

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.07.2023

V- 2.0 (replaces version 1.0)

Revision: 18.07.2023

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

#### 1.1 Product identifier

**Trade name:** 7400.10016 Diamond Clear Extreme 1L, 7400.10019 Diamond Clear Extreme 5L

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

Identified use: professional use.

#### Application of the substance / the mixture

Clear coating material, Varnish

#### 1.3 Details of the supplier of the safety data sheet

**Manufacturer/Supplier:** Abcon Industrial Products Ltd,  
CavMac Hose Building, Cavan Road,  
Cootehill, Co Cavan  
Tel. +353 49 5552340  
sales@abconireland.com

#### Further information obtainable from:

sales@abconireland.com

#### 1.4 Emergency telephone number:

+353 49 5552340 (9:00-17:00)

### \* SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008



GHS02

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



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H336 May cause drowsiness or dizziness.

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 GB CLP regulation.

#### Hazard pictograms



GHS02 GHS07

#### Signal word

Danger

#### Hazard-determining components of labelling:

n-butyl acetate  
pentaerythritol tetrakis(3-mercaptopropionate)  
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

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triisotridecyl phosphite  
dibutyltin dilaurate

### Hazard statements

H225 Highly flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

#### Determination of endocrine-disrupting properties

78-93-3 butanone: List II

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 123-86-4	n-butyl acetate	10-<20%
EINECS: 204-658-1	☠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119485493-29		
CAS: 110-43-0	heptan-2-one	2.5-<10%
EINECS: 203-767-1	☠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	
Reg.nr.: 01-2119902391-49		
CAS: 1330-20-7	xylene	2.5-10%
EINECS: 215-535-7	☠ 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; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119488216-32		
List no.: 918-668-5	hydrocarbons, C9, aromatics	1-5%
Reg.nr.: 01-2119455851-35	☠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	
CAS: 78-93-3	butanone	2.5-10%
EINECS: 201-159-0	☠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119457290-43		
CAS: 112-07-2	2-butoxyethyl acetate	1-5%
EINECS: 203-933-3	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	
Reg.nr.: 01-2119475112-47		

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CAS: 7575-23-7	pentaerythritol tetrakis(3-mercaptopropionate)	0.1-<2%
EINECS: 231-472-8	⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4,	
Reg.nr.: 01-2119486981-23	H302; Skin Sens. 1A, H317	
CAS: 127519-17-9	reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-	0.1-<2%
ELINCS: 407-000-3	dimethylethyl)-4-hydroxyphenyl]propionates	
Reg.nr.: 01-0000015648-61	⚠ Aquatic Chronic 2, H411	
List no.: 915-687-0	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl	0.1-<0.5%
Reg.nr.: 01-2119491304-40	1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
	⚠ Repr. 2, H361f; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1);	
	⚠ Skin Sens. 1A, H317	
CAS: 77745-66-5	triisotridecyl phosphite	0.1-<0.5%
EINECS: 278-758-9	⚠ Skin Sens. 1, H317; Aquatic Chronic 4, H413	
Reg.nr.: 01-2119487302-40		
CAS: 77-99-6	propylidynetrimethanol	0.1-1%
EINECS: 201-074-9	⚠ Repr. 2, H361fd	
Reg.nr.: 01-2119486799-10		
CAS: 77-58-7	dibutyltin dilaurate	0.1-<0.3%
EINECS: 201-039-8	⚠ Muta. 2, H341; Repr. 1B, H360FD; STOT SE 1, H370; STOT RE 1, H372;	
Reg.nr.: 01-2119496068-27	⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); ⚠ Eye Irrit. 2,	
	H319; Skin Sens. 1, H317	
List no.: 905-588-0	reaction mass of ethylbenzene and xylene	0-<1%
Reg.nr.: 01-2119539452-40	⚠ 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	

**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

<b>General information:</b>	Immediately remove any clothing soiled by the product. In case of irregular breathing or respiratory arrest provide artificial respiration. Take affected persons out of danger area and lay down.
<b>After inhalation:</b>	Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
<b>After skin contact:</b>	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
<b>After eye contact:</b>	Rinse opened eye for several minutes under running water.
<b>After swallowing:</b>	Do not induce vomiting; call for medical help immediately.

