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

1.1	Product identifier		
	Trade name	:	Carsystem S.21 1K Primer schwarz
	Product code	:	CS158109
1.2	Relevant identified uses of the	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Primer
	Recommended restrictions on use	:	Industrial use, professional use
1.3	Details of the supplier of the	sa	fety data sheet
	Company	:	Vosschemie GmbH Esinger Steinweg 50 25436 Uetersen Germany
			info@vosschemie.de
	Telephone Telefax	-	04122 717 0 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)				
Aerosols, Category 1	H222: Extremely flammable aerosol. H229: Pressurised container: May burst if heated.			
Serious eye damage, Category 1	H318: Causes serious eye damage.			
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.			
Specific target organ toxicity - single ex- posure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.			

#### 2.2 Label elements

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

Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	<ul> <li>H222 Extremely flammable aerosol.</li> <li>H229 Pressurised container: May burst if heated.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H318 Causes serious eye damage.</li> <li>H336 May cause drowsiness or dizziness.</li> </ul>
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
		Buildup of explosive mixtures possible without sufficient ventilation.
Precautionary Statements	:	<ul><li>P101 If medical advice is needed, have product container or label at hand.</li><li>P102 Keep out of reach of children.</li></ul>
		Prevention:
		<ul> <li>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P211 Do not spray on an open flame or other ignition source.</li> <li>P251 Do not pierce or burn, even after use.</li> <li>P271 Use only outdoors or in a well-ventilated area.</li> <li>P280 Wear protective gloves/ eye protection/ face protection.</li> </ul>
		Response:

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		with water for seve sent and easy to o POISON CENTER	338 + P310 IF IN EYES: Rinse cautiously eral minutes. Remove contact lenses, if pre- do. Continue rinsing. Immediately call a R/ doctor. skin irritation or rash occurs: Get medical
		<b>Storage:</b> P410 + P412 Pi peratures exceedi	rotect from sunlight. Do not expose to tem- ng 50 °C/ 122 °F.
			contents/ container to an approved facility in ocal, regional, national and international regu-
	dous ingredients whi	ch must be listed on t	he label:
reacti	-1-ol n-1-ol	\-(epichlorhydrin); epo>	ky resin (number average molecular

#### 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	>= 10 - < 25

		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	>= 10 - <
butan-1-ol	71-36-3 200-751-6 603-004-00-6 01-2119484630-38	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Acute toxicity esti- mate	>= 5 - < ^
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7	Acute oral toxicity: 500 mg/kg Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous	>= 1 - < 2
propan-1-ol	01-2119475791-29 71-23-8 200-746-9 603-003-00-0 01-2119486761-29	system) Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system)	>= 1 - < 2
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight 700<=1200)	25068-38-6 500-033-5	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317  specific concentration limit Eye Irrit. 2; H319 >= 5 % Skin Irrit. 2; H315 >= 5 %	>=1-<2
Substances with a workplace expo			
dimethyl ether	115-10-6 204-065-8 603-019-00-8	Flam. Gas 1A; H220 Press. Gas Compr. Gas; H280	>= 25 - <

For explanation of abbreviations see section 16.

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#### **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. 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, remove contact lens and rinse imme-In case of eye contact : diately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention immediately. 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 an allergic skin reaction. Causes serious eye damage. 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

:	Treat symptomatically.
	:

#### **SECTION 5: Firefighting measures**

5.1 Extinguishing media		
Suitable extinguishing media	:	Carbon dioxide (CO2) 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	:	Vapors may form explosive mixtures with air.
fighting		Build-up of dangerous/toxic fumes possible in cases of
		fire/high temperature.

