

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

### 1.1 Product identifier

Trade name: **DIAMOND CLEAR ULTRA (CODE 7400.10016 5Ltr)**

1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses: 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  
Fax: +353 49 5552312  
sales@abconireland.com

Further information obtainable from: sales@abconireland.com

1.4 Emergency telephone number: +353 49 5552340

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

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

STOT SE 3 H335-H336 May cause respiratory irritation. 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 CLP regulation.

#### Hazard pictograms



GHS02



GHS07

Signal word Warning

#### Hazard-determining components of labelling:

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

#### Hazard statements

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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

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- 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.

### SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.

<b>Dangerous components:</b>		
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29	n-butyl acetate ----- ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-<20%
List no.: 918-668-5 Reg.nr.: 01-2119455851-35	hydrocarbons, C9, aromatics ----- ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H335-H336	10-25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32	xylene ----- ⚠ 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	2.5-<10%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ----- ⚠ Flam. Liq. 3, H226	2.5-10%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30	4-methylpentan-2-one ----- ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	1-5%
CAS: 763-69-9 EINECS: 212-112-9 Reg.nr.: 01-2119463267-34	ethyl 3-ethoxypropionate ----- ⚠ Flam. Liq. 3, H226	1-5%
CAS: 110-43-0 EINECS: 203-767-1 Reg.nr.: 01-2119902391-49	heptan-2-one ----- ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H302; Acute Tox. 4, H332; STOT SE 3, H336	1-5%
List no.: 915-687-0 Reg.nr.: 01-2119491304-40	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate ----- ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Sens. 1A, H317	0.1-<0.5%

**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.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Take affected persons out of danger area and lay down.

**After inhalation:**

Supply fresh air and to be sure call for a doctor.

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*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.*

**After swallowing:** *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.*

**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.*

**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.*

*Avoid contact with the eyes and skin.*

**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.*

*Avoid contact with the eyes and skin.*

*Do not eat, drink, smoke or sniff while working.*

*Do not allow to enter sewers/ surface or ground water.*

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

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage:**

**Requirements to be met by storerooms and receptacles:** 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

**Additional information about design of technical facilities:** No further data; see item 7.

**8.1 Control parameters**

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

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

<b>WEL (Great Britain)</b>	Short-term value: 966 mg/m <sup>3</sup> , 200 ppm Long-term value: 724 mg/m <sup>3</sup> , 150 ppm
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**1330-20-7 xylene**

<b>WEL (Great Britain)</b>	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
<b>IOELV (EU)</b>	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**108-65-6 2-methoxy-1-methylethyl acetate**

<b>WEL (Great Britain)</b>	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
<b>IOELV (EU)</b>	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin

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

<b>WEL (Great Britain)</b>	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk, BMGV
<b>IOELV (EU)</b>	Short-term value: 208 mg/m <sup>3</sup> , 50 ppm Long-term value: 83 mg/m <sup>3</sup> , 20 ppm

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

<b>WEL (Great Britain)</b>	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 237 mg/m <sup>3</sup> , 50 ppm Sk
<b>IOELV (EU)</b>	Short-term value: 475 mg/m <sup>3</sup> , 100 ppm Long-term value: 238 mg/m <sup>3</sup> , 50 ppm Skin