### 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.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing agents:** CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:**

Water with full jet

**5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.  
Carbon monoxide and carbon dioxide

**5.3 Advice for firefighters**

**Protective equipment:**

Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.

**Additional information**

Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.

**6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Do not flush with water or aqueous cleansing agents.  
Dispose of the material collected according to regulations.

**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**

Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Do not inhale gases / fumes / aerosols.  
Do not eat, drink, smoke or sniff while working.  
Do not allow to enter sewers/ surface or ground water.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Fumes can combine with air to form an explosive mixture.

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**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 foodstuffs.  
Store away from oxidising agents.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.  
Store receptacle in a well ventilated area.

**7.3 Specific end use(s)**

No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**123-86-4 n-butyl acetate**

WEL (Great Britain) Short-term value: 966 mg/m<sup>3</sup>, 200 ppm  
Long-term value: 724 mg/m<sup>3</sup>, 150 ppm

IOELV (EU) Short-term value: 723 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 241 mg/m<sup>3</sup>, 50 ppm

**110-43-0 heptan-2-one**

WEL (Great Britain) Short-term value: 475 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 237 mg/m<sup>3</sup>, 50 ppm  
Sk

IOELV (EU) Short-term value: 475 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 238 mg/m<sup>3</sup>, 50 ppm  
Skin

**1330-20-7 xylene**

WEL (Great Britain) Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 221 mg/m<sup>3</sup>, 50 ppm  
Skin

**78-93-3 butanone**

WEL (Great Britain) Short-term value: 899 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm  
Sk, BMGV

IOELV (EU) Short-term value: 900 mg/m<sup>3</sup>, 300 ppm  
Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

**112-07-2 2-butoxyethyl acetate**

WEL (Great Britain) Short-term value: 332 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 133 mg/m<sup>3</sup>, 20 ppm  
Sk

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**IOELV (EU)**      *Short-term value: 333 mg/m<sup>3</sup>, 50 ppm*  
                          *Long-term value: 133 mg/m<sup>3</sup>, 20 ppm*  
                          *Skin*

**77-58-7 dibutyltin dilaurate**

**WEL (Great Britain)** *Short-term value: 0.2 mg/m<sup>3</sup>*  
                                  *Long-term value: 0.1 mg/m<sup>3</sup>*  
                                  *as Sn; Sk*

**reaction mass of ethylbenzene and xylene**

**WEL (Great Britain)** *Short-term value: 441 mg/m<sup>3</sup>, 100 ppm*  
                                  *Long-term value: 220 mg/m<sup>3</sup>, 50 ppm*  
                                  *Sk; BMGV*

**IOELV (EU)**      *Short-term value: 442 mg/m<sup>3</sup>, 100 ppm*  
                                  *Long-term value: 221 mg/m<sup>3</sup>, 50 ppm*  
                                  *Skin*

**Regulatory information**      *WEL (Great Britain): EH40/2020*  
                                                  *IOELV (EU): (EU) 2019/1831*

**DNELs**

**123-86-4 n-butyl acetate**

**Dermal**    *DNEL 7 mg/kg bw/day (long-term - systemic effects, workers)*  
**Inhalative DNEL** *960 mg/m<sup>3</sup> (acute - systemic effects, workers)*  
                                  *960 mg/m<sup>3</sup> (acute - local effects, workers)*  
                                  *480 mg/m<sup>3</sup> (long-term - systemic effects, workers)*  
                                  *480 mg/m<sup>3</sup> (long-term - local effects, workers)*

**110-43-0 heptan-2-one**

**Dermal**    *DNEL 54.27 mg/kg bw/day (long-term - systemic effects, workers)*  
**Inhalative DNEL** *1,516 mg/m<sup>3</sup> (acute - systemic effects, workers)*  
                                  *394.25 mg/m<sup>3</sup> (long-term - systemic effects, workers)*

