

## SAFETY DATA SHEET

## C.A.R.FIT Rapid Air Clear Coat VOC

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

## 1.1. Product identifier

## Trade name

C.A.R.FIT Rapid Air Clear Coat VOC

## Other names / Synonyms

C.A.R.FIT Rapid Air Clear Coat VOC

## Product no.

7-325/-326-1000/-5000

## ▼ Unique formula identifier (UFI)

DE6K-JCNP-X00K-HDHM

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

## ▼ Relevant identified uses of the substance or mixture

Paint

Restricted to professional users.

## ▼ Uses advised against

None known.

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

## Company and address

**August Handel GmbH**

Ahornstraße 12

14959 Trebbin

Germany

+49 (0)33731 70 79 60

www.augusthandel.com

## E-mail

info@augusthandel.com

## Revision

13/08/2025

## SDS Version

2.0

## Date of previous version

19/06/2022 (1.0)

## 1.4. ▼ Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)

General public:

England - Dial 111 to reach NHS 111 (24 hour service)

Scotland - Dial 111 to reach NHS 24 (24 hour service)

Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)

See section 4 "First aid measures".

## SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

## 2.1. ▼ Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.

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

STOT SE 3; H336, May cause drowsiness or dizziness.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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

## 2.2. Label elements

### Hazard pictogram(s)



### Signal word

Warning

### ▼ Hazard statement(s)

Flammable liquid and vapour. (H226)  
May cause an allergic skin reaction. (H317)  
May cause drowsiness or dizziness. (H336)  
Harmful to aquatic life with long lasting effects. (H412)

### Precautionary statement(s)

#### ▼ General

Not applicable.

#### ▼ Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)  
Avoid release to the environment. (P273)

#### ▼ Response

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. (P303+P361+P353)  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)

#### ▼ Storage

Store in a well-ventilated place. Keep container tightly closed. (P403+P233)

#### ▼ Disposal

Dispose of contents/container in accordance with national regulation. (P501)

### ▼ Hazardous substances

3-,3-sulfanylpropanoyl,oxy,-2,2-bis,3-sulfanylpropanoyl,oxy,methyl,propyl,3-sulfanylpropanoate  
Reaction mass of pentamethyl-piperidyl sebacate

### ▼ Additional labelling

EUH066, Repeated exposure may cause skin dryness or cracking.

UFI: DE6K-JCNP-X00K-HDHM

### ▼ VOC

VOC content: 331 g/L  
MAXIMUM VOC CONTENT (Phase II, category B/d: 420 g/L)

## 2.3. Other hazards

### ▼ Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.  
This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: Composition/information on ingredients

### 3.1. ▼ Substances

Not applicable. This product is a mixture.

### 3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
n-butyl acetate	CAS No.: 123-86-4 EC No.: 204-658-1 UK-REACH: Index No.: 607-025-00-1	25 - 35%	EUH066 Flam. Liq. 3, H226 STOT SE 3, H336	[1]
2-butoxyethyl	CAS No.: 112-07-2	5 - 10%	Acute Tox. 4, H312	[1]

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

acetate;butylglycol acetate	EC No.: 203-933-3 UK-REACH: Index No.: 607-038-00-2		Acute Tox. 4, H332	
2-methoxy-1-methylethyl acetate	CAS No.: 108-65-6 EC No.: 203-603-9 UK-REACH: Index No.: 607-195-00-7	2,5 - 5%	Flam. Liq. 3, H226	[1]
heptan-2-one;methyl amyl ketone	CAS No.: 110-43-0 EC No.: 203-767-1 UK-REACH: Index No.: 606-024-00-3	2,5 - 5%	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	[1]
Ethylene bis(3-mercaptopropionate)	CAS No.: 22504-50-3 EC No.: 245-044-3 UK-REACH: Index No.:	0,1 - 1%	Acute Tox. 4, H302 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
dibutyltin dilaurate;dibutyl[bis(dodecanoyloxy)]stannane	CAS No.: 77-58-7 EC No.: 201-039-8 UK-REACH: Index No.: 050-030-00-3	0,1 - 0,3%	Muta. 2, H341 Repr. 1B, H360FD STOT RE 1, H372	[4]
3-,3-sulfanylpropanoyl,oxy,-2,2-bis,3-sulfanylpropanoyl,oxy,methyl,propyl,3-sulfanylpropanoate	CAS No.: 7575-23-7 EC No.: 231-472-8 UK-REACH: Index No.:	0,02 - 0,2%	Acute Tox. 4, H302 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Reaction mass of pentamethyl-piperidyl sebacate	CAS No.: EC No.: 915-687-0 UK-REACH: Index No.:	0,01 - 0,1%	Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	
Ethylene di(S-thioacetate)	CAS No.: 123-81-9 EC No.: 204-653-4 UK-REACH: Index No.:	0,01 - 0,1%	Acute Tox. 4, H302 Skin Sens. 1A, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335	
Bis(isopropyl)naphthalene	CAS No.: 38640-62-9 EC No.: 254-052-6 UK-REACH: Index No.:	0,01 - 0,1%	Asp. Tox. 1, H304 Aquatic Chronic 1, H410 (M=1)	
3-mercaptopropionic acid	CAS No.: 107-96-0 EC No.: 203-537-0 UK-REACH: Index No.:	<0.01%	Met. Corr. 1, H290 Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 4, H332	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

