



Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 30.03.2021

Version number 1

Revision: 30.03.2021

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

- 1.1 Product identifier
- Trade name: **ZENITH HS420 Quick-Dry Clear Coat 2:1**
- Article number: Z9207
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the mixture Lacquer
- Uses advised against SU21 Consumer uses: Private households / general public / consumers
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
 - Kristal Coatings B.V.
 - Platinawerf 22B
 - 6641 TL Beuningen - Holland
 - Tel: 0031 24 67 526 36
 - Fax: 0031 24 67 533 60
- Further information obtainable from: Product safety department: info@kristalcoatings.nl
- 1.4 Emergency telephone number:
 - National Poisoning Information Centre - Bilthoven - The Netherlands
 - T +31 (0)30 274 88 88
 - Restricted to physicians for information on ingredients.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS02



GHS07

- Signal word Danger
- Hazard statements
 - H225 Highly flammable liquid and vapour.
 - H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
 - H412 Harmful to aquatic life with long lasting effects.
- Precautionary statements
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P284 In case of inadequate ventilation wear respiratory protection.
 - P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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P332+P313 If skin irritation occurs: Get medical advice/attention.

· **Additional information:**

EUH208 Contains 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), Reaction mass of pentamethylpiperidyl sebacat. May produce an allergic reaction.

Restricted to professional users.

· **2.3 Other hazards**· **Results of PBT and vPvB assessment**

· PBT: Not applicable.

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**· **Description:** Mixture of substances listed below with nonhazardous additions.· **Dangerous components %(m/m):**

EC number: 918-668-5	Hydrocarbons, C9, aromatics	10-25%
Reg.nr.: 01-2119455851-35	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	
CAS: 108-10-1	4-methylpentan-2-one	10-25%
EINECS: 203-550-1	⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
Reg.nr.: 01-2119473980-30		
CAS: 123-86-4	n-butyl acetate	2.5-10%
EINECS: 204-658-1	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119485493-29		
EC number: 905-588-0	Reaction mass of ethylbenzene and xylene	2.5-10%
Reg.nr.: 01-2119488216-32	⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 1330-20-7	xylene	2.5-10%
EINECS: 215-535-7	⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H312;	
Reg.nr.: 01-2119488216-32	⚠ Acute Tox. 4, H332; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319	
CAS: 112-07-2	2-butoxyethyl acetate	0.5-2.5%
EINECS: 203-933-3	⚠ Acute Tox. 4, H302; ⚠ Acute Tox. 4, H312; ⚠ Acute Tox. 4, H332	
Reg.nr.: 01-2119475112-47		
ELINCS: 400-830-7	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)	0.5-2.5%
Reg.nr.: 01-0000015075-76	⚠ Aquatic Chronic 2, H411; ⚠ Skin Sens. 1, H317	
Reg.nr.: 01-2119491304-40	Reaction mass of pentamethylpiperidyl sebacat	≤0.5%
	⚠ Aquatic Acute 1, H400; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Sens. 1, H317	
CAS: 77-58-7	dibutyltin dilaurate	≤0.5%
EINECS: 201-039-8	⚠ Muta. 2, H341; Repr. 1B, H360FD; STOT RE 1, H372	
Reg.nr.: 01-2119496068-27		

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· **4.1 Description of first aid measures**· **General information:** Immediately remove any clothing soiled by the product.· **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.· **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Remove contactlenses.

· **After swallowing:**

Do not induce vomiting; call for medical help immediately.

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- Rinse out mouth and then drink plenty of water.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO₂ or powder. Fight larger fights with alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water spray
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
Collect leaking fluid in lockable waste containers.
- 6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- Information about fire - and explosion protection:
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
Requirements to be met by storerooms and receptacles:
Store in a cool location.
Store only in the original receptacle.
- Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Additional information about design of technical facilities: No further data; see item 7.
- Ingredients with limit values that require monitoring at the workplace:

108-10-1 4-methylpentan-2-one

IOELV Short-term value: 208 mg/m³, 50 ppm
Long-term value: 83 mg/m³, 20 ppm

123-86-4 n-butyl acetate

IOELV Short-term value: 723 mg/m³, 150 ppm
Long-term value: 241 mg/m³, 50 ppm

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1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
 Long-term value: 221 mg/m³, 50 ppm
 Skin

112-07-2 2-butoxyethyl acetate

IOELV Short-term value: 333 mg/m³, 50 ppm
 Long-term value: 133 mg/m³, 20 ppm
 Skin

DNELs**Hydrocarbons, C9, aromatics**

Dermal Long-term exposure - systemic effects 25 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 150 mg/m³ (worker)