**1330-20-7 xylene**

**Dermal**    *DNEL 212 mg/kg bw/day (long-term - systemic effects, workers)*  
**Inhalative DNEL** *442 mg/m<sup>3</sup> (acute - systemic effects, workers)*  
                                  *442 mg/m<sup>3</sup> (acute - local effects, workers)*  
                                  *221 mg/m<sup>3</sup> (long-term - systemic effects, workers)*  
                                  *221 mg/m<sup>3</sup> (long-term - local effects, workers)*

**hydrocarbons, C9, aromatics**

**Dermal**    *DNEL 25 mg/kg bw/day (long-term - systemic effects, workers)*  
**Inhalative DNEL** *150 mg/m<sup>3</sup> (long-term - systemic effects, workers)*

**78-93-3 butanone**

**Dermal**    *DNEL 1,161 mg/kg bw/day (long-term - systemic effects, workers)*  
**Inhalative DNEL** *600 mg/m<sup>3</sup> (long-term - systemic effects, workers)*

**112-07-2 2-butoxyethyl acetate**

**Dermal**    *DNEL 102 mg/kg bw/day (acute - systemic effects, workers)*

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102 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 775 mg/m<sup>3</sup> (acute - systemic effects, workers)

333 mg/m<sup>3</sup> (acute - local effects, workers)

133 mg/m<sup>3</sup> (long-term - local effects, workers)

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

Dermal DNEL 3.4 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 40.13 mg/m<sup>3</sup> (acute - local effects, workers)

2.39 mg/m<sup>3</sup> (long-term - systemic effects, workers)

40.13 mg/m<sup>3</sup> (long-term - local effects, workers)

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

Dermal DNEL 0.83 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 7 mg/m<sup>3</sup> (long-term - systemic effects, workers)

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

Dermal DNEL 2.5 mg/kg bw/day (acute - systemic effects, workers)

2.5 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 2.35 mg/m<sup>3</sup> (acute - systemic effects, workers)

2.35 mg/m<sup>3</sup> (long-term - systemic effects, workers)

**77-58-7 dibutyltin dilaurate**

Dermal DNEL 2.08 mg/kg bw/day (acute - systemic effects, workers)

0.42 mg/kg bw/day (long-term - systemic effects, workers)

Inhalative DNEL 0.02 mg/m<sup>3</sup> (long-term - systemic effects, workers)

**PNECs**

**123-86-4 n-butyl acetate**

PNEC 0.18 mg/l (freshwater environment)

0.018 mg/l (marine environment)

0.36 mg/l (intermittent releases)

35.6 mg/l (sewage treatment plants)

PNEC 0.981 mg/kg (freshwater sediment environment)

**110-43-0 heptan-2-one**

PNEC 0.0982 mg/l (freshwater environment)

0.00982 mg/l (marine environment)

0.982 mg/l (intermittent releases)

12.5 mg/l (sewage treatment plants)

PNEC 1.89 mg/kg (freshwater sediment environment)

0.189 mg/kg (marine sediment environment)

0.321 mg/kg (soil)

**1330-20-7 xylene**

PNEC 0.327 mg/l (freshwater environment)

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0.327 mg/l (marine environment)

PNEC 12.46 mg/kg (freshwater sediment environment)

12.46 mg/kg (marine sediment environment)

**78-93-3 butanone**

PNEC 55.8 mg/l (freshwater environment)

55.8 mg/l (marine environment)

55.8 mg/l (intermittent releases)

709 mg/l (sewage treatment plants)

PNEC 284.74 mg/kg (freshwater sediment environment)

284.7 mg/kg (marine sediment environment)

22.5 mg/kg (soil)

**112-07-2 2-butoxyethyl acetate**

PNEC 0.304 mg/l (freshwater environment)

0.0304 mg/l (marine environment)

0.56 mg/l (intermittent releases)

90 mg/l (sewage treatment plants)

PNEC 2.03 mg/kg (freshwater sediment environment)

0.203 mg/kg (marine sediment environment)

0.68 mg/kg (soil)

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

PNEC 2.39 mg/l (sewage treatment plants)

PNEC 0.03 µg/l (freshwater environment)

0.0034 µg/l (marine environment)

0.34 µg/l (intermittent releases)

PNEC 1.02 µg/kg (freshwater sediment environment)

