

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

**VOSSCHEMIE**

## YACHTCARE PROP PROTECTOR SPRAY

Version	Revision Date:	Date of last issue: -
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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name : YACHTCARE PROP PROTECTOR SPRAY  
Product code : 160.282

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

Use of the Sub-  
stance/Mixture : Paints  
Recommended restrictions : Industrial use, professional use, public use  
on 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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Aerosols, Category 1

H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

Specific target organ toxicity - single exposure, Category 3, Central nervous system

H336: May cause drowsiness or dizziness.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.

Supplemental Hazard Statements : Buildup of explosive mixtures possible without sufficient ventilation.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

##### Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

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

##### Response:

P312 Call a POISON CENTER/ doctor if you feel unwell.

##### Storage:

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F.

##### Disposal:

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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  
2-methoxy-1-methylethyl acetate

### 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 : aerosol  
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	>= 10 - < 25
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 2,5 - < 5
propylidynetrimethanol	77-99-6 201-074-9 01-2119486799-10	Repr. 2; H361fd	>= 0,1 - < 1
Substances with a workplace exposure limit :			
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas 1; H220 Press. Gas Compr. Gas; H280	>= 25 - < 50

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Silicon dioxide	7631-86-9 231-545-4 01-2119379499-16		$\geq 1 - < 10$
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For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : First aider needs to protect himself.  
Remove from exposure, lie down.  
If unconscious, place in recovery position and seek medical advice.  
Take off contaminated clothing and shoes immediately.  
Symptoms of poisoning may appear several hours later.
- If inhaled : Move to fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : Swallowing is not regarded as a possible method for exposure.  
If symptoms persist, call a physician.

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

- Risks : May cause drowsiness or dizziness.

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

- Treatment : Treat symptomatically.

### 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 : Vapors may form explosive mixtures with air.  
Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
- Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : Use personal protective equipment. Wear suitable respiratory protection equipment.
- Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
In the event of fire and/or explosion do not breathe fumes.  
Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.

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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.  
Remove all sources of ignition.  
Ensure adequate ventilation.  
Avoid inhalation of vapor or mist.  
Avoid contact with skin, eyes and clothing.

### 6.2 Environmental precautions

- Environmental precautions : Should not be released into the environment.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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

- Methods for cleaning up : Ventilate the area.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Local/Total ventilation : Ensure adequate ventilation.
- Advice on safe handling : Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C / 122 °F. Also after use, do not open with force or burn.  
Provide sufficient air exchange and/or exhaust in work rooms.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight.
- Hygiene measures : Do not inhale aerosol.

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

- Requirements for storage areas and containers : Please observe the storage instructions for aerosols! Keep away from direct sunlight. Keep away from heat and sources of ignition.
- Further information on storage conditions : Storage must be in accordance with the BetrSichV (Germany).
- Advice on common storage : Keep away from food and drink.
- Storage class (TRGS 510) : 2B

### 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
dimethyl ether	115-10-6	TWA	1.000 ppm 1.920 mg/m <sup>3</sup>	2000/39/EC
		Further information: Indicative		
		AGW	1.000 ppm 1.900 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit category: 8;(II)		
		MAK	1.000 ppm 1.900 mg/m <sup>3</sup>	DE DFG MAK
		Peak-limit category: 8; II		
		Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C		
Titanium dioxide	13463-67-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900

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		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		AGW (Alveolate fraction)	1,25 mg/m3 (Titanium dioxide)	DE TRGS 900
		Peak-limit category: 2;(II)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		BM (Alveolar dust fraction)	0,5 mg/m3	DE TRGS 527
		MAK (measured as the alveolate fraction)	0,3 mg/m3	DE DFG MAK
		Peak-limit category: 8; II		
		Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m3	2019/1831/E U
		Further information: Indicative		
		TWA	50 ppm 241 mg/m3	2019/1831/E U
		Further information: Indicative		
		AGW	62 ppm 300 mg/m3	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		
		MAK	100 ppm 480 mg/m3	DE DFG MAK
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		TWA	50 ppm 275 mg/m3	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		AGW	50 ppm 270 mg/m3	DE TRGS 900
		Peak-limit category: 1;(I)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
		MAK	50 ppm 270 mg/m3	DE DFG MAK
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		

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Silicon dioxide	7631-86-9	TWA (Respirable dust)	0,1 mg/m3	2004/37/EC
Further information: Carcinogens or mutagens				
		AGW (Inhalable fraction)	4 mg/m3 (Silica)	DE TRGS 900
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				