#### ▼ Other information

[1] European occupational exposure limit.

[4] Substance is listed in Annex I of the Prior Informed Consent Regulation (PIC, Regulation (EU) 649/2012).

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### ▼ Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### ▼ Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

### 4.2. ▼ Most important symptoms and effects, both acute and delayed

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.

Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system.

Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### 4.3. ▼ Indication of any immediate medical attention and special treatment needed

Call a POISON CENTER/doctor if you feel unwell.

If skin irritation or rash occurs: Get medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. ▼ Special hazards arising from the substance or mixture

Flammable liquid and vapour.

In use may form flammable/explosive vapour-air mixture.

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. ▼ Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

## SECTION 6: Accidental release measures

### 6.1. ▼ Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

### 6.3. ▼ Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. ▼ Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: Handling and storage

### 7.1. ▼ Precautions for safe handling

Ground and bond container and receiving equipment.

Use explosion-proof [electrical/lighting/ventilating] equipment.

Use non-sparking tools.

Take action to prevent static discharges.

It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.

Avoid contact during pregnancy and while nursing.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. ▼ Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Take action to prevent static discharges.

Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

#### Recommended storage material

Always store in containers of the same material as the original container.

#### Storage conditions

Room temperature 18 to 23°C

#### ▼ Incompatible materials

Strong oxidizing agents

### 7.3. ▼ Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. ▼ Control parameters

n-butyl acetate

Long term exposure limit (8 hours) (ppm): 150

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 724

Short term exposure limit (15 minutes) (ppm): 200

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 966

2-butoxyethyl acetate;butylglycol acetate

Long term exposure limit (8 hours) (ppm): 20

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 133  
Short term exposure limit (15 minutes) (ppm): 50  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 332

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

2-methoxy-1-methylethyl acetate

Long term exposure limit (8 hours) (ppm): 50  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 274  
Short term exposure limit (15 minutes) (ppm): 100  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 548

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

heptan-2-one;methyl amyl ketone

Long term exposure limit (8 hours) (ppm): 50  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 237  
Short term exposure limit (15 minutes) (ppm): 100  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 475

Annotations:

Sk = Can be absorbed through the skin and lead to systemic toxicity.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.  
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

#### ▼ DNEL

2-butoxyethyl acetate;butylglycol acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	102 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	169 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	72 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	120 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	80 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	133 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	200 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	333 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	8.6 mg/kg bw/day
Short term – Systemic effects - General population	Oral	36 mg/kg bw/day

2-methoxy-1-methylethyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	320 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	796 mg/kg bw/day
Long term – Local effects - General population	Inhalation	33 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	33 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	275 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	550 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	36 mg/kg bw/day
Short term – Systemic effects - General population	Oral	500 mg/kg bw/day

3-,3-sulfanylpropanoyl,oxy,-2,2-bis,3-sulfanylpropanoyl,oxy,methyl,propyl,3-sulfanylpropanoate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2.5 mg/kg bw/day

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Systemic effects - Workers	Dermal	7 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	870 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	4.93 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	250 µg/kg bw/day
<b>Bis(isopropyl)naphthalene</b>		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	850 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	2.38 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.48 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	8.4 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	850 µg/kg bw/day
<b>dibutyltin dilaurate;dibutyl[bis(dodecanoyloxy)]stannane</b>		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	160 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	430 µg/kg bw/day
Short term – Systemic effects - General population	Dermal	500 µg/kg bw/day
Short term – Systemic effects - Workers	Dermal	2.08 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	4.6 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	20 µg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	40 µg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	59 µg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	3.1 µg/kg bw/day
Short term – Systemic effects - General population	Oral	20 µg/kg bw/day
<b>Ethylene bis(3-mercaptopropionate)</b>		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	120 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	336 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	209 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.18 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	120 µg/kg bw/day
<b>Ethylene di(S-thioacetate)</b>		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	50 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	140 µg/kg bw/day
Long term – Systemic effects - General population	Inhalation	74 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	490 µg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	50 µg/kg bw/day
<b>heptan-2-one;methyl amyl ketone</b>		
<b>Duration:</b>	<b>Route of exposure:</b>	<b>DNEL:</b>
Long term – Systemic effects - General population	Dermal	23.32 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	54.27 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	84.31 mg/m <sup>3</sup>