0.102 µg/kg (marine sediment environment)

0.184 µg/kg (soil)

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

PNEC 0.0425 mg/l (freshwater environment)

0.00425 mg/l (marine environment)

0.032 mg/l (intermittent releases)

10 mg/l (sewage treatment plants)

PNEC 3,520 mg/kg (freshwater sediment environment)

352 mg/kg (marine sediment environment)

701 mg/kg (soil)

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

PNEC 0.0022 mg/l (freshwater environment)

0.00022 mg/l (marine environment)

0.009 mg/l (intermittent releases)

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PNEC 1.05 mg/kg (freshwater sediment environment)  
 0.11 mg/kg (marine sediment environment)  
 0.21 mg/kg (soil)

**77-58-7 dibutyltin dilaurate**

PNEC 100 mg/l (sewage treatment plants)  
 PNEC 0.05 mg/kg (freshwater sediment environment)  
 0.005 mg/kg (marine sediment environment)  
 0.0407 mg/kg (soil)  
 PNEC 0.463 µg/l (freshwater environment)  
 0.0463 µg/l (marine environment)  
 4.63 µg/l (intermittent releases)

**Ingredients with biological limit values:****1330-20-7 xylene**

BMGV (Great Britain) 650 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: methyl hippuric acid

**78-93-3 butanone**

BMGV (Great Britain) 70 µmol/L  
 Medium: urine  
 Sampling time: post shift  
 Parameter: butan-2-one

**reaction mass of ethylbenzene and xylene**

BMGV (Great Britain) 650 mmol/mol creatinine  
 Medium: urine  
 Sampling time: post shift  
 Parameter: methyl hippuric acid

**Regulatory information** BMGV (Great Britain): EH40/2011

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

**8.2 Exposure controls****Appropriate engineering controls**

No further data; see section 7.

**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

Ensure good ventilation/exhaustion at the workplace.  
 Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
 Keep ignition sources away - Do not smoke.  
 Immediately remove all soiled and contaminated clothing  
 Wash hands before breaks and at the end of work.  
 Do not inhale gases / fumes / aerosols.  
 Avoid contact with the eyes and skin.  
 Do not eat or drink while working.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

A2/P2 filter

**Hand protection**

Protective gloves

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<b>Material of gloves</b>	<p>Check the permeability prior to each renewed use of the glove.          The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.          When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.          Butyl rubber, BR          Nitrile rubber, NBR          PVA gloves          Recommended material thickness: <math>\geq 0.7</math> mm          The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.</p>
<b>Penetration time of glove material</b>	<p>Permeation level and breakthrough time: level 6 <math>\geq 480</math> min.          The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
<b>Eye/face protection</b>	Tightly sealed goggles
<b>Body protection:</b>	Protective work clothing

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## \* SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

<b>Physical state</b>	Fluid
<b>Colour:</b>	slightly yellow
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	124-128 °C (123-86-4 n-butyl acetate)
<b>Flammability</b>	Highly flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	0.7 Vol % (hydrocarbons, C9, aromatics)
<b>Upper:</b>	15 Vol % (123-86-4 n-butyl acetate)
<b>Flash point:</b>	<23 °C
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not applicable.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 40 °C</b>	>20.5 mm <sup>2</sup> /s
<b>Dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	105 hPa (78-93-3 butanone)
<b>Vapour pressure at 50 °C:</b>	55 hPa
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.98-1 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.

### 9.2 Other information

<b>Appearance:</b>	
<b>Form:</b>	Fluid

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*(Contd. of page 10)*

**Important information on protection of health and environment, and on safety.**

<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Highly flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	No decomposition if used according to specifications.
<b>10.2 Chemical stability</b>	No decomposition if used and stored according to specifications.
<b>10.3 Possibility of hazardous reactions</b>	Reacts with alkali, amines and strong acids. Reacts with oxidising agents. Fumes can combine with air to form an explosive mixture.
<b>10.4 Conditions to avoid</b>	Protect from heat and direct sunlight.
<b>10.5 Incompatible materials:</b>	No further relevant information available.
<b>10.6 Hazardous decomposition products:</b>	Carbon monoxide and carbon dioxide Formation of toxic gases is possible during heating or in case of fire.