108-10-1 4-methylpentan-2-one

Dermal Long-term exposure - systemic effects 11.8 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 208 mg/m³ (worker)
 Acute - short-term exposure - local effects 208 mg/m³ (worker)
 Long-term exposure - systemic effects 83 mg/m³ (worker)
 Long-term exposure - local effects 83 mg/m³ (worker)

123-86-4 n-butyl acetate

Inhalative Acute - short-term exposure - systemic effects 600 mg/m³ (worker)
 Acute - short-term exposure - local effects 600 mg/m³ (worker)
 Long-term exposure - systemic effects 300 mg/m³ (worker)
 Long-term exposure - local effects 300 mg/m³ (worker)

Reaction mass of ethylbenzene and xylene

Dermal Long-term exposure - systemic effects 212 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 442 mg/m³ (worker)
 Acute - short-term exposure - local effects 442 mg/m³ (worker)
 Long-term exposure - systemic effects 221 mg/m³ (worker)
 Long-term exposure - local effects 221 mg/m³ (worker)

1330-20-7 xylene

Dermal Long-term exposure - systemic effects 180 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 289 mg/m³ (worker)
 Acute - short-term exposure - local effects 289 mg/m³ (worker)
 Long-term exposure - systemic effects 77 mg/m³ (worker)

112-07-2 2-butoxyethyl acetate

Dermal Acute - short-term exposure - systemic effects 102 mg/kg bw/day (worker)
 Long-term exposure - systemic effects 102 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 775 mg/m³ (worker)
 Acute - short-term exposure - local effects 333 mg/m³ (worker)
 Long-term exposure - systemic effects 133 mg/m³ (worker)

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)

Dermal Long-term exposure - systemic effects 0.5 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 0.35 mg/m³ (worker)

Reaction mass of pentamethylpiperidyl sebacat

Dermal Acute - short-term exposure - systemic effects 2.5 mg/kg bw/day (worker)
 Long-term exposure - systemic effects 2.5 mg/kg bw/day (worker)
 Inhalative Acute - short-term exposure - systemic effects 2.35 mg/m³ (worker)
 Long-term exposure - systemic effects 2.35 mg/m³ (worker)

77-58-7 dibutyltin dilaurate

Dermal Long-term exposure - systemic effects 0.43 mg/kg bw/day (worker)
 Inhalative Long-term exposure - systemic effects 0.02 mg/m³ (worker)

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PNECs**108-10-1 4-methylpentan-2-one**

PNEC 0.83 mg/kg (sediment marine water)

8.27 mg/kg (sediment freshwater)

1.3 mg/kg (soil)

PNEC 27.5 mg/l (STP)

0.6 mg/l (aqua, freshwater)

1.5 mg/l (aqua, intermittent releases)

0.06 mg/l (aqua, marine water)

123-86-4 n-butyl acetate

PNEC mg/kg (rat)

0.981 mg/kg (sediment freshwater)

PNEC 35.6 mg/l (STP)

0.18 mg/l (aqua, freshwater)

0.36 mg/l (aqua, intermittent releases)

0.018 mg/l (aqua, marine water)

0.0981 mg/l (sediment marine water)

Reaction mass of ethylbenzene and xylene

PNEC 12.46 mg/kg (sediment marine water)

12.46 mg/kg (sediment freshwater)

2.31 mg/kg (soil)

PNEC 6.58 mg/l (STP)

0.327 mg/l (aqua, freshwater)

0.327 mg/l (aqua, marine water)

1330-20-7 xylene

PNEC 12.46 mg/kg (sediment marine water)

12.46 mg/kg (sediment freshwater)

PNEC 6.58 mg/l (STP)

0.237 mg/l (aqua, freshwater)

0.327 mg/l (aqua, intermittent releases)

0.327 mg/l (aqua, marine water)

112-07-2 2-butoxyethyl acetate

PNEC 0.203 mg/kg (sediment marine water)

2.03 mg/kg (sediment freshwater)

0.68 mg/kg (soil)

PNEC 90 mg/l (STP)

0.304 mg/l (aqua, freshwater)

0.56 mg/l (aqua, intermittent releases)

0.0304 mg/l (aqua, marine water)

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)

PNEC 2 mg/kg (bd)

0.306 mg/kg (sediment marine water)

3.06 mg/kg (sediment freshwater)

PNEC 10 mg/l (STP)

0.00023 mg/l (aqua, marine water)

0.0023 mg/l (aqua freshwater)

0.028 mg/l (intermittent release water)

Reaction mass of pentamethylpiperidyl sebacat

PNEC 0.21 mg/kg (bd)

0.11 mg/kg (sediment marine water)

1.05 mg/kg (sediment freshwater)

PNEC 1 mg/l (STP)

0.0022 mg/l (aqua, freshwater)