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Long term – Systemic effects - Workers	Inhalation	394.25 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	1516 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	23.32 mg/kg bw/day

#### n-butyl acetate

Duration:	Route of exposure:	DNEL:
Long term	-	
Short term	-	
Long term – Systemic effects - General population	Dermal	3.4 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	7 mg/kg bw/day
Short term – Systemic effects - General population	Dermal	6 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Local effects - General population	Inhalation	35.7 mg/m <sup>3</sup>
Long term – Local effects - Workers	Inhalation	300 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Inhalation	12 mg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	48 mg/m <sup>3</sup>
Short term – Local effects - General population	Inhalation	300 mg/m <sup>3</sup>
Short term – Local effects - Workers	Inhalation	600 mg/m <sup>3</sup>
Short term – Systemic effects - General population	Inhalation	300 mg/m <sup>3</sup>
Short term – Systemic effects - Workers	Inhalation	600 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	2 mg/kg bw/day
Short term – Systemic effects - General population	Oral	2 mg/kg bw/day

#### Reaction mass of pentamethyl-piperidyl sebacate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	900 µg/kg bw/day
Long term – Systemic effects - Workers	Dermal	1.8 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	310 µg/m <sup>3</sup>
Long term – Systemic effects - Workers	Inhalation	1.27 mg/m <sup>3</sup>
Long term – Systemic effects - General population	Oral	180 µg/kg bw/day

#### ▼ PNEC

##### 2-butoxyethyl acetate;butylglycol acetate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		304 µg/L
Freshwater sediment		2.03 mg/kg
Intermittent release (freshwater)		560 µg/L
Marine water		30.4 µg/L
Marine water sediment		203 µg/kg
Predators		60 mg/kg
Sewage treatment plant		90 mg/L
Soil		415 µg/kg

##### 2-methoxy-1-methylethyl acetate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		635 µg/L
Freshwater sediment		3.29 mg/kg



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Intermittent release (freshwater)	6.35 mg/L
Marine water	63.5 µg/L
Marine water sediment	329 µg/kg
Sewage treatment plant	100 mg/L
Soil	290 µg/kg
<b>3-,3-sulfanylpropanoyl,oxy,-2,2-bis,3-sulfanylpropanoyl,oxy,methyl,propyl,3-sulfanylpropanoate</b>	
<b>Route of exposure:</b>	<b>Duration of Exposure:</b> <b>PNEC:</b>
Freshwater	420 ng/L
Freshwater sediment	18 µg/kg
Intermittent release (freshwater)	4.2 µg/L
Marine water	42 ng/L
Marine water sediment	1.81 µg/kg
Sewage treatment plant	2.39 mg/L
Soil	3.37 µg/kg
<b>Bis(isopropyl)naphthalene</b>	
<b>Route of exposure:</b>	<b>Duration of Exposure:</b> <b>PNEC:</b>
Freshwater	236 ng/L
Freshwater sediment	853 µg/kg
Marine water	23.6 ng/L
Marine water sediment	85.3 µg/kg
Predators	25 mg/kg
Sewage treatment plant	150 µg/L
Soil	171 µg/kg
<b>dibutyltin dilaurate;dibutyl[bis(dodecanoyloxy)]stannane</b>	
<b>Route of exposure:</b>	<b>Duration of Exposure:</b> <b>PNEC:</b>
Freshwater	463 ng/L
Freshwater sediment	50 µg/kg
Intermittent release (freshwater)	4.63 µg/L
Intermittent release (marine water)	4.63 µg/L
Marine water	46.3 ng/L
Marine water sediment	5 µg/kg
Predators	200 µg/kg
Sewage treatment plant	100 mg/L
Soil	40.7 µg/kg
<b>Ethylene bis(3-mercaptopropionate)</b>	
<b>Route of exposure:</b>	<b>Duration of Exposure:</b> <b>PNEC:</b>
Freshwater	420 ng/L
Freshwater sediment	6 µg/kg
Intermittent release (freshwater)	4.2 µg/L
Marine water	42 ng/L
Marine water sediment	600 ng/kg
Sewage treatment plant	3.1 mg/L
Soil	953 ng/kg

