

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

Printing date 05.12.2019

V- 2.0

Revision: 05.12.2019

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** CLEAR COAT VOC/P**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:**

ALEXPORT - ASLAMAZIS ALEXANDROS &amp; CO.

Pontou 26, P.C. 546 28, Thessaloniki, Greece,

Tel: +30 2310 501814, Fax: +30 2310 524 771

info@alexport.gr, www.etalon.gr

**Further information obtainable from:****1.4 Emergency telephone number:** 122 or call your local doctor/poison center**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

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 CLP regulation.

**Hazard pictograms**

GHS02



GHS07

**Signal word** Warning**Hazard-determining components of labelling:**

n-butyl acetate

heptan-2-one

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

isobutyl methacrylate

**Hazard statements**

H226 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.

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

P280 Wear protective gloves.

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	<i>n</i> -butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	10-<10%
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	2.5-<10%
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	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: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; ⚠ STOT SE 3, H336	0.1-<1%
CAS: 75-65-0 EINECS: 200-889-7	2-methylpropan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Acute Tox. 4, H332; ⚠ Eye Irrit. 2, H319; ⚠ STOT SE 3, H335	0.1-<1%
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-<1%
CAS: 97-86-9 EINECS: 202-613-0 Reg.nr.: 01-2119488331-38	isobutyl methacrylate ⚠ Flam. Liq. 3, H226; ⚠ Skin Irrit. 2, H315; ⚠ Eye Irrit. 2, H319; ⚠ Skin Sens. 1, H317; ⚠ STOT SE 3, H335	0.1-<0.5%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	0.1-<1%

**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.

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**After inhalation:**

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

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.**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.

**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.

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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**

<b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>123-86-4 n-butyl acetate</b>	
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
<b>110-43-0 heptan-2-one</b>	
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
<b>108-10-1 4-methylpentan-2-one</b>	
WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm Sk, BMGV
IOELV (EU)	Short-term value: 208 mg/m <sup>3</sup> , 50 ppm Long-term value: 83 mg/m <sup>3</sup> , 20 ppm
<b>67-64-1 acetone</b>	
WEL (Great Britain)	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
IOELV (EU)	Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
<b>75-65-0 2-methylpropan-2-ol</b>	
WEL (Great Britain)	Short-term value: 462 mg/m <sup>3</sup> , 150 ppm Long-term value: 308 mg/m <sup>3</sup> , 100 ppm
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
WEL (Great Britain)	Short-term value: 548 mg/m <sup>3</sup> , 100 ppm Long-term value: 274 mg/m <sup>3</sup> , 50 ppm Sk
IOELV (EU)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin

**Regulatory information**

WEL (Great Britain): EH40/2018

IOELV (EU): (EU) 2017/164

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<b>DNELs</b>		
<b>123-86-4 n-butyl acetate</b>		
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)
<b>110-43-0 heptan-2-one</b>		
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)
<b>hydrocarbons, C9, aromatics</b>		
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)
<b>108-10-1 4-methylpentan-2-one</b>		
Dermal	DNEL	11.8 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	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>67-64-1 acetone</b>		
Dermal	DNEL	186 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	2,420 mg/m <sup>3</sup> (acute - local effects, workers)
		1,210 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>75-65-0 2-methylpropan-2-ol</b>		
Dermal	DNEL	5.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	214 mg/m <sup>3</sup> (acute - local effects, workers)
		2.7 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>		
Dermal	DNEL	2.5 mg/kg bw/day (acute - systemic effects, workers)
Inhalative	DNEL	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>97-86-9 isobutyl methacrylate</b>		
Dermal	DNEL	5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	415.9 mg/m <sup>3</sup> (long-term - systemic effects, workers)
		409 mg/m <sup>3</sup> (long-term - local effects, workers)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Dermal	DNEL	153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative	DNEL	275 mg/m <sup>3</sup> (long-term - systemic effects, workers)
<b>PNECs</b>		
<b>123-86-4 n-butyl acetate</b>		
PNEC	0.18 mg/l (freshwater environment)	
	0.018 mg/l (marine environment)	
	0.36 mg/l (intermittent releases)	