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

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<b>DNELs</b>		
<b>123-86-4 n-butyl acetate</b>		
<i>Dermal</i>	<i>DNEL</i>	7 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	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)
<b>hydrocarbons, C9, aromatics</b>		
<i>Dermal</i>	<i>DNEL</i>	25 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	150 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>1330-20-7 xylene</b>		
<i>Dermal</i>	<i>DNEL</i>	180 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	289 mg/m <sup>3</sup> (acute - systemic effects, workers)
		289 mg/m <sup>3</sup> (acute - local effects, workers)
		77 mg/m <sup>3</sup> (long-term - systemic effects, workers)
		77 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
<i>Dermal</i>	<i>DNEL</i>	153.5 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	275 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>108-10-1 4-methylpentan-2-one</b>		
<i>Dermal</i>	<i>DNEL</i>	11.8 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	208 mg/m <sup>3</sup> (acute - systemic effects, workers)
		208 mg/m <sup>3</sup> (acute - local effects, workers)
		83 mg/m <sup>3</sup> (long-term - systemic effects, workers)
		83 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>763-69-9 ethyl 3-ethoxypropionate</b>		
<i>Dermal</i>	<i>DNEL</i>	102 mg/kg bw/day (long-term - systemic effects, workers)
	<i>DNEL</i>	102 mg/cm <sup>2</sup> (long-term - local effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	610 mg/m <sup>3</sup> (long-term - systemic effects, workers)
	<i>DNEL</i>	610 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>110-43-0 heptan-2-one</b>		
<i>Dermal</i>	<i>DNEL</i>	54.27 mg/kg bw/day (long-term - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	1516 mg/m <sup>3</sup> (acute - systemic effects, workers)
		394.25 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>		
<i>Dermal</i>	<i>DNEL</i>	2.5 mg/kg bw/day (acute - systemic effects, workers)
<i>Inhalative</i>	<i>DNEL</i>	2.5 mg/kg bw/day (long-term - systemic effects, workers)
		2.35 mg/m <sup>3</sup> (acute - systemic effects, workers)
		2.35 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>PNECs</b>		
<b>123-86-4 n-butyl acetate</b>		
<i>PNEC</i>		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)

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<i>PNEC</i>	0.981 mg/kg (freshwater sediment environment)
<b>1330-20-7 xylene</b>	
<i>PNEC</i>	0.327 mg/l (freshwater environment) 6.58 mg/l (sewage treatment plants)
<i>PNEC</i>	12.46 mg/kg (freshwater sediment environment) 2.31 mg/kg (soil)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
<i>PNEC</i>	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants)
<i>PNEC</i>	3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)
<b>108-10-1 4-methylpentan-2-one</b>	
<i>PNEC</i>	0.6 mg/l (freshwater environment) 0.06 mg/l (marine environment) 1.5 mg/l (intermittent releases) 27.5 mg/l (sewage treatment plants)
<i>PNEC</i>	8.27 mg/kg (freshwater sediment environment) 0.83 mg/kg (marine sediment environment)
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
<i>PNEC</i>	0.0609 mg/l (freshwater environment) 0.00609 mg/l (marine environment) 0.609 mg/l (intermittent releases) 50 mg/l (sewage treatment plants)
<i>PNEC</i>	0.419 mg/kg (freshwater sediment environment) 0.048 mg/kg (soil)
<b>110-43-0 heptan-2-one</b>	
<i>PNEC</i>	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)
<i>PNEC</i>	1.89 mg/kg (freshwater sediment environment) 0.189 mg/kg (marine sediment environment) 0.321 mg/kg (soil)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
<i>PNEC</i>	0.0022 mg/l (freshwater environment) 0.00022 mg/l (marine environment) 0.009 mg/l (intermittent releases)
<i>PNEC</i>	1.05 mg/kg (freshwater sediment environment) 0.11 mg/kg (marine sediment environment) 0.21 mg/kg (soil)

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<b>Ingredients with biological limit values:</b>	
<b>1330-20-7 xylene</b>	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
<b>108-10-1 4-methylpentan-2-one</b>	
BMGV (Great Britain)	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one

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

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

## 8.2 Exposure controls

### 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.

Keep away from foodstuffs, beverages and feed.

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.

Filter A/P2

#### Protection of hands:



Protective gloves

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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation (EN 374).

#### Material of gloves

Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

PVA gloves

Recommended thickness of the material:  $\geq 0,7$  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.

#### Penetration time of glove material

Value for the permeation: Level 6  $\geq 480$  min.