**\* SECTION 11: Toxicological information**

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

**Acute toxicity** Based on available data, the classification criteria are not met.  
**LD/LC50 values relevant for classification:**

**123-86-4 n-butyl acetate**

Oral	LD50	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)

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**110-43-0 heptan-2-one**

Oral LD50 1,600 mg/kg (rat)  
Dermal LD50 >2,000 mg/kg (rat)  
Inhalative ATE 1.5 mg/l (dust/ mist)

**1330-20-7 xylene**

Dermal LD50 1,100 mg/kg (ATE)  
Inhalative ATE 1.5 mg/l (dust/ mist)

**hydrocarbons, C9, aromatics**

Oral LD50 3,592 mg/kg (rat)  
Dermal LD50 >3,160 mg/kg  
Inhalative LC50/4 h >6,193 mg/l (rat)

**78-93-3 butanone**

Oral LD50 >2,000 mg/kg (rat)  
Dermal LD50 >2,000 mg/kg (rabbit)

**112-07-2 2-butoxyethyl acetate**

Oral LD50 1,880 mg/kg (rat)  
Dermal LD50 1,500 mg/kg (rabbit)  
Inhalative ATE 1.5 mg/l

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

Oral LD50 1,000-2,000 mg/kg (rat)  
Inhalative LC50/4 h >3,363 mg/l (rat)

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

Oral LD50 >2,000 mg/kg (rat)  
Dermal LD50 >2,000 mg/kg (rat)

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

Oral LD50 3,230 mg/kg (rat)  
Dermal LD50 >3,170 mg/kg (rat)

**77-99-6 propylidynetrimehanol**

Oral LD50 14,700 mg/kg (rat)  
Dermal LD50 >10,000 mg/kg (rabbit)

**77-58-7 dibutyltin dilaurate**

Oral LD50 2,071 mg/kg (rat)  
Dermal LD50 >2,000 mg/kg (rat)

**reaction mass of ethylbenzene and xylene**

Oral LD50 4,300 mg/kg (rat)

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Dermal LD50 2,000 mg/kg (rabbit)

Inhalative LC50/4 h 11 mg/l (ATE)

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** May cause an allergic skin reaction.**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** May cause drowsiness or dizziness.**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.**11.2 Information on other hazards****Endocrine disrupting properties**

78-93-3 butanone: List II

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**SECTION 12: Ecological information**


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**12.1 Toxicity****Aquatic toxicity:****123-86-4 n-butyl acetate**

LC50/96 h 18 mg/l (fish)

TT/16 h 115 mg/l (microorganisms)

EC50/48 h 44 mg/l (daphnia)

EC50/72 h 675 mg/l (algae)

**110-43-0 heptan-2-one**

LC50/96 h 131 mg/l (fish)

EC50/72 h 98.2 mg/l (algae)

**1330-20-7 xylene**LC50/96 h 2.6 mg/l (*Oncorhynchus mykiss*) (OECD 203)

EC50/3 h &gt;157 mg/l (microorganisms)

EC50/48 h >3.4 mg/l (*Ceriodaphnia dubia*) (OECD 202)

EC50/73h 2.2 mg/l (algae) (OECD 201)

**hydrocarbons, C9, aromatics**

ErC50/96 h 9.2 mg/l (fish)

EL50/48 h 3.2 mg/l (*Daphnia magna*)

ErL50/72 h 2.9 mg/l (algae)

EC50/48 h 6.14 mg/l (*Daphnia magna*)

EC50/10 min &gt;99 mg/l (microorganisms)

**78-93-3 butanone**EC50/7 d >100 mg/l (*Desmodesmus subspicatus*)EC50/48 h >100 mg/l (*Leuciscus idus melanotus*)

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>100 mg/l (*Daphnia magna*)

**112-07-2 2-butoxyethyl acetate**

EC50/72 h >100 mg/l (*Scenedesmus subspicatus*)

EC50/24 h >100 mg/l (*Daphnia magna*)

LC50/48 h 10-100 mg/l (*Leuciscus idus melanotus*)

