

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Carsystem 2K CLEAR VOC SPEED PLUS

Version 3.1AUS DE / EN Revision Date: 11.12.2023 Date of last issue: 06.09.2022  
Date of first issue: 22.07.2022

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

#### 1.1 Product identifier

Trade name : Carsystem 2K CLEAR VOC SPEED PLUS  
Product code : 151.899

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

Use of the Sub-stance/Mixture : Paints  
Recommended restrictions on use : Reserved for industrial and professional use.

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

Company : Vosschemie GmbH  
Esinger Steinweg 50  
25436 Uetersen  
Germany  
info@vosschemie.de  
Telephone : 04122 717 0  
Telefax : 04122 717158  
Responsible Department : Laboratory  
04122 717 0  
sds@vosschemie.de

#### 1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord, Göttingen,  
Deutschland  
0551 19240

### **IMPORTED BY:**

**Sydney Automotive Paints & Equipment PTY LTD Unit A3, 366 Edgar St. Condell Park NSW 2200 AUSTRALIA, Tel. +02 9772 9000 , +02 9772 9001 ·**

**Emergency telephone number: If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia 131 126, New Zealand 0800 764 766**

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### SECTION 2: Hazards identification



#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

**Labeling (REGULATION (EC) No 1272/2008)**

Hazard pictograms	:	 
Signal Word	:	Warning
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary Statements	:	<b>Prevention:</b> P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing mist or vapors. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. <b>Response:</b> P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. <b>Disposal:</b>

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P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

### Hazardous ingredients which must be listed on the label:

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

pentaerythritol tetrakis(3-mercaptopropionate)

dibutylbis(dodecylthio)stannane

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Mixture

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 25 - <= 50
pentan-2-one	107-87-9 203-528-1	Flam. Liq. 2; H225 Acute Tox. 4; H302 Eye Irrit. 2; H319	>= 2,5 - <= 10
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 1
		M-Factor (Acute)	

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		aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7 231-472-8 01-2119486981-23	Acute Tox. 4; H302 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,5
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1  Acute toxicity estimate  Acute oral toxicity: 1.001 mg/kg	
dibutylbis(dodecylthio)stannane	1185-81-5 214-688-7 01-2119841260-50	Acute Tox. 4; H312 Skin Irrit. 2; H315 Skin Sens. 1; H317 Muta. 2; H341 Repr. 1B; H360 STOT RE 1; H372 (thymus) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - < 0,3
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1  Acute toxicity estimate  Acute dermal toxicity: 1.001 mg/kg	

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures****4.1 Description of first-aid measures**

General advice : In the case of accident or if you feel unwell, seek medical ad-

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- vice immediately.  
Move out of dangerous area.  
Take off contaminated clothing and shoes immediately.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
Show this material safety data sheet to the doctor in attendance.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.  
If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Call a physician if irritation develops or persists.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
If easy to do, remove contact lens, if worn.  
Consult a physician.
- If swallowed : Do NOT induce vomiting.  
Call a physician immediately.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

- Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire fighting : Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
- Hazardous combustion products : Hazardous decomposition products due to incomplete combustion  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

**5.3 Advice for firefighters**

- Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Wear personal protective equipment.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation, especially in confined areas.  
Remove all sources of ignition.  
Do not smoke.  
Avoid contact with skin, eyes and clothing.  
In the case of vapor formation use a respirator with an approved filter.

**6.2 Environmental precautions**

- Environmental precautions : Prevent spreading over a wide area (e.g., by containment or oil barriers).  
Do not flush into surface water or sanitary sewer system.  
Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.  
Do not flush with water.

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### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

- Advice on safe handling : Keep container closed when not in use.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.
- Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

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

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.
- Further information on storage conditions : Keep away from heat and sources of ignition. Protect from moisture. Keep away from direct sunlight.
- Advice on common storage : Keep away from food and drink.  
Incompatible with oxidizing agents.  
Incompatible with strong acids and bases.
- Storage class (TRGS 510) : 3

### 7.3 Specific end use(s)

- Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit category: 2;(I)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		STEL	150 ppm 723 mg/m <sup>3</sup>	2019/1831/E U
		Further information: Indicative		
		TWA	50 ppm 241 mg/m <sup>3</sup>	2019/1831/E U

