

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

1.1 Product identifier

Trade name: E1 ACRYLON AIR DRY 5100 2:1 UHS Acrylic Clear Coat

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:

Chemical Alliance Polska Sp. z o.o.
ul. Prosta 23, Łozienica
72-100 Goleniów
Tel. +48 91 41 65 440
info@cap.pl

Further information obtainable from: sds@cap.pl

1.4 Emergency telephone number: +48 91 41 65 440 (8:00-16:00)

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 CLP regulation.

Hazard pictograms



GHS02



GHS07

Signal word Danger

Hazard-determining components of labelling:

n-butyl acetate

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

3-trimethoxysilylpropane-1-thiol

dibutylbis(dodecylthio)stannane

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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-<25%
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;	
Reg.nr.: 01-2119902391-49	STOT SE 3, H336	
CAS: 110-19-0	isobutyl acetate	2.5-10%
EINECS: 203-745-1	⚠ Flam. Liq. 2, H225; ⚠ STOT SE 3, H336, EUH066	
Reg.nr.: 01-2119488971-22		
CAS: 108-65-6	2-methoxy-1-methylethyl acetate	1-5%
EINECS: 203-603-9	⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336	
Reg.nr.: 01-2119475791-29		
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: 4420-74-0	3-trimethoxysilylpropane-1-thiol	0.1-1%
EINECS: 224-588-5	⚠ Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Sens. 1B,	
Reg.nr.: 01-2120763539-41	H317	
List no.: 915-687-0	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and	0.1-<0.5%
Reg.nr.: 01-2119491304-40	Methyl 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: 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,	
Reg.nr.: 01-2119496068-27	H372; ⚠ Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); ⚠ Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 1185-81-5	dibutylbis(dodecylthio)stannane	0.1-<0.5%
EINECS: 214-688-7	⚠ Muta. 2, H341; Repr. 1B, H360; STOT RE 1, H372; ⚠ Aquatic Acute	
Reg.nr.: 01-2119841260-50	1, H400 (M=1); ⚠ Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	
List no.: 905-588-0	reaction mass of ethylbenzene and xylene	0.01-<0.5%
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

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.
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:

CO₂, 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.

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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.

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.

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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/m³, 200 ppm
Long-term value: 724 mg/m³, 150 ppm

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

110-43-0 heptan-2-one

WEL (Great Britain) Short-term value: 475 mg/m³, 100 ppm
Long-term value: 237 mg/m³, 50 ppm
Sk

IOELV (EU) Short-term value: 475 mg/m³, 100 ppm
Long-term value: 238 mg/m³, 50 ppm
Skin

110-19-0 isobutyl acetate

WEL (Great Britain) Short-term value: 903 mg/m³, 187 ppm
Long-term value: 724 mg/m³, 150 ppm

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

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

WEL (Great Britain) Short-term value: 548 mg/m³, 100 ppm
Long-term value: 274 mg/m³, 50 ppm
Sk

IOELV (EU) Short-term value: 550 mg/m³, 100 ppm
Long-term value: 275 mg/m³, 50 ppm
Skin

78-93-3 butanone

WEL (Great Britain) Short-term value: 899 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm
Sk, BMGV

IOELV (EU) Short-term value: 900 mg/m³, 300 ppm
Long-term value: 600 mg/m³, 200 ppm

112-07-2 2-butoxyethyl acetate

WEL (Great Britain) Short-term value: 332 mg/m³, 50 ppm
Long-term value: 133 mg/m³, 20 ppm
Sk

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

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77-58-7 dibutyltin dilaurate

WEL (Great Britain) Short-term value: 0.2 mg/m³
Long-term value: 0.1 mg/m³
as Sn; Sk

reaction mass of ethylbenzene and xylene

WEL (Great Britain) Short-term value: 441 mg/m³, 100 ppm
Long-term value: 220 mg/m³, 50 ppm
Sk; BMGV