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	Hazaro ucts	dous combustion prod-	:	Carbon monoxide bons (smoke).	e, carbon dioxide and unburned hydrocar-
5.3	Specia	<b>for firefighters</b> al protective equipment -fighters	:	Use personal pro	tective equipment. Wear suitable respiratory
		r information	:	Use extinguishing cumstances and Fire residues and be disposed of in Use water spray t	measures that are appropriate to local cir- the surrounding environment. contaminated fire extinguishing water must accordance with local regulations. o cool unopened containers. e and/or explosion do not breathe fumes.

### **SECTION 6:** Accidental release measures

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

Personal precautions	<ul> <li>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.</li> </ul>
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 cont	ainment and cleaning up
Methods for cleaning up	: Ventilate the area. Use neutralizing agents.

#### 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

Local/Total ventilation	: Ensure adequate ventilation.
Advice on safe handling	<ul> <li>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.</li> <li>Provide sufficient air exchange and/or exhaust in work rooms.</li> </ul>

Keep in suitable, closed containers for disposal.

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	Advice on protection against fire and explosion		:	Keep away from	naked flame or any incandescent material. open flames, hot surfaces and sources of ay from direct sunlight.
	Hygier	ne measures	:	Do not inhale aer	osol.
				Do not get in eyes	S.
7.2	Conditi	ons for safe storage,	incl	uding any incomp	atibilities
		ements for storage and containers	:	containers tightly	he storage instructions for aerosols! Keep closed in a cool, well-ventilated place. Keep sunlight. Keep away from heat and sources
		r information on stor- nditions	:	Storage must be	in accordance with the BetrSichV (Germany).
	Advice	e on common storage	:	Keep away from	ood and drink.
	Storag	e class (TRGS 510)	:	2B	
7.3	-	<b>c end use(s)</b> ic 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/m3	2000/39/EC		
	Further inform	nation: Indicative	·			
		AGW	1.000 ppm 1.900 mg/m3	DE TRGS 900		
	Peak-limit cat	egory: 8;(II)	·			
acetone	67-64-1	TWA	500 ppm 1.210 mg/m3	2000/39/EC		
	Further information: Indicative					
		AGW	500 ppm 1.200 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					
n-butyl acetate	123-86-4	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					

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	tolerance valu	ues, there is no r	isk of harming the unborn chil	d		
		STEL	150 ppm 723 mg/m3	2019/1831/E U		
	Further inform	nation: Indicative	;	L.		
		TWA	50 ppm 241 mg/m3	2019/1831/E U		
	Further inform	nation: Indicative	)			
butan-1-ol	71-36-3	AGW	100 ppm 310 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					
2-methoxy-1- methylethyl ace- tate	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					

#### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
acetone	67-64-1	Acetone: 80 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
butan-1-ol	71-36-3	1-butanol: 2 mg/g Creatinine (Urine)	Before next shift	TRGS 903
		1-butanol: 10 mg/g Creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903

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/m3
	Workers	Inhalation	Long-term local ef- fects	2420 mg/m3
	Workers	Skin contact	Long-term systemic effects	186 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg bw/day

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n-butyl acetate	Workers	Inhalation	Long-term systemic effects, Long-term local effects	300 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	600 mg/m3
	Workers	Dermal	Long-term systemic effects, Acute sys- temic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	35,7 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	300 mg/m3
	Consumers	Dermal	Long-term systemic effects, Acute sys- temic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects, Acute sys- temic effects	2 mg/kg bw/day
butan-1-ol	Workers	Inhalation	Long-term systemic effects	310 mg/m3
	Consumers	Inhalation	Long-term systemic effects	55,357 mg/m
	Consumers	Dermal		3,125 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
propan-1-ol	Workers	Inhalation	Long-term systemic effects	268 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	1723 mg/m3
	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Consumers	Inhalation	Long-term systemic effects	80 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	1036 mg/m3
	Consumers	Skin contact	Long-term systemic effects	81 mg/kg
	Consumers	Oral	Long-term systemic effects	61 mg/kg