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

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Eye protection:



Tightly sealed goggles

Body protection: Protective work clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

Form:	Fluid
Colour:	Colourless/ slightly yellow
Odour:	Characteristic
Odour threshold:	Not determined.

pH-value: Not applicable.

#### Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	124 °C Undetermined.

Flash point: 24 °C

Flammability (solid, gaseous): Not applicable.

Decomposition temperature: Not determined.

Auto-ignition temperature: Not determined.

Danger of explosion: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### Explosion limits:

Lower:	0.7 Vol %
Upper:	15.0 Vol %

Vapour pressure at 20 °C: 10.7 hPa

Density: 0.97-0.98 g/cm<sup>3</sup>

Vapour density: Not determined.

Evaporation rate: Not determined.

#### Solubility in / Miscibility with

water: Not miscible or difficult to mix.

Partition coefficient (n-octanol/water): Not determined.

#### Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

9.2 Other information: No further relevant information available.

## SECTION 10: Stability and reactivity

10.1 Reactivity: No decomposition if used according to specifications.

10.2 Chemical stability: No decomposition if used and stored according to specifications.

#### 10.3 Possibility of hazardous reactions

Reacts with alkali, amines and strong acids.

Reacts with oxidising agents.

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Fumes can combine with air to form an explosive mixture.

**10.4 Conditions to avoid** Protect from heat and direct sunlight.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

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 toxicological effects

**Acute toxicity** Based on available data, the classification criteria are not met.

<b>LD/LC50 values relevant for classification:</b>		
<b>123-86-4 n-butyl acetate</b>		
Oral	LD50	10760 mg/kg (rat)
Dermal	LD50	10760 mg/kg (rat)
		>14000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)
<b>hydrocarbons, C9, aromatics</b>		
Oral	LD50	3592 mg/kg (rat)
Dermal	LD50	>3160 mg/kg
Inhalative	LC50/4 h	> 6193 mg/l (rat)
<b>1330-20-7 xylene</b>		
Oral	ATE	>2000 mg/kg
Dermal	ATE	1466.67 mg/kg
Inhalative	ATE	12.09 mg/l (vapour)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)
Inhalative	LC50/6 h	4345 mg/l (rat)
<b>108-10-1 4-methylpentan-2-one</b>		
Oral	LD50	2080 mg/kg (rat)
Dermal	LD50	16000 mg/kg (rab)
Inhalative	LC50/4 h	10-20 mg/l (rat)
<b>763-69-9 ethyl 3-ethoxypropionate</b>		
Oral	LD50	4309 mg/kg (rat)
Dermal	LD50	4080 mg/kg (rabbit)
<b>110-43-0 heptan-2-one</b>		
Oral	LD50	1600 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4 h	> 16.7 mg/l (rat)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>		
Oral	LD50	3230 mg/kg (rat)
Dermal	LD50	>3170 mg/kg (rat)

**Primary irritant effect:**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Causes serious eye irritation.

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**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**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**

May cause respiratory irritation. 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.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:**

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

LC50/96 h	18 mg/l ( <i>Pimephales promelas</i> )
TT/16 h	115 mg/l ( <i>Pseudomonas putida</i> )
EC50/48 h	44 mg/l ( <i>daphnia</i> )
EC50/72 h	675 mg/l ( <i>algae</i> )

**hydrocarbons, C9, aromatics**

ErC50/96 h	9.2 mg/l ( <i>fish</i> )
EL50/48 h	3.2 mg/l ( <i>Daphnia magna</i> )
ErL50/72 h	2.9 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
EC50/48 h	6.14 mg/l ( <i>Daphnia magna</i> )
EC50/10 min	>99 mg/l ( <i>microorganisms</i> )

**1330-20-7 xylene**

LC50/96 h	2.6 mg/l ( <i>fish</i> )
IC50/72 h	2.2 mg/l ( <i>algae</i> )
EC50/48 h	>1-10 mg/l ( <i>Daphnia magna</i> )
EC50/24 h	96 mg/l ( <i>microorganisms</i> )

