

# SAFETY DATA SHEET

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

## Carsystem 1K Easy Filler schwarz

Version	Revision Date:	Date of last issue: 25.06.2024
1.3 DE / EN	10.10.2024	Date of first issue: 09.08.2022

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

#### 1.1 Product identifier

Trade name : Carsystem 1K Easy Filler schwarz  
Product code : 151.523

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

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

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

Company : JASA AG  
Müslistrasse 43  
8957 Spreitenbach  
Schweiz  
info@jasa-ag.ch, www.jasa-ag.ch  
Telephone : +41 (0)44 431 60 70  
Telefax : +41 (0)44 432 63 17  
**Responsible Department** : Productmanagement, Tel: +41 (0)44 431 60 70, sds@jasa-ag.ch

#### 1.4 Emergency telephone

☎ : Tox Info Suisse (STIZ), Tel: 145

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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.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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

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

Hazard pictograms	:	 
Signal Word	:	Danger
Hazard Statements	:	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. 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.  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. <b>Prevention:</b> 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. P260 Do not breathe spray.

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### Storage:

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

### Disposal:

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:

acetone  
n-butyl acetate  
2-methoxy-1-methylethyl acetate  
Hydrocarbons, C10, aromatics, <1% naphthalene

### Additional Labeling

EUH208 Contains 4-morpholinecarbaldehyde. May produce an allergic reaction.

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

### 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)
acetone	67-64-1 200-662-2 606-001-00-8 01-2119471330-49	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous	>= 25 - < 50

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		system) EUH066	
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	>= 12,5 - < 20
titanium dioxide; [in powder form containing 1 % or more of parti- cles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 2,5 - < 5
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
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0,25 - < 2,5
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 2,5
Hydrocarbons, C10, aromatics, <1% naphthalene	Not Assigned 918-811-1 01-2119463583-34	STOT SE 3; H336 (Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 0,25 - < 2,5
4-morpholinecarbaldehyde	4394-85-8 224-518-3 01-2119987993-12	Skin Sens. 1B; H317	>= 0,1 - <= 0,5

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.

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- Take off contaminated clothing and shoes immediately.
- 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 : 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

### 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.

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Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Use water spray to cool unopened containers.  
In the event of fire and/or explosion do not breathe fumes.

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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

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.  
  
Do not smoke.

Hygiene measures : Do not inhale aerosol.

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

Requirements for storage areas and containers : Please observe the storage instructions for aerosols! Keep containers tightly closed in a cool, well-ventilated place. Solvent vapors are heavier than air and may spread along floors. 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
acetone	67-64-1	TWA	500 ppm 1.210 mg/m <sup>3</sup>	2000/39/EC
		Further information: Indicative		
		AGW	500 ppm 1.200 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		
		MAK	500 ppm 1.200 mg/m <sup>3</sup>	DE DFG MAK
		Further information: According to currently available information damage to the embryo or foetus cannot be excluded after exposure to concentrations at the level of the MAK and BAT values		
n-butyl acetate	123-86-4	STEL	150 ppm 723 mg/m <sup>3</sup>	2019/1831/EU
		Further information: Indicative		
		TWA	50 ppm 241 mg/m <sup>3</sup>	2019/1831/EU
		Further information: Indicative		
		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		
		MAK	100 ppm	DE DFG MAK

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			480 mg/m <sup>3</sup>	
	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
propane	74-98-6	AGW	1.000 ppm 1.800 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 4;(II)			
		MAK	1.000 ppm 1.800 mg/m <sup>3</sup>	DE DFG MAK
	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			
butane (containing < 0,1 % butadiene (203-450-8))	106-97-8	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 4;(II)			
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (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			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup> (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/m <sup>3</sup>	DE TRGS 527
		MAK (measured as the alveolate fraction)	0,3 mg/m <sup>3</sup>	DE DFG MAK
	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			
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 275 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	50 ppm 270 mg/m <sup>3</sup>	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			

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		MAK	50 ppm 270 mg/m <sup>3</sup>	DE DFG MAK
Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed				
isobutane (< 0,1% 1,3-butadiene (203-450-8))	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit category: 4;(II)				
ethanol	64-17-5	AGW	200 ppm 380 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit category: 4;(II)				
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
		MAK	200 ppm 380 mg/m <sup>3</sup>	DE DFG MAK
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, Germ cell mutagens or suspected substances (according to the definition of Category 3 A and 3B), the potency of which is considered to be so low that, provided the MAK and BAT values are observed, their contribution to genetic risk for man is considered to be very slight				

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 50 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		Acetone: 50 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT

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

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
acetone	Workers	Inhalation	Long-term systemic effects	1210 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local ef- fects	2420 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m <sup>3</sup>
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic ef- fects	600 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic	11 mg/kg

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			effects, Acute systemic effects	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
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
4-morpholinecarbaldehyde	Workers	Inhalation	Long-term systemic effects	98 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	1,7 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	14 mg/kg
	Workers	Skin contact	Long-term local effects	0,29 mg/cm <sup>2</sup>
	Consumers	Inhalation	Long-term systemic effects	29 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	0,84 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	8 mg/kg
	Consumers	Skin contact	Long-term local effects	0,176 mg/cm <sup>2</sup>
	Consumers	Oral	Long-term systemic effects	8 mg/kg

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

Substance name	Environmental Compartment	Value
acetone	Fresh water	10,6 mg/l
	Sea water	1,06 mg/l
	Sewage treatment plant (STP)	100 mg/l
	Fresh water sediment	30,4 mg/kg dry weight (d.w.)
	Sea sediment	3,04 mg/kg dry weight (d.w.)

