mg/kg	
pentaerythritol tetrakis(3-mercaptopropio	onate) (7575-23-7)	
LD50 oral rat	1000 – 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Remarks on results: other:	
LC50 Inhalation - Rat	> 3363 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity), Remarks on results: other:	
isobutyl methyl ketone (108-10-1)		
LD50 oral rat	2080 mg/kg Source: ECHA	
LD50 dermal rabbit	≥ 2000 mg/kg Source: ECHA	
LC50 Inhalation - Rat (Vapours)	11.6 mg/l Source: ECHA	
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: Not applicable	
n-butyl acetate (123-86-4)	pri. Not approasie	
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) pH: Not applicable	
n-butyl acetate (123-86-4)		
рН	6.2 Temp.: 20 °C Concentration: 5,3 g/L	
Respiratory or skin sensitisation	: May cause an allergic skin reaction.	
Germ cell mutagenicity Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)Suspected of causing cancer.	

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isobutyl methyl ketone (108-10-1)		
IARC group	2B - Possibly carcinogenic to humans	
Reproductive toxicity STOT-single exposure	Not classified (Based on available data, the classification criteria are not met) May cause drowsiness or dizziness.	
n-butyl acetate (123-86-4)	. May cause drowshiess of dizziness.	
STOT-single exposure	May cause drowsiness or dizziness.	
Hydrocarbons, C9, aromatics	may cause are no more or a linear control of the co	
STOT-single exposure	May cause drowsiness or dizziness. May cause respiratory irritation.	
dibutyltin dilaurate; dibutyl[bis(dodecan		
STOT-single exposure	Causes damage to organs.	
isobutyl methyl ketone (108-10-1)	Jacobs Carriago to Organio.	
STOT-single exposure	May cause drowsiness or dizziness.	
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)	
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)	
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)	
Reaction mass of Bis(1,2,2,6,6-pentamet (1065336-91-5)	hyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))	
dibutyltin dilaurate; dibutyl[bis(dodecan-	oyloxy)] stannane (77-58-7)	
STOT-repeated exposure	Causes damage to organs (immune system) through prolonged or repeated exposure.	
pentaerythritol tetrakis(3-mercaptopropi	onate) (7575-23-7)	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat, Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
isobutyl methyl ketone (108-10-1)		
LOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90- Day Oral Toxicity Study in Rodents)	
NOAEC (inhalation, rat, vapour, 90 days)	4106 mg/l air Animal: rat, Guideline: OECD Guideline 413 (Subchronic Inhalation Toxicity 90-Day Study)	
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)'	

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heptan-2-one; methyl amyl ketone (110-43-0)	
Viscosity, kinematic	0.979 mm²/s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm²/s)'
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)	
Viscosity, kinematic	478 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

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

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

Not rapidly degradable

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'	
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)	
heptan-2-one; methyl amyl ketone (110-43-0)	
LC50 - Fish [1]	131 mg/l Test organisms (species): Pimephales promelas	
EC50 - Crustacea [1]	> 90.1 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	98.2 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
EC50 72h - Algae [2]	75.5 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)	
Reaction mass of Bis(1,2,2,6,6-pentamethyl-(1065336-91-5)	4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
LC50 - Fish [1]	0.9 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)	
EC50 72h - Algae [1]	1.68 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	

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Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (1065336-91-5)	
EC50 72h - Algae [2]	0.42 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
dibutyltin dilaurate; dibutyl[bis(dodecanoylo	xy)] stannane (77-58-7)
LC50 - Fish [1]	21.2 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1.7 – 3.4 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	< 463 μg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
pentaerythritol tetrakis(3-mercaptopropionat	e) (7575-23-7)
LC50 - Fish [1]	0.034 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 0.35 mg/l Test organisms (species): Daphnia magna
	> 0.00 mg/r rest organisms (species). Daprina magna
EC50 72h - Algae [1]	> 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [1] EC50 96h - Algae [1]	> 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name:
Ü	> 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	> 0.12 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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	
heptan-2-one; methyl amyl ketone (110-43-0)		
Partition coefficient n-octanol/water (Log Pow) 2.26 Source: ECHA		
dibutyltin dilaurate; dibutyl[bis(dodecanoyloxy)] stannane (77-58-7)		
Partition coefficient n-octanol/water (Log Pow) 4.44 Source: ECHA		
isobutyl methyl ketone (108-10-1)		
Partition coefficient n-octanol/water (Log Pow) 1.31 Source: ChemIDPlus		

12.4. Mobility in soil

pentaerythritol tetrakis(3-mercaptopropionate) (7575-23-7)	
Mobility in soil	225300 Source: Quantitative Structure Activity Relation

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

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12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste)

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

European List of Waste (LoW) code

: 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

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, II, (D/E)	UN 1866 RESIN SOLUTION, 3, II (14°C c.c.)	UN 1866 Resin solution, 3, II
14.3. Transport hazard class(es)		
3	3	3
3	3	3
14.4. Packing group		
II	II	II
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	1	

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 2

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

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Transport by sea

Limited quantities (IMDG) : 5 L
Special packing provisions (IMDG) : PP1
EmS-No. (Fire) : F-E
EmS-No. (Spillage) : S-E
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

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 substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): dibutyltin dilaurate (77-58-7)

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

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Abbreviations and acronyms:		
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
VOC	Volatile Organic Compounds	
CAS-No.	Chemical Abstract Service number	
N.O.S.	Not Otherwise Specified	
vPvB	Very Persistent and Very Bioaccumulative	
ED	Endocrine disrupting properties	

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 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4

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Full text of H- and EUH-statements:			
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Asp. Tox. 1	Aspiration hazard, Category 1		
Carc. 2	Carcinogenicity, Category 2		
EUH066	Repeated exposure may cause skin dryness or cracking.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
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.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airways.		
H314	Causes severe skin burns and eye damage.		
H317	May cause an allergic skin reaction.		
H318	Causes serious eye damage.		
H319	Causes serious eye irritation.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H336	May cause drowsiness or dizziness.		
H341	Suspected of causing genetic defects.		
H351	Suspected of causing cancer.		
H360FD	May damage fertility. May damage the unborn child.		
H361f	Suspected of damaging fertility.		
H370	Causes damage to organs.		
H372	Causes damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H410	Very toxic to aquatic life with long lasting effects.		
H411	Toxic to aquatic life with long lasting effects.		
H412	Harmful to aquatic life with long lasting effects.		
Muta. 2	Germ cell mutagenicity, Category 2		
Repr. 1B	Reproductive toxicity, Category 1B		
Repr. 2	Reproductive toxicity, Category 2		
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C		
Skin Sens. 1	Skin sensitisation, Category 1		
Skin Sens. 1A	Skin sensitisation, category 1A		
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1		

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Full text of H- and EUH-statements:		
STOT SE 1	Specific target organ toxicity – single exposure, Category 1	
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 Sens. 1	H317	Calculation method		
Carc. 2	H351	Calculation method		
STOT SE 3	H336	Calculation method		
Aquatic Chronic 3	H412	Expert judgment		

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.