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PNEC	35.6 mg/l (sewage treatment plants) 0.981 mg/kg (freshwater sediment environment)
<b>110-43-0 heptan-2-one</b>	
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)
<b>108-10-1 4-methylpentan-2-one</b>	
PNEC	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)
PNEC	8.27 mg/kg (freshwater sediment environment) 0.83 mg/kg (marine sediment environment)
<b>67-64-1 acetone</b>	
PNEC	10.6 mg/l (freshwater environment) 1.06 mg/l (marine environment) 21 mg/l (intermittent releases) 100 mg/l (sewage treatment plants)
PNEC	30.4 mg/kg (freshwater sediment environment) 3.04 mg/kg (marine sediment environment) 29.5 mg/kg (soil)
<b>75-65-0 2-methylpropan-2-ol</b>	
PNEC	6.64 mg/l (freshwater environment) 0.664 mg/l (marine environment) 9.33 mg/l (intermittent releases) 690 mg/l (sewage treatment plants)
PNEC	5.8 mg/kg (freshwater sediment environment) 0.58 mg/kg (marine sediment environment) 1 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>	
PNEC	0.0022 mg/l (freshwater environment) 0.00022 mg/l (marine environment) 0.009 mg/l (intermittent releases)
PNEC	1.05 mg/kg (freshwater sediment environment) 0.11 mg/kg (marine sediment environment) 0.21 mg/kg (soil)
<b>97-86-9 isobutyl methacrylate</b>	
PNEC	0.021 mg/l (freshwater environment) 0.0021 mg/l (marine environment) 0.2 mg/l (intermittent releases) 10 mg/l (sewage treatment plants)

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PNEC	5.89 mg/kg (freshwater sediment environment) 0.589 mg/kg (marine sediment environment) 1.16 mg/kg (soil)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
PNEC	0.635 mg/l (freshwater environment) 0.0635 mg/l (marine environment) 6.35 mg/l (intermittent releases) 100 mg/l (sewage treatment plants)
PNEC	3.29 mg/kg (freshwater sediment environment) 0.329 mg/kg (marine sediment environment)
<b>Ingredients with biological limit values:</b>	
<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.

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 A2/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

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.

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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:** Protective work clothing

**\* SECTION 9: Physical and chemical properties**

<b>9.1 Information on basic physical and chemical properties</b>	
<b>General Information</b>	
<b>Appearance:</b>	
<b>Form:</b>	Fluid
<b>Colour:</b>	Colourless
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not applicable.
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	114 °C
<b>Flash point:</b>	>23 °C
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	0.7 Vol %
<b>Upper:</b>	15 Vol %
<b>Vapour pressure at 20 °C:</b>	10.7 hPa
<b>Density at 20 °C:</b>	0.98-0.99 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>9.2 Other information</b>	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.

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Reacts with oxidising agents.

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	10,760 mg/kg (rat)
Dermal	LD50	>14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	23.4 mg/l (rat)
<b>110-43-0 heptan-2-one</b>		
Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	>16.7 mg/l (rat)
<b>hydrocarbons, C9, aromatics</b>		
Oral	LD50	3,592 mg/kg (rat)
Dermal	LD50	>3,160 mg/kg
Inhalative	LC50/4 h	>6,193 mg/l (rat)
<b>108-10-1 4-methylpentan-2-one</b>		
Oral	LD50	2,080 mg/kg (rat)
Dermal	LD50	16,000 mg/kg (rab)
Inhalative	LC50/4 h	10-20 mg/l (rat)
<b>67-64-1 acetone</b>		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	7,400 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)
<b>75-65-0 2-methylpropan-2-ol</b>		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (ATE)
<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	3,230 mg/kg (rat)
Dermal	LD50	>3,170 mg/kg (rat)
<b>97-86-9 isobutyl methacrylate</b>		
Oral	LD50	11,990 mg/kg (mouse)
Dermal	LD50	17,760 mg/kg 17,760 mg/kg (guinea pig)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)

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Inhalative	LC50/6 h	4,345 mg/l (rat)
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**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.