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

 Substance name
 Environmental Compartment
 Value

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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.)
	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 d
		weight (d.w.)
	Sea sediment	0,098 mg/kg d
	Courses the star and algest (CTD)	weight (d.w.)
	Sewage treatment plant (STP)	35,6 mg/l
	Soil	0,09 mg/kg dry
butan-1-ol	Fresh water	weight (d.w.) 0,082 mg/l
butan-1-0		0,324 mg/kg d
	Fresh water sediment	weight (d.w.)
	Sea water	0,008 mg/l
	Sea sediment	0,032 mg/kg d
	Sea sediment	weight (d.w.)
	Sewage treatment plant (STP)	2476 mg/l
	Soil	0,017 mg/kg d
		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 d
		weight (d.w.)
	Soil	0,29 mg/kg dry
		weight (d.w.)
propan-1-ol	Fresh water	10 mg/l
	Sea water	1 mg/l
	Sewage treatment plant (STP)	96 mg/l
	Fresh water sediment	22,8 mg/kg
	Sea sediment	2,28 mg/kg 2,2 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection	:	Tightly fitting safety goggles Safety glasses with side-shields conforming to EN166
Hand protection Material Directive	:	Nitrile rubber DIN EN 374

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Material Break through time Glove thickness Directive	: butyl-rubber : < 15 min : 0,7 mm : DIN EN 374				
Remarks	its material but a from one produc can be obtained	a appropriate glove does not only depend on also on other quality features and is different er to the other. The exact break through time from the protective glove producer and this red. Preventive skin protection			
Skin and body protection		able protective clothing, e.g. made of cotton synthetic fibres. thing			
Respiratory protection	quired. In case of inade When workers a	piratory protective equipment normally re- quate ventilation wear respiratory protection. re facing concentrations above the exposure se appropriate certified respirators.			
Filter type	: Filter type A-P				
Protective measures	When using do r Avoid contact wi	lequate ventilation. not eat, drink or smoke. th skin, eyes and clothing. /apors or spray mist.			
Environmental exposure controls					
Soil Water	: Avoid subsoil pe : Do not flush into	netration. surface water or sanitary sewer system.			

### **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	:	-24,9 °C
Upper explosion limit / Upper flammability limit	:	18,6 %(V)
Lower explosion limit / Lower flammability limit	:	1,2 %(V)

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Fl	ash point	: -19 °C	
Au	utoignition temperature	: 235 °C	
рŀ	1	: not determined	substance/mixture is non-soluble (in water)
Vi	scosity Viscosity, dynamic	: not determined	
	Viscosity, kinematic	: not determined	
So	blubility(ies) Water solubility	: immiscible	
	artition coefficient: n- stanol/water	: not determined	
Va	apor pressure	: 3.400 hPa	
De	ensity	: 0,871 g/cm3 (2	0 °C)
	ner information plosives	: Not explosive In use, may for	m flammable/explosive vapor-air mixture.
Se	elf-ignition	: not auto-flamm	able

### **SECTION 10: Stability and reactivity**

10.1	<b>Reactivity</b> No decomposition if used as dire	ecte	ed.
10.2	<b>Chemical stability</b> No decomposition if stored and	app	blied as directed.
10.3	Possibility of hazardous react	tior	IS
	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

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#### **10.6 Hazardous decomposition products**

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

#### **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.					
:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method				
:	LD50 Oral (Rat): 5.800 mg/kg				
:	LC50 (Rat): ca. 76 mg/l				
	Exposure time: 4 h Test atmosphere: vapor				
:	LD50 Dermal (Rabbit): > 7.400 mg/kg				
:	LD50 (Rat): 10.760 mg/kg				
	Method: OECD Test Guideline 423				
:					
	Exposure time: 4 h Test atmosphere: vapor				
	Method: OECD Test Guideline 403				
	LD50 Dermal (Rabbit): 14.112 mg/kg				
•	Method: OECD Test Guideline 402				
:	Acute toxicity estimate: 500 mg/kg Method: Converted acute toxicity point estimate				
	Remarks: (*) Converted acute toxicity point estimate accord-				
	ing to Table 3.1.2 of Annex I.				
	:				