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	Soil	29,5 mg/kg dry weight (d.w.)
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.)
2-methoxy-1-methylethyl acetate	Fresh water	0,635 mg/l
	Sea water	0,064 mg/l
	Sewage treatment plant (STP)	100 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.)
trizinc bis(orthophosphate)	Fresh water	0,014 mg/l
	Sea water	0,0072 mg/l
	Fresh water sediment	0,1469 mg/kg dry weight (d.w.)
	Sea sediment	0,162 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	0,1 mg/l
	Soil	83,1 mg/kg dry weight (d.w.)
ethanol	Fresh water	0,96 mg/l
	Sea water	0,79 mg/l
	Sewage treatment plant (STP)	580 mg/l
	Fresh water sediment	3,6 mg/kg dry weight (d.w.)
	Sea sediment	2,9 mg/kg dry weight (d.w.)
	Soil	0,63 mg/kg dry weight (d.w.)
	Oral (Secondary Poisoning)	0,38 mg/kg food
4-morpholinecarbaldehyde	Fresh water	0,5 mg/l
	Sea water	0,05 mg/l
	Sewage treatment plant (STP)	2000 mg/l
	Fresh water sediment	2,69 mg/kg
	Sea sediment	0,269 mg/kg
	Soil	0,244 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

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

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### Hand protection

Material	: butyl-rubber
Break through time	: > 480 min
Glove thickness	: >= 0,4 mm
Directive	: DIN EN 374
Protective index	: Class 6

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
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Skin and body protection	: Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres. Long sleeved clothing
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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
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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.
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### 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	: black
Odor	: characteristic
Melting point/freezing point	: not determined
Initial boiling point and boiling range	: Not applicable

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Upper explosion limit / Upper flammability limit : 13 %(V)

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

Flash point : Not applicable

Autoignition temperature : 365 °C

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

Viscosity  
Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Solubility(ies)  
Water solubility : immiscible

Partition coefficient: n-octanol/water : not determined

Vapor pressure : 8.300 hPa (20 °C)  
16.500 hPa (50 °C)

Density : 0,9 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.

##### Components:

##### acetone:

Acute oral toxicity : LD50 Oral (Rat): 5.800 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 76 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor

Acute dermal toxicity : LD50 Dermal (Rabbit): > 7.400 mg/kg

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

Acute dermal toxicity : LD50 Dermal (Rabbit): 14.112 mg/kg

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Method: OECD Test Guideline 402

### **titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LD50 (Rat): > 6,82 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

### **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

### **trizinc bis(orthophosphate):**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

### **ethanol:**

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 117 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403

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

### **Hydrocarbons, C10, aromatics, <1% naphthalene:**

Acute oral toxicity : LD50 Oral (Rat, female): ca. 3.492 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 6,193 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 3.160 mg/kg  
Method: OECD Test Guideline 402

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### 4-morpholinecarbaldehyde:

- Acute oral toxicity : LD50 Oral (Rat): > 7.360 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat):  $\geq$  5,319 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 18.400 mg/kg  
Method: OECD Test Guideline 402

### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Product:

Result : Repeated exposure may cause skin dryness or cracking.

#### Components:

**titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10  $\mu$ m]:**

Remarks : No skin irritation

### Hydrocarbons, C10, aromatics, <1% naphthalene:

Result : Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

**titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq$  10  $\mu$ m]:**

Remarks : Dust contact with the eyes can lead to mechanical irritation.

### ethanol:

Result : Mild eye irritation

### Respiratory or skin sensitization

#### Skin sensitization

Not classified due to lack of data.

#### Respiratory sensitization

Not classified due to lack of data.

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### Components:

**titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ ]:**

Remarks : No known sensitising effect.

### **4-morpholinecarbaldehyde:**

Species : Mouse  
Method : OECD Test Guideline 429  
Result : The product is a skin sensitizer, sub-category 1B.

### **Germ cell mutagenicity**

Not classified due to lack of data.

### **Carcinogenicity**

Not classified due to lack of data.

### **Reproductive toxicity**

Not classified due to lack of data.

### **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.

#### **Hydrocarbons, C10, aromatics, <1% naphthalene:**

Assessment : May cause drowsiness or dizziness.