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	Further information: Indicative			
ethyl 3-ethoxypropionate	763-69-9	AGW	100 ppm 610 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 1;(l)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
dibutylbis(dodecylthio)stannane	1185-81-5	AGW (Vapour and aerosols)	0,0018 ppm 0,009 mg/m <sup>3</sup> (Tin)	DE TRGS 900
	Peak-limit category: 1;(l)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, harm to the unborn child can not be excluded			

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Routes of exposure	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	600 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects, Acute systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	300 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects, Acute systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects, Acute systemic effects	2 mg/kg bw/day
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Workers	Inhalation	Long-term systemic effects	0,68 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	0,5 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,17 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	0,25 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,05 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**



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Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0,18 mg/l
	Sea water	0,018 mg/l
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Sea sediment	0,098 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry weight (d.w.)
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Fresh water	0,002 mg/l
	Fresh water sediment	1,05 mg/kg dry weight (d.w.)
	Sea sediment	0,11 mg/kg dry weight (d.w.)
	Soil	0,21 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : butyl-rubber

Material : PVA

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : >= 0,7 mm

Directive : DIN EN 374

Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
Use the indicated respiratory protection if the occupational

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exposure limit is exceeded and/or in case of product release (dust).

Filter type : Combined particulates and organic vapor type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
Avoid contact with the skin and the eyes.  
Use only with adequate ventilation.

### Environmental exposure controls

Soil : Avoid subsoil penetration.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Color : colorless  
light yellow

Odor : characteristic

Odor Threshold : not determined  
not determined

Melting point/range : not determined

Boiling point/boiling range : not determined

Upper explosion limit / Upper flammability limit : Upper explosion limit  
8,0 %(V)

Lower explosion limit / Lower flammability limit : Lower explosion limit  
1,2 %(V)

Flash point : > 23 °C

Autoignition temperature : not determined

pH : not determined substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, kinematic : not determined

Solubility(ies)  
Water solubility : immiscible

Vapor pressure : 8,0 hPa (20 °C)

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Density : 1,1 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

Explosives : In use, may form flammable/explosive vapor-air mixture.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Incompatible with strong acids and bases.  
Reaction with strong oxidizing agents.  
Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Not classified based on available information.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10.760 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LD50 (Rat): > 21 mg/l

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Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg  
Method: OECD Test Guideline 402

### **pentan-2-one:**

Acute oral toxicity : LD50 (Mouse): 1.600 mg/kg  
Method: OECD Test Guideline 401  
Assessment: The component/mixture is moderately toxic after single ingestion.

Acute inhalation toxicity : LC50: > 25,5 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 436

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **pentaerythritol tetrakis(3-mercaptopropionate):**

Acute oral toxicity : LD50 (Rat): > 1.000 - < 2.000 mg/kg  
Method: OECD Test Guideline 423

Acute inhalation toxicity : LC50 (Rat): 3.363 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **dibutylbis(dodecylthio)stannane:**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423

Acute dermal toxicity : LD50 Dermal (Rabbit): > 1.000 - < 2.000 mg/kg  
Method: OECD Test Guideline 402

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

### **Components:**

#### **dibutylbis(dodecylthio)stannane:**

Result : Irritating to skin.

### **Serious eye damage/eye irritation**

Causes serious eye irritation.

### **Product:**

Result : Irritating to eyes.

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### Components:

#### **pentan-2-one:**

Result : Moderate eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

### Components:

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

Assessment : The product is a skin sensitizer, sub-category 1A.

#### **pentaerythritol tetrakis(3-mercaptopropionate):**

Routes of exposure : Dermal  
Species : Guinea pig  
Assessment : The product is a skin sensitizer, sub-category 1A.  
Method : OECD Test Guideline 406  
Result : positive

#### **dibutylbis(dodecylthio)stannane:**

Species : Guinea pig  
Assessment : May cause sensitization by skin contact.  
Method : OECD Test Guideline 406  
Result : positive

### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### Components:

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

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

#### **dibutylbis(dodecylthio)stannane:**

Reproductive toxicity - Assessment : May damage fertility. May damage the unborn child.

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### STOT-single exposure

May cause drowsiness or dizziness.

### STOT-repeated exposure

Not classified based on available information.

### Components:

#### **dibutylbis(dodecylthio)stannane:**

Target Organs : thymus  
Assessment : Causes damage to organs through prolonged or repeated exposure.