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

LC50/96 h 0.034 mg/l (*Oncorhynchus mykiss*) (OECD 203)

EC50/48 h >0.35 mg/l (*Daphnia magna*)

EC50 >0.65 mg/l (*Desmodesmus subspicatus*)

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

LC50/96 h >9.9 mg/l (fish)

EC20/30 min >100 mg/l (microorganisms)

EC50/72 h >2 mg/l (*Scenedesmus subspicatus*)

EC50/24 h 16.4 mg/l (invertebrates)

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

LC50/96 h 0.97 mg/l (fish)

EC50/3 h >100 mg/l (microorganisms)

EC50/72 h 1.68 mg/l (*Desmodesmus subspicatus*)

EC50/24 h 20 mg/l (*Daphnia magna*)

**77-58-7 dibutyltin dilaurate**

LC50/96 h 3.1 mg/l (fish)

EC50/48 h 0.463 mg/l (*Daphnia magna*) (OECD 202)

EC50/72 h >1 mg/l (*Desmodesmus subspicatus*) (OECD 201)

EC50/48h 0.463 µg/l (*Daphnia magna*) (OECD 202)

**12.2 Persistence and degradability**

**123-86-4 n-butyl acetate**

Biodegradation 83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)

**110-43-0 heptan-2-one**

Biodegradation 69 % (readily biodegradable) (OECD 310, 28 d, aerobic)

**1330-20-7 xylene**

Biodegradation >60 % (readily biodegradable)

**hydrocarbons, C9, aromatics**

Biodegradation 78 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)

**78-93-3 butanone**

Biodegradation 98 % (readily biodegradable) (OECD 301 D, 28 d)

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**Trade name: 7400.10016 Diamond Clear Extreme 1L, 7400.10019 Diamond Clear Extreme 5L**

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**112-07-2 2-butoxyethyl acetate**

Biodegradation >70 % (readily biodegradable) (OECD 301C, 28d)

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

Biodegradation 26 % (not readily biodegradable) (OECD 301 B, 28 d, aerobic)

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

Biodegradation 9 % (not readily biodegradable)

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

Biodegradation 38 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic)

**77-58-7 dibutyltin dilaurate**

Biodegradation 23 % (not readily biodegradable)

**12.3 Bioaccumulative potential**

**123-86-4 n-butyl acetate**

BCF 15.3 (-)

log Pow 2.3

**1330-20-7 xylene**

BCF 25.9

log Kow <3.2

**78-93-3 butanone**

log Pow 0.3

**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

BCF 23.7

log Pow 3.03

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

BCF <0.24

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

BCF <9.7

**77-58-7 dibutyltin dilaurate**

BCF 2.91 (-)

**12.4 Mobility in soil**

**123-86-4 n-butyl acetate**

log Koc 1.27

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**7575-23-7 pentaerythritol tetrakis(3-mercaptopropionate)**

log Koc 2.54

Koc 347

**127519-17-9 reaction mass of branched and linear C7-C9 alkyl 3-[3-(2H-benzotriazol-2-yl)-5-(1,1-dimethylethyl)-4-hydroxyphenyl]propionates**

log Koc 5.9177

Koc 827,300

**Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate**

log Koc 5.31

Koc 204,400

**12.5 Results of PBT and vPvB assessment**

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

**12.7 Other adverse effects**

**Additional ecological information:**

**General notes:** 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

## 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.

## \* SECTION 14: Transport information

**14.1 UN number or ID number**

**ADR, IMDG, IATA** UN1263

**14.2 UN proper shipping name**

**ADR** 1263 PAINT

**IMDG, IATA** PAINT

**14.3 Transport hazard class(es)**

**ADR, IMDG, IATA**



**Class** 3

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<b>Label</b>	3
<b>14.4 Packing group</b>	
<b>ADR, IMDG, IATA</b>	II
<b>14.5 Environmental hazards:</b>	Not applicable.
<b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
<b>Hazard identification number (Kemler code):</b>	33
<b>EMS Number:</b>	F-E, S-E
<b>Stowage Category</b>	B
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.