IOELV (EU) Short-term value: 442 mg/m³, 100 ppm
Long-term value: 221 mg/m³, 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/m³ (acute - systemic effects, workers)
960 mg/m³ (acute - local effects, workers)
480 mg/m³ (long-term - systemic effects, workers)
480 mg/m³ (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/m³ (acute - systemic effects, workers)
394.25 mg/m³ (long-term - systemic effects, workers)

110-19-0 isobutyl acetate

Dermal DNEL 10 mg/kg bw/day (acute - systemic effects, workers)
10 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative DNEL 600 mg/m³ (acute - systemic effects, workers)
600 mg/m³ (acute - local effects, workers)
300 mg/m³ (long-term - systemic effects, workers)
300 mg/m³ (long-term - local effects, workers)

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

Dermal DNEL 153.5 mg/kg bw/day (long-term - systemic effects, workers)
Inhalative DNEL 275 mg/m³ (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/m³ (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/m³ (acute - systemic effects, workers)
333 mg/m³ (acute - local effects, workers)
133 mg/m³ (long-term - local 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/m³ (acute - systemic effects, workers)
2.35 mg/m³ (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/m³ (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)

110-19-0 isobutyl acetate

PNEC 0.17 mg/l (freshwater environment)
0.017 mg/l (marine environment)
200 mg/l (sewage treatment plants)
PNEC 0.877 mg/kg (freshwater sediment environment)
0.088 mg/kg (marine sediment environment)
0.075 mg/kg (soil)

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

PNEC 0.635 mg/l (freshwater environment)
0.0635 mg/l (marine environment)

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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)

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)

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)
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)

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Ingredients with biological limit values:

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): EH40/2020

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 (EN 14387)

Hand protection

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.
When choosing protective gloves, the breakthrough time, rate of penetration and degradation (EN 374) should be taken into account.

Material of gloves

Butyl rubber, BR
Nitrile rubber, NBR
PVA gloves

Recommended material thickness: ≥ 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

Permeation level and breakthrough time: level 6 ≥ 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/face protection Tightly sealed goggles (EN 166 / EN 170)
Body protection: Protective work clothing (EN 14325)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state	Liquid
Colour:	Colourless/light yellow
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	Undetermined
Boiling point or initial boiling point and boiling range	117.2 °C (110-19-0 isobutyl acetate)
Flammability	Highly flammable.
Lower and upper explosion limit	
Lower:	1.2 Vol % (123-86-4 n-butyl acetate)
Upper:	15 Vol % (123-86-4 n-butyl acetate)
Flash point:	<23 °C
Decomposition temperature:	Not determined
pH	Not applicable
Viscosity:	
Kinematic viscosity	Not determined
Dynamic:	Not determined
Solubility	
water:	Not miscible or difficult to mix.
Partition coefficient n-octanol/water (log value)	Not determined
Vapour pressure at 20 °C:	105 hPa (78-93-3 butanone)
Vapour pressure at 50 °C:	55 hPa
Density and/or relative density	
Density at 20 °C:	0.98-1 g/cm ³
Vapour density	Not determined

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Ignition temperature:	Not determined
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Change in condition

Evaporation rate	Not determined
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Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Highly flammable liquid and vapour.
Flammable solids	Void
Self-reactive substances and mixtures	Void

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Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

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.

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 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)

110-43-0 heptan-2-one

Oral LD50 1,600 mg/kg (rat)

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

Inhalative LC50/4 h > 16.7 mg/l (rat) (vapour)

110-19-0 isobutyl acetate

Oral LD50 13,400 mg/kg (rat)

> 17,400 mg/kg (rabbit)

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

Oral LD50 > 5,000 mg/kg (rat)

Dermal LD50 > 5,000 mg/kg (rabbit)

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

78-93-3 butanone

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

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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

4420-74-0 3-trimethoxysilylpropane-1-thiol

Oral LD50 2,940 mg/kg (rat)
Dermal LD50 5,880 mg/kg (rabbit)

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)