**108-65-6 2-methoxy-1-methylethyl acetate**

LC50/96 h	>100 mg/l ( <i>fish</i> )
EC50/48 h	>500 mg/l ( <i>Daphnia magna</i> )
EC20/30 min	>1000 mg/l ( <i>microorganisms</i> )
EC50/72 h	>1000 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
EC50	>100 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
	>100 mg/l ( <i>Pimephales promelas</i> )
	>100 mg/l ( <i>Daphnia magna</i> )

**763-69-9 ethyl 3-ethoxypropionate**

LC50/96 h	60.9 mg/l ( <i>fish</i> )
EC50/48 h	785 mg/l ( <i>Daphnia magna</i> )
EC50/72 h	>114.86 mg/l ( <i>Pseudokirchnerella subcapitata</i> )

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

LC50/96 h	131 mg/l ( <i>Pimephales promelas</i> )
EC50/72 h	98.2 mg/l ( <i>Pseudokirchnerella subcapitata</i> )

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**Trade name: DIAMOND CLEAR ULTRA**

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<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
LC50/96 h	0.97 mg/l (fish)
EC50/3 h	>100 mg/l (microorganisms)
EC50/72 h	1.68 mg/l ( <i>Desmodesmus subspicatus</i> )
EC50/24 h	20 mg/l ( <i>Daphnia magna</i> )
<b>12.2 Persistence and degradability</b>	
<b>123-86-4 n-butyl acetate</b>	
Biodegradation	83 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
<b>hydrocarbons, C9, aromatics</b>	
Biodegradation	78 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>1330-20-7 xylene</b>	
Biodegradation	>60 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
Biodegradation	100 % (readily biodegradable) (CO2 Evolution Test, 28 d)
<b>110-43-0 heptan-2-one</b>	
Biodegradation	69 % (readily biodegradable) (OECD 310, 28 d, aerobic)
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
Biodegradation	38 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>12.3 Bioaccumulative potential</b>	
<b>123-86-4 n-butyl acetate</b>	
BCF	15.3 (-)
log Pow	2.3
<b>1330-20-7 xylene</b>	
BCF	25.9
log Pow	3.15
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
log Pow	0.56
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
log Pow	1.35
<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
BCF	<9.7
<b>12.4 Mobility in soil</b>	
<b>123-86-4 n-butyl acetate</b>	
log Koc	1.27
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Koc	1.7
<b>763-69-9 ethyl 3-ethoxypropionate</b>	
log Koc	1.52
Koc	32.78

(Contd. on page 12)

Trade name: **DIAMOND CLEAR ULTRA**

(Contd. of page 11)

<b>Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate</b>	
log K <sub>oc</sub>	5.31
K <sub>oc</sub>	204400

**Additional ecological information:**

**General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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.

<b>European waste catalogue</b>	
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

<b>14.1 UN-Number</b> ADR, IMDG, IATA	UN1263
<b>14.2 UN proper shipping name</b> ADR IMDG, IATA	1263 PAINT PAINT
<b>14.3 Transport hazard class(es)</b> ADR, IMDG, IATA	 Class 3 Label 3
<b>14.4 Packing group</b> ADR, IMDG, IATA	III
<b>14.6 Special precautions for user</b> Danger code (Kemler): EMS Number: Stowage Category	Warning: Flammable liquids. 30 F-E, S-E A
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
ADR Limited quantities (LQ) Transport category	5L 3

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**Trade name: DIAMOND CLEAR ULTRA**

(Contd. of page 12)

<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, III

## 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, 30

#### 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.

## 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.

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.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport 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 Abstracts Service (division of the American Chemical Society)

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

(Contd. on page 14)

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**Trade name: DIAMOND CLEAR ULTRA**

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*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: Sensitisation - Skin. Hazard Category 1**Skin Sens. 1A: Sensitisation - Skin. Hazard Category 1A**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**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 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***Sources** European Chemicals Agency, <http://echa.europa.eu/>