### Acute dermal toxicity : (Rabbit): 3.430 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

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Acute inhalation toxicity	: Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	: LD50 Dermal (Rabbit): > 5.000 mg/kg Method: OECD Test Guideline 402
propan-1-ol:	
Acute oral toxicity	: LD50 Oral (Rat): ca. 8.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): > 33,8 mg/l Exposure time: 4 h Test atmosphere: vapor Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 Dermal (Rabbit): 4.032 mg/kg Method: OECD Test Guideline 402
reaction product: bisphe weight 700<=1200):	enol-A-(epichlorhydrin); epoxy resin (number average molecular
Acute oral toxicity	: LD50 Oral (Rat): 15.000 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rabbit): 23.000 mg/kg
Skin corrosion/irritation Repeated exposure may c <u>Product:</u> Result	ause skin dryness or cracking.
Serious eye damage/eye Causes serious eye dama	irritation
Respiratory or skin sens	itization
<b>Skin sensitization</b> May cause an allergic skir	reaction.
Respiratory sensitization Not classified based on av	
Germ cell mutagenicity Not classified based on av	ailable information.
Carcinogenicity Not classified based on av	ailable information.
<b>Reproductive toxicity</b> Not classified based on av	ailable information.
STOT-single exposure	
May cause drowsiness or	dizziness.

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<u>Comp</u>	onents:		
n-but	yl acetate:		
Asses	sment	: May cause d	rowsiness or dizziness.
2-met	hoxy-1-methyletl	nyl acetate:	
Route	s of exposure	: Oral	
	t Organs	: Central nervo	
Asses	sment	: May cause d	rowsiness or dizziness.
STOT	-repeated expos	ure	
Not cla	assified based on	available information.	
Aspir	ation toxicity		
Not cla	assified based on	available information.	
1.2 Inforr	nation on other l	nazards	
Endo	crine disrupting	properties	
<u>Produ</u>	ict:		
Asses	sment	ered to have REACH Artic	ce/mixture does not contain components consid- endocrine disrupting properties according to le 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 6 or higher.

#### \_

### 12.1 Toxicity

### Components:

acetone:	
acerone	

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 (Chron- ic toxicity)	:	NOEC: 2.212 mg/l Exposure time: 28 d Species: Daphnia magna (Water flea)

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	Me	thod: OECD Te	st Guideline 211
<b>n-butyl acetate:</b> Toxicity to fish	Ex	oosure time: 96	nelas (fathead minnow)): 18 mg/l h st Guideline 203
Toxicity to daphnia and other aquatic invertebrates		50 (Daphnia ma posure time: 48	agna (Water flea)): 44 mg/l h
Toxicity to algae/aquatic plants		50 (Desmodesi oosure time: 72	nus subspicatus (green algae)): 647,7 mg/l h
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	Exj Sp		d magna (Water flea) st Guideline 211
2-methoxy-1-methylethyl acc	tate:		
Toxicity to fish	Ex  Te:	oosure time: 96 st Type: static te	
Toxicity to daphnia and other aquatic invertebrates	Ex <sub>l</sub> Te	oosure time: 48 st Type: static te	
Toxicity to algae/aquatic plants	1.0 Exj Te:	00 mg/l posure time: 96 st Type: static te	
Toxicity to fish (Chronic tox- icity)	Exj Sp		d atipes (Orange-red killifish) st Guideline 204
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	Exj Sp		
<b>propan-1-ol:</b> Toxicity to fish	En Exj	d point: mortalit	