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0.00022 mg/l (aqua, marine water)
0.009 mg/l (intermittent release water)

77-58-7 dibutyltin dilaurate

PNEC 0.2 mg/kg (food)
0.005 mg/kg (sediment marine water)
0.041 mg/kg (soil)
PNEC 100 mg/l (STP)
0 mg/l (aqua, freshwater)
0 mg/l (aqua, marine water)

· **Additional Occupational Exposure Limit Values for possible hazards during processing:**

1330-20-7 xylene

IOELV Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 50 ppm
Skin

100-41-4 ethylbenzene

IOELV Short-term value: 884 mg/m³, 200 ppm
Long-term value: 442 mg/m³, 100 ppm
Skin

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

· **Respiratory protection:**

Short term filter device:
Filter A.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Suitable materials for safety gloves (EN 374):
Nitrile rubber, NBR

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Solvent resistant protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Fluid

Colour: Clear

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

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· pH-value:	Not determined.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	≥114-≤117 °C (108-10-1 4-methylpentan-2-one)
· Flash point:	16 °C
· Flammability (solid, gas):	Not applicable.
· Ignition temperature:	≥370 °C (123-86-4 n-butyl acetate)
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	≥0.7 Vol % (Hydrocarbons, C9, aromatics)
Upper:	≤9 Vol % (108-10-1 4-methylpentan-2-one)
· Vapour pressure at 20 °C:	≥2.1-≤13 hPa (Hydrocarbons, C9, aromatics)
· Density at 20 °C:	0.97 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Slightly soluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic at 20 °C:	30-32 s (DIN 53211/4)
· Solvent content:	
Organic solvents:	44.9 %
VOC (EC)	44.94 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures.
- 10.5 Incompatible materials: Oxidizing agents
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- LD/LC50 values relevant for classification:

Hydrocarbons, C9, aromatics

Oral	LD50	3,592 mg/kg (rat)
Dermal	LD50	>3,160 ml/kg (rabbit)
Inhalative	LC50/4h	>10.2 mg/l (rat)

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108-10-1 4-methylpentan-2-one

Oral LD50 2,080 mg/kg (rat)
 Dermal LD50 >2,000 mg/kg (rabbit)
 Inhalative LC50/4h 8.2-16.4 mg/l (rat)

123-86-4 n-butyl acetate

Oral LD50 10,760 mg/kg (rat) (OECD 423)
 Dermal LD50 >14,112 mg/kg (rabbit) (OECD 402)
 Inhalative LC50/4h 23.4 mg/l (rat) (OECD 403 in vivo, aerosol)

Reaction mass of ethylbenzene and xylene

Oral LD50 3,523 mg/kg (rat)
 Dermal LD50 12,126 mg/kg bw (rabbit)
 Inhalative LC50/4h 27,124 mg/m3 (rat)

1330-20-7 xylene

Oral LD50 2,000-5,000 mg/kg (/)
 Inhalative LC50 10-20 mg/l (/)

112-07-2 2-butoxyethyl acetate

Oral LD50 1,880 mg/kg (rat)
 Dermal LD50 1,500 mg/kg (rabbit)
 Inhalative LC50/4h 400 ppm (rat)

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)

Oral LD50 >5,000 mg/kg (rat) (OESO 401)
 Dermal LD50 >2,000 ml/kg (rat) (OESO 402)

77-58-7 dibutyltin dilaurate

Oral LD50 2,071 mg/kg (rat) (OECD 401)
 Dermal LD50 >2,000 mg/kg (rabbit) (OECD 402)

- Primary irritant effect:
- Skin corrosion/irritation
Causes skin irritation.
- Serious eye damage/irritation
Causes serious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

Hydrocarbons, C9, aromatics

LL50/96h 9.2 mg/l (oncorhynchus mykiss) (OESO 203)

108-10-1 4-methylpentan-2-one

EC50/96h 400 mg/l (algae)
 EC50/48h >200 mg/l (daphnia magna)
 LC50/96h >179 mg/l (fish)

123-86-4 n-butyl acetate

EC50/48h 44 mg/l (daphnia magna)

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EC50/72h	647.7 mg/l (desmodesmus supspicatus)
IC50	356 mg/l (tetrahymena pyriformis) (40 h)
NOAEL/72h	200 mg/l (desmodesmus supspicatus)
LC50/96h	18 mg/l (pimphales promelas) (OECD 203)

Reaction mass of ethylbenzene and xylene

Oral EC50/73h	2.2 mg/l (rat)
EC50/48h	1 mg/l (daphnia magna)
LC50/96h	2.6 mg/l (oncorhynchus mykiss)