### 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/m3
	Workers	Inhalation	Acute systemic effects	600 mg/m3
	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/m3
	Consumers	Inhalation	Acute systemic effects	300 mg/m3
	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
calcium carbonate	Consumers	Oral	Long-term systemic effects	6,1 mg/kg bw/day
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
propylidynetrimethanol	Workers	Inhalation	Long-term systemic effects	3,3 mg/m3
	Workers	Skin contact	Long-term systemic effects	0,94 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	0,34 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
calcium carbonate	Soil	0,09 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	100 mg/l
	Soil	0,09 mg/kg dry weight (d.w.)
2-methoxy-1-methylethyl acetate	Sewage treatment plant (STP)	100 mg/l
	Fresh water	0,635 mg/l
	Sea water	0,064 mg/l
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
	Sea sediment	0,329 mg/kg dry weight (d.w.)
	Soil	0,29 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Tightly fitting safety goggles  
Safety glasses with side-shields conforming to EN166

Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

#### Hand protection

Material : butyl-rubber  
Break through time : 15 min  
Glove thickness : 0,7 mm  
Guideline : DIN EN 374

Remarks : 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. The exact break through time can be obtained from the protective glove producer and this has to be observed. 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 : No personal respiratory protective equipment normally required.  
In case of inadequate ventilation wear respiratory protection.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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Filter type : Filter type A-P

Protective measures : Use only with adequate ventilation.  
When using do not eat, drink or smoke.  
Avoid contact with skin, eyes and clothing.  
Do not breathe vapors or spray mist.

### Environmental exposure controls

Soil : Avoid subsoil penetration.  
Water : Do not flush into surface water or sanitary sewer system.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : aerosol

Color : white

Melting point/freezing point : not determined

Initial boiling point and boiling range : -24,9 °C

Flammability : Extremely flammable aerosol.

Upper explosion limit / Upper flammability limit : 18,6 %(V)

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

Flash point : -42 °C

Autoignition temperature : 235 °C

pH : not determined substance/mixture is non-polar/aprotic

Viscosity  
Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

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Solubility(ies)  
Water solubility : immiscible

Vapor pressure : 3.400 hPa (20 °C)

Density : ca. 0,8 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

Explosives : Not explosive  
In use, may form flammable/explosive vapour-air mixture.

Self-ignition : not auto-flammable

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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 : Vapors may form explosive mixture with air.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.  
Strong sunlight for prolonged periods.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

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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 due to lack of data.

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### **Components:**

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

- Acute oral toxicity : LD50 (Rat): 10.760 mg/kg  
Method: OECD Test Guideline 423
- Acute inhalation toxicity : LC50 (Rat, male and female): > 23,4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 14.112 mg/kg  
Method: OECD Test Guideline 402

#### **2-methoxy-1-methylethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 6.190 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg  
Method: OECD Test Guideline 402

#### **propylidynetrimehanol:**

- Acute oral toxicity : LD50 Oral (Rat): 14.700 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 0,85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: No mortality observed at this dose.
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 10.000 mg/kg

#### **Silicon dioxide:**

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 5,01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 436
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

#### **Skin corrosion/irritation**

Not classified due to lack of data.

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### Components:

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

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation  
  
Result : Repeated exposure may cause skin dryness or cracking.

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

Not classified due to lack of data.

### Components:

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

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

#### **Respiratory or skin sensitization**

##### **Skin sensitization**

Not classified due to lack of data.

##### **Respiratory sensitization**

Not classified due to lack of data.

### Components:

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

Test Type : Maximization Test  
Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Did not cause sensitization on laboratory animals.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

### Components:

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

Genotoxicity in vitro : Test Type: reverse mutation assay  
Test system: Bacteria  
Method: OECD Test Guideline 471  
Result: negative  
  
Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse (male and female)  
Method: OECD Test Guideline 474  
Result: negative  
  
Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

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### **Carcinogenicity**

Not classified due to lack of data.

### **Reproductive toxicity**

Not classified due to lack of data.

### **Components:**

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

Effects on fertility : Species: Rat, male and female  
Dose: 2000 parts per million  
Duration of Single Treatment: > 90 Days  
Method: OECD Test Guideline 416  
Result: No teratogenic effects.

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

#### **propylidynetrimethanol:**

Reproductive toxicity - Assessment : Suspected of damaging fertility. Suspected of damaging the unborn child.

### **STOT-single exposure**

May cause drowsiness or dizziness.

### **Components:**

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

Assessment : May cause drowsiness or dizziness.

#### **2-methoxy-1-methylethyl acetate:**

Routes of exposure : Oral  
Target Organs : Central nervous system  
Assessment : May cause drowsiness or dizziness.

### **STOT-repeated exposure**

Not classified due to lack of data.

### **Components:**

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

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### **Aspiration toxicity**

Not classified due to lack of data.