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		y to daphnia and other c invertebrates	:	EC50 (Daphnia n End point: Immot Exposure time: 48 Method: DIN 384	3 h
	Toxicit <u></u> plants	y to algae/aquatic	:	EC50 (Pseudokir mg/l End point: Growth Exposure time: 4	
	Toxicit	y to microorganisms	:	IC50 (Bacteria): > Exposure time: 3 Method: OECD T	
		y to daphnia and other c invertebrates (Chron- ity)			
		on product: bispheno t 700<=1200):	I-A-	(epichlorhydrin);	epoxy resin (number average molecular
	•	y to fish	:	LC50 (Leuciscus Exposure time: 9	idus (Golden orfe)): 2 mg/l 6 h
		y to daphnia and other invertebrates	:	EC50 (Daphnia): Exposure time: 4	
	Toxicit <u>y</u> plants	y to algae/aquatic	:	EC50 (algae): 11 Exposure time: 7	
	Ecoto	kicology Assessment			
	Acute a	aquatic toxicity	:	This product has	no known ecotoxicological effects.
	Chroni	c aquatic toxicity	:	This product has	no known ecotoxicological effects.
12.2	2 Persis	tence and degradabil	ity		
	Compo	onents:			
	aceton Biodeg	<b>e:</b> radability	:	Result: Readily bi Biodegradation: Exposure time: 2 Method: OECD T	90,9 %
	n-buty	l acetate:			
	Biodeg	radability	:	Result: Readily bi Biodegradation: Exposure time: 28	83 %

**VOSSCHEMIE** 

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2-methoxy-1-methylethyl acetate:							
Biodegradability	: Result: Readily to Biodegradation: Exposure time: 2	90 %					
propan-1-ol:							
Biodegradability	: Biodegradation: Exposure time: 2 Method: OECD						
12.3 Bioaccumulative potential							
Components:							
acetone:							
Bioaccumulation	: Bioconcentratior Remarks: Calcul	n factor (BCF): 3 lation					
Partition coefficient: n- octanol/water	: log Pow: -0,24 (2	20 °C)					
n-butyl acetate:							
Partition coefficient: n- octanol/water	: log Pow: 2,3 (25 Method: OECD	°C) Test Guideline 117					
butan-1-ol:							
Partition coefficient: n- octanol/water	: log Pow: 1,0 (25	°C)					
2-methoxy-1-methylethyl a	cetate:						
Partition coefficient: n- octanol/water	: log Pow: 1,2 (20 pH: 6,8 Method: OECD <sup>-</sup>	°C) Test Guideline 117					
propan-1-ol: Bioaccumulation	: Bioconcentratior	n factor (BCF): 0,88					
Partition coefficient: n- octanol/water	: Pow: 1,6 (25 °C) log Pow: 0,2 (25 pH: 7						
dimethyl ether:							
Partition coefficient: n- octanol/water	: log Pow: 0,07 (2	5 °C)					

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### 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	<ul> <li>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.</li> </ul>
	levels of 0.1% of higher.

#### 12.7 Other adverse effects

#### Product:

Additional ecological infor-	:	No data available
mation		

#### **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

### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADG	:	UN 1950
ADN	:	UN 1950
ADR	:	UN 1950
RID	:	UN 1950

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IMDG	: UN 1950				
ΙΑΤΑ	: UN 1950				
14.2 UN proper shipping name					
ADG	: AEROSOLS				
ADN	: AEROSOLS				
ADR	: AEROSOLS				
RID	: AEROSOLS				
IMDG	: AEROSOLS				
ΙΑΤΑ	: Aerosols, flamn	nable			
14.3 Transport hazard class(es)					
	Class	Subsidiary risks			
ADG	: 2	2.1			
ADN	: 2	2.1			
ADR	: 2	2.1			
RID	: 2	2.1			
IMDG	: 2.1				
ΙΑΤΑ	: 2.1				
14.4 Packing group					
<b>ADG</b> Packing group	: Not assigned b	y regulation			
<b>ADN</b> Packing group Classification Code Labels	: Not assigned by regulation : 5F : 2.1				
ADR					
Packing group Classification Code	: Not assigned b : 5F	y regulation			
Labels	: 2.1				
Tunnel restriction code	: (D)				
<b>RID</b> Packing group Classification Code Hazard Identification Number Labels	<ul> <li>Not assigned by regulation</li> <li>5F</li> <li>r : 23</li> <li>: 2.1</li> </ul>				
IMDG					
Packing group Labels EmS Code	: Not assigned b : 2.1 : F-D, S-U	y regulation			
IATA (Cargo) Packing instruction (cargo aircraft)	: 203 20/24				