1330-20-7 xylene

NOAEL	0.1-1 mg/l (TISBE Marine copepod)
	1-10 mg/l (fish)
EC50/48h	7.4 mg/l (daphnia magna)
IC50	1-10 mg/l (TISBE Marine copepod)
	1-10 mg/l (algae)
	>100 mg/l (bacteria)
	1-10 mg/l (fish)

112-07-2 2-butoxyethyl acetate

EC50/48h	37 mg/l (daphnia)
EC50/72h	520 mg/l (algae)
LC50/96h	10-100 mg/l (leuciscus idus)

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)

NOEC/21d (dynamic)	0.78 mg/l (daphnia magna) (OESO 202)
EC10/72h (static)	10 mg/l (pseudokirchneriella subcapitata) (OESO 201)
EC50/3h (static)	>1,000 mg/l (ac) (OESO 209)
LC0/14d	>1,000 mg/kg (Eisenia foetida) (OESO 207)
NOEC/56d	100 mg/kg (Eisenia foetida) (OESO 222)
EC50/48h (static)	4 mg/l (daphnia magna) (OESO 202)
EC50/72h (static)	>9 mg/l (algae) (OESO 201)
LC50/96h (static)	mg/l (oncorhynchus mykiss)

Reaction mass of pentamethylpiperidyl sebacat

NOEC/21d (dynamic)	1 mg/l (daphnia magna) (OESO 211)
EC50/3h	>100 mg/l (ac) (OESO 209)
EC50/72h (static)	1.68 mg/l (desmodesmus supspicatus) (OESO 201)
EC50/24h	20 mg/l (daphnia magna) (OESO 202)
LC50/96h	0.97 mg/l (lepomis macrochirus) (OESO 203)
	0.9 mg/l (Brachydanio rerio) (OESO 203)
	7.9 mg/l (oncorhynchus mykiss) (OESO 203)

77-58-7 dibutyltin dilaurate

EC50/3h	1,000 mg/l (bacteria) (OECD 209)
EC50/48h	<1 mg/l (daphnia) (OECD 202)
EC50/72h	>1 mg/l (algae) (OECD 201)
LC50/96h	>3.1 mg/l (fish) (OECD 203)

· 12.2 Persistence and degradability No further relevant information available.

· Degree of elimination:

123-86-4 n-butyl acetate

OECD 301D 83 % (l) (28 d)

· 12.3 Bioaccumulative potential

Reaction mass of ethylbenzene and xylene

BCF	25.9 (l)
LogPow	<3.2 (l)

77-58-7 dibutyltin dilaurate

BCF	1.49-3.7 (l) (OECD 305)
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- LogPow 4.44 (/) (OECD 107)
- 12.4 Mobility in soil No further relevant information available.
- Ecotoxicological effects:
- Remark: Harmful to fish
- Additional ecological information:
- General notes:
 - Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 - Do not allow product to reach ground water, water course or sewage system.
 - Danger to drinking water if even small quantities leak into the ground.
 - Harmful to aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- European waste catalogue
 - 08 01 11* waste paint and varnish containing organic solvents or other hazardous substances
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- 14.1 UN-Number
 - ADR/ADN, IMDG, IATA UN1263
 - 14.2 UN proper shipping name
 - ADR/ADN 1263 PAINT
 - IMDG, IATA PAINT
 - 14.3 Transport hazard class(es)
 - ADR/ADN, IMDG, IATA
- 
- Class 3 Flammable liquids.
 - Label 3
 - 14.4 Packing group
 - ADR/ADN, IMDG, IATA II
 - 14.5 Environmental hazards: Not applicable.
 - 14.6 Special precautions for user Warning: Flammable liquids.
 - Hazard identification number (Kemler code): 33
 - EMS Number: F-E, S-E
 - Stowage Category A
 - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
 - Transport/Additional information:

-
- ADR/ADN
 - Limited quantities (LQ) 5L
 - Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
 - Transport category 2
 - Tunnel restriction code D/E

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- IMDG
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E2
- UN "Model Regulation": Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
UN 1263 PAINT, 3, II

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 20
- Regulation (EU) No 649/2012
- 77-58-7 dibutyltin dilaurate: Annex I Part 1
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- None of the ingredients is listed.
- REGULATION (EU) 2019/1148
- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
- Annex II - REPORTABLE EXPLOSIVES PRECURSORS
- None of the ingredients is listed.
- National regulations:
- Other regulations, limitations and prohibitive regulations
- The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- 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.
- H360FD May damage fertility. May damage the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause 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.

- Contact: Dhr. B. Peters

- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 VOC: Volatile Organic Compounds (USA, EU)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Skin Sens. 1: Skin sensitisation – Category 1
 Muta. 2: Germ cell mutagenicity – Category 2
 Repr. 1B: Reproductive toxicity – Category 1B
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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