### **STOT-repeated exposure**

Not classified due to lack of data.

### **Aspiration toxicity**

Not classified due to lack of data.

### Components:

#### **Hydrocarbons, C10, aromatics, <1% naphthalene:**

May be fatal if swallowed and enters airways.

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### 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:

##### **acetone:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 5.540 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 8.800 mg/l  
End point: mortality  
Exposure time: 48 h

Toxicity to algae/aquatic plants : NOEC (algae): 430 mg/l  
Exposure time: 96 h

Toxicity to microorganisms : EC10 (Bacteria): 1.000 mg/l  
Exposure time: 0,5 h  
Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 2.212 mg/l  
Exposure time: 28 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

##### **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)

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Method: OECD Test Guideline 211

### **titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l  
Exposure time: 48 h

### **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  
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: Oryzias latipes (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: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### **trizinc bis(orthophosphate):**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,169 mg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 0,044 mg/l  
Exposure time: 72 d  
Species: Oncorhynchus mykiss (rainbow trout)

M-Factor (Chronic aquatic toxicity) : 1

### **ethanol:**

Toxicity to fish : LC50 (Fish): 11.200 mg/l

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Exposure time: 96 h

Remarks: This product has no known ecotoxicological effects.

Toxicity to fish (Chronic toxicity) : NOEC: 250 mg/l  
Species: Fish

### Hydrocarbons, C10, aromatics, <1% naphthalene:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 3 - 10 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR: 0,441 mg/l  
Exposure time: 28 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 0,771 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

### 4-morpholinecarbaldehyde:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 500 mg/l  
Exposure time: 96 h

LC50 (Leuciscus idus (Golden orfe)): > 500 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC0 (Daphnia magna (Water flea)): 500 mg/l  
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 500 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC10 (Desmodesmus subspicatus (green algae)): 17.040 mg/l  
Exposure time: 72 h

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EC50 (Desmodesmus subspicatus (green algae)): 23.880 mg/l  
Exposure time: 72 h

### 12.2 Persistence and degradability

#### Components:

##### **acetone:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 90,9 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

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

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

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

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

##### **ethanol:**

Biodegradability : Result: Readily biodegradable.

##### **4-morpholinecarbaldehyde:**

Biodegradability : Biodegradation: 100 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301A

### 12.3 Bioaccumulative potential

#### Components:

##### **acetone:**

Bioaccumulation : Bioconcentration factor (BCF): 3  
Remarks: Calculation

Partition coefficient: n-octanol/water : log Pow: -0,24 (20 °C)

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

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

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

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

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

**trizinc bis(orthophosphate):**

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

**ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0,35 (20 °C)

**Hydrocarbons, C10, aromatics, <1% naphthalene:**

Partition coefficient: n-octanol/water : Remarks: No data available

**4-morpholinecarbaldehyde:**

Partition coefficient: n-octanol/water : log Pow: -1,2 (23 °C)

### 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.

### 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.

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### 12.7 Other adverse effects

#### Product:

Additional ecological information : No data available

#### **Global warming potential**

Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) of the United Nations Framework Convention on Climate Change (UNFCCC)

#### Components:

##### **propane:**

20-year global warming potential: 0,072  
100-year global warming potential: 0,02  
500-year global warming potential: 0,006  
Atmospheric lifetime: 0,036 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

##### **butane (containing < 0,1 % butadiene (203-450-8)):**

20-year global warming potential: 0,022  
100-year global warming potential: 0,006  
500-year global warming potential: 0,002  
Atmospheric lifetime: 0,019 yr  
Radiative efficiency: 0 Wm<sup>2</sup>ppb  
Further information: Miscellaneous compounds

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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

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**IMDG** : UN 1950

**IATA** : UN 1950

### 14.2 UN proper shipping name

**ADN** : AEROSOLS

**ADR** : AEROSOLS

**RID** : AEROSOLS

**IMDG** : AEROSOLS

**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)**

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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

#### 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 (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

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

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This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

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)

Volatile organic compounds : Directive 2004/42/EC  
Volatile organic compounds (VOC) content: < 840 g/l  
VOC content for the product in a ready to use condition.

### 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.

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## SECTION 16: Other information

### Full text of H-Statements

H225	: Highly flammable liquid and vapor.
H226	: Flammable liquid and vapor.
H304	: May be fatal if swallowed and enters airways.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer if inhaled.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Carc.	: Carcinogenicity

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Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Skin Sens.	: Skin sensitization
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
2019/1831/EU	: Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
DE DFG BAT	: Germany. MAK BAT Annex XIII
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.
TRGS 903	: c - Biological limit values
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short 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 - 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; TECl - 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

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### Further information

#### Classification of the mixture:

Aerosol 1	H222, H229
Eye Irrit. 2	H319
STOT SE 3	H336
Aquatic Chronic 3	H412

#### Classification procedure:

Calculation method
Calculation method
Calculation method
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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