**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 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 (*Pimephales promelas*)TT/16 h 115 mg/l (*Pseudomonas putida*)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 (*Pimephales promelas*)EC50/72 h 98.2 mg/l (*Pseudokirchnerella subcapitata*)**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 (*Pseudokirchnerella subcapitata*)EC50/48 h 6.14 mg/l (*Daphnia magna*)

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

**67-64-1 acetone**LC50/96 h 5,540 mg/l (*Oncorhynchus mykiss*)

EC50/24 h mg/l (marine sediment environment)

LC50/48 h 8,800 mg/l (*Daphnia pulex*)**75-65-0 2-methylpropan-2-ol**LC50/96 h >961 mg/l (*Pimephales promelas*)EC50/48 h 933 mg/l (*Daphnia magna*)EC50/24 h >976 mg/l (*Pseudokirchnerella subcapitata*)EC50/16 h >10 g/l (*Pseudomonas putida*)**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 &gt;100 mg/l (microorganisms)

EC50/72 h 1.68 mg/l (*Desmodesmus subspicatus*)EC50/24 h 20 mg/l (*Daphnia magna*)

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<b>97-86-9 isobutyl methacrylate</b>	
LC50/96 h	20 mg/l (fish)
EC50/48 h	210 mg/l (invertebrates)
ECO/16 h	>281 mg/l ( <i>Pseudomonas fluorescens</i> )
EC50/72 h	44 mg/l ( <i>Pseudokirchnerella subcapitata</i> )
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
LC50/96 h	>100 mg/l (fish)
EC50/48 h	>500 mg/l ( <i>Daphnia magna</i> )
EC20/30 min	>1,000 mg/l (microorganisms)
EC50/72 h	>1,000 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> )
<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>110-43-0 heptan-2-one</b>	
Biodegradation	69 % (readily biodegradable) (OECD 310, 28 d, aerobic)
<b>hydrocarbons, C9, aromatics</b>	
Biodegradation	78 % (readily biodegradable) (OECD 301 F, 28 d, aerobic)
<b>67-64-1 acetone</b>	
Biodegradation	90.9 % (readily biodegradable) (OECD 301B, 28d, aerobic)
<b>75-65-0 2-methylpropan-2-ol</b>	
Biodegradation	% (readily biodegradable)
<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>97-86-9 isobutyl methacrylate</b>	
Biodegradation	74.3 % (readily biodegradable) (OECD 301 D, 28 d, aerobic)
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Biodegradation	100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)
<b>12.3 Bioaccumulative potential</b>	
<b>123-86-4 n-butyl acetate</b>	
BCF	15.3 (-)
log Pow	2.3
<b>67-64-1 acetone</b>	
BCF	3 (-)
log Pow	≤0.24
<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>97-86-9 isobutyl methacrylate</b>	
BCF	61.9
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
log Pow	0.56

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<b>12.4 Mobility in soil</b>	
<b>123-86-4 n-butyl acetate</b>	
log Koc	1.27
<b>67-64-1 acetone</b>	
Kd	1.5 l/kg
<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 Koc	5.31
Koc	204,400
<b>97-86-9 isobutyl methacrylate</b>	
log Koc	2.47
Koc	2,767
<b>108-65-6 2-methoxy-1-methylethyl acetate</b>	
Koc	1.7

**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


**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.**\* SECTION 14: Transport information**

<b>14.1 UN-Number</b> <b>ADR, IMDG, IATA</b>	UN1263
<b>14.2 UN proper shipping name</b> <b>ADR</b> <b>IMDG, IATA</b>	1263 PAINT PAINT
<b>14.3 Transport hazard class(es)</b> <b>ADR, IMDG, IATA</b>	
	
<b>Class</b>	3
<b>Label</b>	3

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<b>14.4 Packing group ADR, IMDG, IATA</b>	<b>III</b>
<b>14.5 Environmental hazards: Marine pollutant (IMDG):</b>	<i>Not applicable.</i> No
<b>14.6 Special precautions for user Danger code (Kemler): EMS Number: Stowage Category</b>	<i>Warning: Flammable liquids.</i> 30 F-E, S-E A
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
<b>Transport/Additional information:</b>	
<b>ADR</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Transport category</b>	3
<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

**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.

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.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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*H411 Toxic to aquatic life with long lasting effects.*

<b>Classification according to Regulation (EC) No 1272/2008</b>	
<i>Flammable liquids</i>	<i>Bridging principles</i>
<i>Skin sensitisation</i> <i>Specific target organ toxicity (single exposure)</i> <i>Hazardous to the aquatic environment - long-term (chronic) aquatic hazard</i>	<i>The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.</i>

**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*

*Flam. Liq. 3: Flammable liquids – Category 3*

*Acute Tox. 4: Acute toxicity - oral – 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*

*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/>

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