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		ig group	:	Not assigned by I Flammable Gas	regulation
	Packin ger air Packin	ig instruction (LQ) ig group	:	Y203	regulation
14.5	5 Enviro	onmental hazards			
	<b>ADG</b> Enviro	nmentally hazardous	:	no	
	<b>ADN</b> Enviro	nmentally hazardous	:	no	
	<b>ADR</b> Enviro	nmentally hazardous	:	no	
	<b>RID</b> Enviro	nmentally hazardous	:	no	
	<b>IMDG</b> 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.

#### **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 fol- lowing entries should be considered: Number on list 75 If you intend to use this product as tattoo ink, please contact your ven- dor.
REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that de- plete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable



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REACH (Annex	- List of substances s XIV)	ubje	ect to authorisation		: No	t applicable	
•	ion (EU) 2019/1148 o ecursors	n the	e marketing and us	e of e	xplo-		
cious tra	oduct is regulated by R ansactions, and signifi pe reported to the rele	can	t disappearances a	nd the		- acetone (ANNEX II)	
pean Pa control o	III: Directive 2012/18/ arliament and of the C of major-accident haza ous substances.	oun	cil on the	a f	FLAMM	ABLE AEROSOLS	
Water h ny)	azard class (Germa-	:	WGK 1 slightly wa Classification acco				
Volatile	organic compounds	:		ompo		′OC) content: < 840 g/l a ready to use condition.	
Other re	egulations:						

#### 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).

SECTION	16:	Other	information
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#### **Full text of H-Statements**

H220 H225 H226 H280 H302	<ul> <li>Extremely flammable gas.</li> <li>Highly flammable liquid and vapor.</li> <li>Flammable liquid and vapor.</li> <li>Contains gas under pressure; may explode if heated.</li> <li>Harmful if swallowed.</li> </ul>
H315 H317 H318 H319	<ul> <li>Causes skin irritation.</li> <li>May cause an allergic skin reaction.</li> <li>Causes serious eye damage.</li> <li>Causes serious eye irritation.</li> </ul>

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H335			: May cause respiratory irritation.				
H336		: May cause drowsiness or dizziness.					
EUH066			Repeated exposure may cause skin dryness or cracking.				
Full text of other abbreviations							
	Acute Tox.	:	Acute toxicity				
	Eye Dam.	:	Serious eye damage				
	Eye Irrit.		Eye irritation				
	Flam. Gas	:	Flammable gases				
	Flam. Liq.	:	Flammable liquids				
	Press. Gas	:	Gases under pressure				
	Skin Irrit.	:	Skin irritation				
	Skin Sens.	:	Skin sensitization				
	STOT SE	:	Specific target organ toxicity - single exposure				
2000/39/EC		:	: Europe. Commission Directive 2000/39/EC establishing a first				
	2019/1831/EU	:	list of indicative occupational exposure limit values Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values				
	DE TRGS 900			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		÷					
	DE TRGS 900 / AGW	÷	Time Weighted Av				
		-					

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; 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 as- sociated 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 sub- stance; 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 Re- striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature;

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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	Very Bioaccumulative							
	ification of the mixtu	re:	Classification procedure:					
Aeros	sol 1	H222, H229	Calculation method					
Eye D	Dam. 1	H318	Calculation method					
Skin S	Sens. 1	H317	Calculation method					

H336

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.

Calculation method

DE / EN

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