**Transport/Additional information:**

<b>ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	2
<b>Tunnel restriction code</b>	D/E

<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>UN "Model Regulation":</b>	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.*

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**Annex II - REPORTABLE EXPLOSIVES PRECURSORS**


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None of the ingredients is listed.

**Regulation (EC) No 273/2004 on drug precursors**


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78-93-3 butanone: 3

**Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**


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78-93-3 butanone: 3

**National regulations:**
**Information about limitation of use:**
*Employment restrictions concerning juveniles must be observed.**Employment restrictions concerning pregnant and lactating women must be observed.*
**15.2 Chemical safety assessment:**
*A Chemical Safety Assessment has not been carried out.*


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**SECTION 16: Other information**


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*This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.*

*The above information is based on currently available data characterising the product. They do not constitute a guarantee or quality specification. It should be regarded as a guideline for safe use, storage, transport, disposal in case of release into the environment. It is the responsibility of the user to create conditions for the safe use of the product and the user accepts responsibility for any consequences resulting from improper use of this product.*

**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.*  
 H361f *Suspected of damaging fertility.*  
 H361fd *Suspected of damaging fertility. Suspected of damaging the unborn child.*  
 H370 *Causes damage to organs.*  
 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.*  
 H412 *Harmful to aquatic life with long lasting effects.*  
 H413 *May cause long lasting harmful effects to aquatic life.*  
 EUH066 *Repeated exposure may cause skin dryness or cracking.*

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**Classification according to Regulation (EC) No 1272/2008**

*Flammable liquids*

*Bridging principles*

*Skin sensitisation*

*Specific target organ toxicity (single exposure)*

*Hazardous to the aquatic environment - long-term (chronic) aquatic hazard*

*The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.*

**Version number of previous**

**version:**

1.0

**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*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*ELINCS: European List of Notified Chemical Substances*  
*CAS: chemical number assigned to the chemical in the Chemical Abstracts Service list*  
*DNEL: Derived No-Effect Level*  
*PNEC: Predicted No-Effect Concentration*  
*LC50: median lethal concentration*  
*LD50: lethal dose 50%*  
*PBT: persistent, bioaccumulative and toxic*  
*vPvB: very persistent and very bioaccumulative*  
*Flam. Liq. 2: Flammable liquid substance. Hazard category 2*  
*Flam. Liq. 3: Flammable liquid substance. Hazard category 3*  
*Acute Tox. 4: Acute toxicity. Hazard category 4*  
*Skin Irrit. 2: Skin corrosion/irritation. Hazard category 2*  
*Eye Irrit. 2: Serious eye damage/eye irritation. Hazard category 2*  
*Skin Sens. 1: Skin sensitisation. Hazard category 1*  
*Skin Sens. 1A: Skin sensitisation. Hazard category 1A*  
*Muta. 2: Mutagenic effect on germ cells. Hazard category 2*  
*Repr. 1B: Reproductive toxicity. Hazard category 1B*  
*Repr. 2: Reproductive toxicity. Hazard category 2*  
*Repr. 2: Reproductive toxicity. Hazard category 2*  
*STOT SE 1: Toxic effects on target organs - single exposure. Hazard category 1*  
*STOT SE 3: Toxic effects on target organs - single exposure. Hazard category 3*  
*STOT RE 1: Toxic effects on target organs - repeated exposure. Hazard category 1*  
*STOT RE 2: Toxic effects on target organs - repeated exposure. Hazard category 2*  
*Asp. Tox. 1: Aspiration hazard. Hazard category 1*  
*Aquatic Acute 1: Presenting a hazard to the aquatic environment - acute hazard, Category 1*  
*Aquatic Chronic 1: Presenting a hazard to the aquatic environment. Chronic hazard, Category 1*  
*Aquatic Chronic 2: Presenting a hazard to the aquatic environment. Chronic hazard, Category 2*  
*Aquatic Chronic 3: Presenting a hazard to the aquatic environment. Chronic hazard, Category 3*  
*Aquatic Chronic 4: Presenting a hazard to the aquatic environment. Chronic hazard, Category 4*

**Sources**

*European Chemicals Agency, <http://echa.europa.eu/>*

**\* Data compared to the previous version altered.**