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Ethylene di(S-thioacetate)		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		500 ng/L
heptan-2-one;methyl amyl ketone		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		98.2 µg/L
Freshwater sediment		1.89 mg/kg
Intermittent release (freshwater)		982 µg/L
Marine water		9.82 µg/L
Marine water sediment		189 µg/kg
Sewage treatment plant		12.5 mg/L
Soil		321 µg/kg
n-butyl acetate		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		180 µg/L
Freshwater sediment		981 µg/kg
Intermittent release (freshwater)		360 µg/L
Marine water		18 µg/L
Marine water sediment		98.1 µg/kg
Sewage treatment plant		35.6 mg/L
Soil		90.3 µg/kg
Reaction mass of pentamethyl-piperidyl sebacate		
<b>Route of exposure:</b>	<b>Duration of Exposure:</b>	<b>PNEC:</b>
Freshwater		2.2 µg/L
Freshwater sediment		1.05 mg/kg
Intermittent release (freshwater)		9 µg/L
Marine water		220 ng/L
Marine water sediment		110 µg/kg
Sewage treatment plant		1 mg/L
Soil		210 µg/kg

## 8.2. ▼ Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

### Exposure scenarios

There are no exposure scenarios implemented for this product.

### Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

### ▼ Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

### ▼ Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

### ▼ Measures to avoid environmental exposure

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Keep damming materials near the workplace. If possible, collect spillage during work.

#### Individual protection measures, such as personal protective equipment


##### Generally

Use only UKCA marked protective equipment.


##### ▼ Respiratory Equipment

Type	Class	Colour	Standards	
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.				
Combination filter A2P2	Class 2	Brown/White	EN14387	


##### ▼ Skin protection

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	

##### ▼ Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Gloves	-	-	EN374	

##### ▼ Eye protection

Type	Standards	
Safety glasses with side shields.	EN166	

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Colourless

#### Odour / Odour threshold

No data available

#### pH

Not applicable - water solubility < 1 mg/L @ 20°C

#### Density (g/cm<sup>3</sup>)

1-1,04 (20 °C)

#### Kinematic viscosity

No data available

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### Particle characteristics

No data available

#### Phase changes

##### Melting point/Freezing point (°C)

No data available

##### Softening point/range (°C)

Does not apply to liquids.

##### Boiling point (°C)

No data available

##### Vapour pressure

No data available

##### Relative vapour density

No data available

##### Decomposition temperature (°C)

No data available

#### Data on fire and explosion hazards

##### ▼ Flash point (°C)

60

##### ▼ Flammability (°C)

The material is ignitable.

##### Auto-ignition temperature (°C)

No data available

##### Lower and upper explosion limit (% v/v)

No data available

#### Solubility

##### Solubility in water

No data available

##### n-octanol/water coefficient (LogKow)

No data available

##### Solubility in fat (g/L)

No data available

#### 9.2. Other information

##### Evaporation rate (n-butylacetate = 100)

No data available

##### ▼ VOC (g/L)

331

##### ▼ Other physical and chemical parameters

No data available.

##### ▼ Oxidizing properties

No data available

## SECTION 10: Stability and reactivity

#### 10.1. ▼ Reactivity

No data available.

#### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

#### 10.3. ▼ Possibility of hazardous reactions

None known.

#### 10.4. ▼ Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

#### 10.5. ▼ Incompatible materials

Strong oxidizing agents

#### 10.6. ▼ Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

## ▼ Acute toxicity

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	10768 mg/kg ·

Product/substance	n-butyl acetate
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	6 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	21,0 mg/l 4h ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	10760 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	10770 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>17600 mg/kg ·

Product/substance	n-butyl acetate
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>21,0 mg/m <sup>3</sup> ·

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

**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 sensitisation**

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

**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.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

#### 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

##### Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

##### ▼ Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

##### ▼ Other information

None known.