77-58-7 dibutyltin dilaurate

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

1185-81-5 dibutylbis(dodecylthio)stannane

Oral LD50 >2,000 mg/kg (rat)
Dermal LD50 1,000-2,000 mg/kg (rabbit)

reaction mass of ethylbenzene and xylene

Oral LD50 4,300 mg/kg (rat)
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

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)

110-19-0 isobutyl acetate

LC50/96 h 16.6 mg/l (ory)
EC50/48 h 24.6 mg/l (Daphnia magna)
EC50/72 h 246 mg/l (algae)
LC50/21 d 43.5 mg/l (Daphnia magna)

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

LC50/96 h >100 mg/l (fish)
EC50/48 h >500 mg/l (Daphnia magna)
EC20/30 min >1,000 mg/l (microorganisms)
EC50/72 h >1,000 mg/l (algae)
EC50 >100 mg/l (algae)
>100 mg/l (fish)
>100 mg/l (Daphnia magna)

78-93-3 butanone

EC50/7 d >100 mg/l (Desmodesmus subspicatus)
EC50/48 h >100 mg/l (Leuciscus idus melanotus)
>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)

4420-74-0 3-trimethoxysilylpropane-1-thiol

EC50/48 h 6.7 mg/l (Daphnia magna)

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)

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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)

1185-81-5 dibutylbis(dodecylthio)stannane

EC50/48 h 0.11 mg/l (Daphnia magna)

EC50/72 h ≥1.6 mg/l (Scenedesmus subspicatus)

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)

110-19-0 isobutyl acetate

Biodegradation 81 % (readily biodegradable) (OECD 301 D, 20 d, aerobic)

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

Biodegradation 100 % (readily biodegradable) (OECD 302 B, 8 d, aerobic)

78-93-3 butanone

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

112-07-2 2-butoxyethyl acetate

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

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)

1185-81-5 dibutylbis(dodecylthio)stannane

Biodegradation 0 % (not readily biodegradable) (OECD 301 F, 28 d, aerobic)

12.3 Bioaccumulative potential

123-86-4 n-butyl acetate

BCF 15.3 (-)

log Pow 2.3

110-19-0 isobutyl acetate

BCF 15 (-)

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log Kow 2.3

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

log Pow 0.56

78-93-3 butanone

log Pow 0.3

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

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

Koc 1.7

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

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14.2 UN proper shipping name

ADR 1263 PAINT
IMDG, IATA PAINT

14.3 Transport hazard class(es)

ADR, IMDG, IATA



Class 3

Label 3

14.4 Packing group

ADR, IMDG, IATA II

14.5 Environmental hazards: Not applicable

14.6 Special precautions for user Warning: Flammable liquids.

Hazard identification number (Kemler code): 33

EMS Number: F-E,S-E

Stowage Category B

14.7 Maritime transport in bulk according to IMO instruments Not applicable

Transport/Additional information:

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

IMDG
Limited quantities (LQ) 5L
UN "Model Regulation": UN 1263 PAINT, 3, II

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Poisons Act

Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

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

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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

1185-81-5 dibutylbis(dodecylthio)stannane: Annex I Part 1

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

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

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.

SECTION 16: Other information

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.

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- H341 Suspected of causing genetic defects.
- H360 May damage fertility or the unborn child.
- H360FD May damage fertility. May damage the unborn child.
- H361f Suspected of damaging fertility.
- H370 Causes damage to organs.
- H372 Causes damage to organs through prolonged or repeated exposure.
- 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.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Classification according to Regulation (EC) No 1272/2008

Flammable liquids

Bridging principles

Skin sensitisation

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

Specific target organ toxicity (single exposure)

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

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

ATE: Acute toxicity estimate values

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

Skin Sens. 1B: Skin sensitisation. Hazard category 1B

Muta. 2: Mutagenic effect on germ cells. Hazard category 2

Repr. 1B: Reproductive toxicity. Hazard category 1B

Repr. 1B: Reproductive toxicity. Hazard category 1B

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

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

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