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### Components:

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

No aspiration toxicity classification

### 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

#### **2-methoxy-1-methylethyl acetate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 130 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l

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	Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	: NOEC: 47,5 mg/l Exposure time: 14 d Species: <i>Oryzias latipes</i> (Orange-red killifish) Method: OECD Test Guideline 204
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: $\geq$ 100 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea) Method: OECD Test Guideline 211
<b>propylidynetrimethanol:</b>	
Toxicity to fish	: LC50 (Fish): $>$ 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 ( <i>Daphnia magna</i> (Water flea)): 13.000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EC50 ( <i>Pseudokirchneriella subcapitata</i> (green algae)): $>$ 1.000 mg/l Exposure time: 72 h
Toxicity to microorganisms	: EC50 (Bacteria): $>$ 1.000 mg/l Exposure time: 3 h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: $>$ 1.000 mg/l Exposure time: 21 d Species: <i>Daphnia magna</i> (Water flea)
<b>Silicon dioxide:</b>	
Toxicity to fish	: LC0 ( <i>Brachydanio rerio</i> (zebrafish)): $>$ 10.000 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: LC50 ( <i>Daphnia magna</i> (Water flea)): $>$ 1.000 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

### 12.2 Persistence and degradability

#### Components:

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

Biodegradability	: Result: Readily biodegradable. Biodegradation: 83 % Exposure time: 28 d Method: OECD Test Guideline 301D
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### **2-methoxy-1-methylethyl acetate:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

### **propylidyntrimethanol:**

Biodegradability : Result: Not readily biodegradable.

## 12.3 Bioaccumulative potential

### Components:

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

Bioaccumulation : Bioconcentration factor (BCF): 15,3  
Remarks: Calculation  
No bioaccumulation is to be expected (log Pow <= 4).

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

#### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
pH: 6,8  
Method: OECD Test Guideline 117

#### **propylidyntrimethanol:**

Partition coefficient: n-octanol/water : log Pow: -0,47 (26 °C)

#### **dimethyl ether:**

Partition coefficient: n-octanol/water : log Pow: 0,07 (25 °C)

#### **Silicon dioxide:**

Partition coefficient: n-octanol/water : Remarks: Not applicable

## 12.4 Mobility in soil

No data available

## 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.

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### 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 : According to the European Waste Catalog, Waste Codes are not product specific, but application specific.  
Dispose of in conjunction with appropriate waste disposal authorities and in accordance with disposal regulations.

Contaminated packaging : Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:  
15 01 10, packaging containing residues of or contaminated by hazardous substances

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 1950  
ADR : UN 1950  
RID : UN 1950  
IMDG : UN 1950  
IATA : UN 1950

### 14.2 UN proper shipping name

ADN : AEROSOLS  
ADR : AEROSOLS  
RID : AEROSOLS  
IMDG : AEROSOLS

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**IATA** : Aerosols, flammable

### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
<b>ADN</b>	: 2	2.1
<b>ADR</b>	: 2	2.1
<b>RID</b>	: 2	2.1
<b>IMDG</b>	: 2.1	
<b>IATA</b>	: 2.1	

### 14.4 Packing group

**ADN**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1

**ADR**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Labels : 2.1  
Tunnel restriction code : (D)

**RID**  
Packing group : Not assigned by regulation  
Classification Code : 5F  
Hazard Identification Number : 23  
Labels : 2.1

**IMDG**  
Packing group : Not assigned by regulation  
Labels : 2.1  
EmS Code : F-D, S-U

**IATA (Cargo)**  
Packing instruction (cargo aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

**IATA (Passenger)**  
Packing instruction (passenger aircraft) : 203  
Packing instruction (LQ) : Y203  
Packing group : Not assigned by regulation  
Labels : Flammable Gas

### 14.5 Environmental hazards

**ADN**  
Environmentally hazardous : no

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### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

### 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.

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

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

Regulation (EU) No 2024/590 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. P3a FLAMMABLE AEROSOLS

Water hazard class (Germany) : WGK 1 slightly water endangering  
Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity

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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.

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### SECTION 16: Other information

#### Full text of H-Statements

H220	: Extremely flammable gas.
H226	: Flammable liquid and vapor.
H280	: Contains gas under pressure; may explode if heated.
H336	: May cause drowsiness or dizziness.
H361fd	: Suspected of damaging fertility. Suspected of damaging the unborn child.
EUH066	: Repeated exposure may cause skin dryness or cracking.

#### Full text of other abbreviations

Flam. Gas	: Flammable gases
Flam. Liq.	: Flammable liquids
Press. Gas	: Gases under pressure
Repr.	: Reproductive toxicity
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
2004/37/EC	: Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens, mutagens or reprotoxic substances at work - Annex III
2019/1831/EU	: Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
DE DFG MAK	: Germany. MAK BAT Annex IIa
DE TRGS 527	: Germany. TRGS 527 - Activities with nanomaterials
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2004/37/EC / TWA	: Long term exposure limit
2019/1831/EU / TWA	: Limit Value - eight hours
2019/1831/EU / STEL	: Short term exposure limit
DE DFG MAK / MAK	: MAK value
DE TRGS 527 / BM	: Assessment scale
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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 -

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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:

Aerosol 1	H222, H229
STOT SE 3	H336

#### Classification procedure:

Based on product data or assessment
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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