### Aspiration toxicity

Not classified based on available information.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **n-butyl acetate:**

Toxicity to fish : (Pimephales promelas (fathead minnow)): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 647,7 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 23 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

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

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 0,9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
	NOEC (Danio rerio (zebra fish)): 0,22 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): 1,68 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 1,0 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	: 1

**pentaerythritol tetrakis(3-mercaptopropionate):**

Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,42 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,35 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
M-Factor (Acute aquatic toxicity)	: 1
M-Factor (Chronic aquatic toxicity)	: 1

**dibutylbis(dodecylthio)stannane:**

Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 0,11 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	: EC50 (Desmodesmus subspicatus (green algae)): >= 1,6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	: 1

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M-Factor (Chronic aquatic toxicity) : 1

### 12.2 Persistence and degradability

#### Components:

##### **n-butyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 83 %  
Exposure time: 28 d

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

Biodegradability : Biodegradation: 38 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

##### **pentaerythritol tetrakis(3-mercaptopropionate):**

Biodegradability : Result: Not rapidly biodegradable  
Biodegradation: 26 %  
Exposure time: 28 d

##### **dibutylbis(dodecylthio)stannane:**

Biodegradability : Result: Not biodegradable

### 12.3 Bioaccumulative potential

#### Components:

##### **n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
Method: OECD Test Guideline 117

##### **pentan-2-one:**

Partition coefficient: n-octanol/water : log Pow: 0,857 (20 °C)

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

Bioaccumulation : Bioconcentration factor (BCF): < 9,7

Partition coefficient: n-octanol/water : log Pow: 2,37 - 2,77 (25 °C)  
pH: 7  
Method: OECD Test Guideline 107

##### **pentaerythritol tetrakis(3-mercaptopropionate):**

Bioaccumulation : Bioconcentration factor (BCF): 23,7



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Partition coefficient: n-octanol/water : log Pow: 2,8 (30 °C)

### **dibutylbis(dodecylthio)stannane:**

Partition coefficient: n-octanol/water : log Pow: 3,11 (22 °C)

### 12.4 Mobility in soil

#### Components:

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

Distribution among environmental compartments : log Koc: 5,31

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Dispose of in accordance with local regulations.  
Send to a licensed waste management company.

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Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Store containers and offer for recycling of material when in accordance with the local regulations.  
Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:  
08 01 11, waste paint and varnish containing organic solvents or other hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADG	: UN 1263
ADN	: UN 1263
ADR	: UN 1263
RID	: UN 1263
IMDG	: UN 1263
IATA	: UN 1263

#### 14.2 UN proper shipping name

ADG	: PAINT
ADN	: PAINT
ADR	: PAINT
RID	: PAINT
IMDG	: PAINT
IATA	: Paint

#### 14.3 Transport hazard class(es)

Class	Subsidiary risks
ADG	: 3
ADN	: 3
ADR	: 3
RID	: 3
IMDG	: 3
IATA	: 3

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### 14.4 Packing group

**ADG**

Packing group : III

**ADN**

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**ADR**

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

**RID**

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

**IMDG**

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

**IATA (Cargo)**

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

**IATA (Passenger)**

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### 14.5 Environmental hazards

**ADG**

Environmentally hazardous : yes

**ADN**

Environmentally hazardous : yes

**ADR**

Environmentally hazardous : yes

**RID**

Environmentally hazardous : yes

**IMDG**

Marine pollutant : yes

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### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

If you intend to use this product as tattoo ink, please contact your vendor.

dibutylbis(dodecylthio)stannane  
(Number on list 20)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

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### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

This Product is considered compliant to AIIC (Australian Inventory of Industrial Chemicals).

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## SECTION 16: Other information

### Full text of H-Statements

H225 : Highly flammable liquid and vapor.  
H226 : Flammable liquid and vapor.  
H302 : Harmful if swallowed.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H319 : Causes serious eye irritation.  
H336 : May cause drowsiness or dizziness.  
H341 : Suspected of causing genetic defects.  
H360 : May damage fertility or the unborn child.  
H361f : Suspected of damaging fertility.  
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.  
EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Muta. : Germ cell mutagenicity  
Repr. : Reproductive toxicity  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2019/1831/EU : Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values

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DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2019/1831/EU / TWA	:	Limit Value - eight hours
2019/1831/EU / STEL	:	Short term exposure limit
DE TRGS 900 / AGW	:	Time Weighted Average

ADG – Australian Dangerous Goods; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL

- Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Flam. Liq. 3	H226
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 3	H412

#### Classification procedure:

Based on product data or assessment
Based on product data or assessment
Calculation method
Calculation method
Calculation method

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