## SECTION 12: Ecological information

### 12.1. ▼ Toxicity

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	18 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	100 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	185 mg/L ·

Product/substance	n-butyl acetate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	62 mg/L ·

Product/substance	n-butyl acetate
Species:	Crustacean
Duration:	48 hours
Test:	EC50
Result:	32 mg/L ·

Product/substance	n-butyl acetate
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	44 mg/L ·

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	n-butyl acetate
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	320 mg/L ·

Product/substance	n-butyl acetate
Species:	Daphnia
Duration:	24 hours
Test:	LC50
Result:	205 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	0,9 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Fish
Duration:	96 hours
Test:	LC100
Result:	2,2 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Fish
Duration:	96 hours
Test:	NOEC
Result:	0,22 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Aquatic invertebrates
Duration:	21 days
Test:	NOEC
Result:	1-6,3 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Aquatic invertebrates
Duration:	21 days
Test:	LOEC
Result:	1,6-6,3 mg/L ·

Product/substance	Reaction mass of pentamethyl-piperidyl sebacate
Species:	Aquatic invertebrates
Duration:	21 days
Test:	EC50
Result:	2,2 mg/L ·

Harmful to aquatic life with long lasting effects.

#### 12.2. ▼ Persistence and degradability

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

#### 12.3. ▼ Bioaccumulative potential

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

#### 12.4. ▼ Mobility in soil

No data available.

#### 12.5. ▼ Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### 12.6. ▼ Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

#### 12.7. Other adverse effects

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

## SECTION 13: Disposal considerations

### 13.1. ▼Waste treatment methods

Product is covered by the regulations on hazardous waste.

HP 3 - Flammable

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

#### ▼EWC code

Not applicable.

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L Tunnel restriction code: (D/E) See below for additional information .
IMDG	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L EmS: F-E S-E See below for additional information .
IATA	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	See below for additional information .

\* Packing group

\*\* Environmental hazards

#### ▼Additional information

This product is within scope of the regulations of transport of dangerous goods.

Although this product is environmentally hazardous, the environmentally hazardous substance mark has been



According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

omitted as the product is supplied in packaging with a maximum quantity of 5 L / 5 kg.

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ADR / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

#### 14.6. ▼ Special precautions for user

Not applicable.

#### 14.7. ▼ Maritime transport in bulk according to IMO instruments

No data available.

### SECTION 15: Regulatory information

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

##### ▼ Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

##### ▼ Demands for specific education

No specific requirements.

#### SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

##### ▼ REACH, Annex XVII

n-butyl acetate is subject to UK-REACH restrictions (entry 40).

2-methoxy-1-methylethyl acetate is subject to UK-REACH restrictions (entry 40).

heptan-2-one;methyl amyl ketone is subject to UK-REACH restrictions (entry 40).

##### ▼ Additional information

Not applicable.

##### ▼ Sources

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Control of Major Accident Hazards (COMAH) Regulations 2015.

Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals as retained and amended in UK law.

2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

#### 15.2. Chemical safety assessment

No

### SECTION 16: Other information

#### ▼ Full text of H-phrases as mentioned in section 3

H314, Repeated exposure may cause skin dryness or cracking.

H226, Flammable liquid and vapour.

H290, May be corrosive to metals.

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H304, May be fatal if swallowed and enters airways.

H312, Harmful in contact with skin.

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

H314, Causes severe skin burns and eye damage.  
 H317, May cause an allergic skin reaction.  
 H318, Causes serious eye damage.  
 H319, Causes serious eye irritation.  
 H332, Harmful if inhaled.  
 H335, May cause respiratory irritation.  
 H336, May cause drowsiness or dizziness.  
 H341, Suspected of causing genetic defects.  
 H360FD, May damage fertility. May damage the unborn child.  
 H372, Causes damage to organs through prolonged or repeated exposure.  
 H400, Very toxic to aquatic life.  
 H410, Very toxic to aquatic life with long lasting effects.

#### ▼ Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
 ATE = Acute Toxicity Estimate  
 BCF = Bioconcentration Factor  
 CAS = Chemical Abstracts Service  
 CE = Conformité Européenne (European conformity)  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 CSA = Chemical Safety Assessment  
 CSR = Chemical Safety Report  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EINECS = European Inventory of Existing Commercial chemical Substances  
 ES = Exposure Scenario  
 EUH statement = CLP-specific Hazard statement  
 EuPCS = European Product Categorisation System  
 EWC = European Waste Catalogue  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 GWP = Global warming potential  
 IARC = International Agency for Research on Cancer (IARC)  
 IATA = International Air Transport Association  
 IBC = Intermediate Bulk Container  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 RRN = REACH Registration Number  
 SCL = A specific concentration limit  
 SVHC = Substances of Very High Concern  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TWA = Time weighted average  
 UN = United Nations  
 UVBC = Unknown or variable composition, complex reaction products or of biological materials  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative

#### ▼ Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
 The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.  
 The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

S. Grade

#### ▼ Other

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

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A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en