according to Regulation (EC) No. 1907/2006



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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 Felgensilber

Product code : 157.760

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

Use of the Sub- : Paints

stance/Mixture

Recommended restrictions : p

on use

professional use, Industrial use

1.3 Details of the supplier of the safety data sheet

Company : Vosschemie GmbH DISTRIBUTOR IN NEW ZEALAND:

Esinger Steinweg 50 RA Johnstone & Co Ltd
25436 Uetersen 33 Ha Crescent, Wiri,
Germany Auckland 2104 New Zea

Germany
Auckland 2104 New Zealand
info@vosschemie.de
Phone +64 9 25000 91
Email sales@raj.co.nz
04122 717 0
Web www.raj.co.nz

Telephone : 04122 717 0 Telefax : 04122 717158

Responsible Department : Laboratory

04122 717 0

sds@vosschemie.de

1.4 Emergency telephone number

Telephone : Giftinformationszentrum (GIZ)-Nord,

Göttingen, Deutschland

0551 19240

24hr Emergency Assistance in New Zealand

National Poison Control Centre: 0800 POISON [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.

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.

#### 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.

Supplemental Hazard

Statements

EUH066

Repeated exposure may cause skin

dryness or cracking.

Buildup of explosive mixtures possible without

sufficient ventilation.

Precautionary statements

101 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.

P261 Avoid breathing spray.

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

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

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P312 Call a POISON CENTER/ doctor if you feel unwell. P337 + P313 If eye irritation persists: Get medical advice/ attention.

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 components which must be listed on the label:

acetone 2-methoxy-1-methylethyl acetate n-butyl 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

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 system) EUH066	>= 25 - < 50
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315	>= 2.5 - < 5

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		Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system, Liver, Kid- ney) Asp. Tox. 1; H304 Aquatic Chronic 3; H412  Acute toxicity estimate  Acute inhalation toxicity: 11 mg/l	
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
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	>= 1 - < 2.5
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 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
butyl glycollate	7397-62-8 230-991-7 01-2119514685-36	Eye Dam. 1; H318 Repr. 2; H361	>= 0.1 - < 1
Substances with a workplace expo	sure limit :		
dimethyl ether	115-10-6 204-065-8 603-019-00-8 01-2119472128-37	Flam. Gas, Press. Gas 1, Compr. Gas; H220	>= 10 - < 25

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.

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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 : In case of eye contact, remove contact lens and rinse imme-

diately 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 expo-

sure.

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.

### **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-

fighting

Vapours may form explosive mixtures with air.

Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

Hazardous combustion prod: :

ucts

Carbon monoxide, carbon dioxide and unburned hydrocar-

bons (smoke).

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Use personal protective equipment. Wear suitable respiratory

protection equipment.

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Further information : Use extinguishing measures that are appropriate to local cir-

cumstances 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.

#### **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 vapour or mist.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

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.

### **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 ex-

pose 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 : Please observe the storage instructions for aerosols! Keep

according to Regulation (EC) No. 1907/2006



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areas and containers containers tightly closed in a cool, well-ventilated place. Keep

away from direct sunlight. Keep away from heat and sources

of ignition.

Further information on stor-

age conditions

Storage must be in accordance with the BetrSichV (Germany).

Advice on common storage : Keep away from food and drink.

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	2000/39/EC
			1,210 mg/m3	
	Further inform	nation: Indicative		
		TWA	500 ppm	GB EH40
			1,210 mg/m3	
		STEL	1,500 ppm	GB EH40
			3,620 mg/m3	
dimethyl ether	115-10-6	TWA	1,000 ppm	2000/39/EC
			1,920 mg/m3	
	Further inform	nation: Indicative		
		TWA	400 ppm	GB EH40
			766 mg/m3	
		STEL	500 ppm	GB EH40
			958 mg/m3	
butane (containing	106-97-8	STEL	750 ppm	GB EH40
< 0,1 % butadiene (203-450-8))			1,810 mg/m3	
,	Further inform	nation: Capable of ca	ausing cancer and/or heritabl	e genetic dam-
	age.	•		· ·
		TWA	600 ppm	GB EH40
			1,450 mg/m3	
	Further inform	nation: Capable of ca	ausing cancer and/or heritabl	e genetic dam-
	age.	·	_	
xylene	1330-20-7	TWA	50 ppm	2000/39/EC
			221 mg/m3	
	Further inform	nation: Identifies the	possibility of significant uptal	ce through the
	skin, Indicativ	/e	. , , , , , , , , , , , , , , , , , , ,	· ·
		STEL	100 ppm	2000/39/EC
			442 mg/m3	
	Further inforn	nation: Identifies the	possibility of significant uptal	ke through the
	skin, Indicativ			ŭ
		TWA	50 ppm	GB EH40

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	1	1	220 mg/m3	I	
	Further inforn	nation: Can be abso	rbed through the skin. The	assigned sub-	
		hose for which there	are concerns that dermal		
	, , , , , , , , , , , , , , , , , , , ,	STEL	100 ppm	GB EH40	
			441 mg/m3		
		hose for which there	bed through the skin. The are concerns that dermal		
2-methoxy-1-	108-65-6	STEL	100 ppm	2000/39/EC	
methylethyl ace- tate			550 mg/m3		
	Further inform skin, Indicativ		possibility of significant up	take through the	
		TWA	50 ppm 275 mg/m3	2000/39/EC	
	Further inform		possibility of significant up	take through the	
		TWA	50 ppm 274 mg/m3	GB EH40	
	stances are the	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
	lead to system	STEL	100 ppm 548 mg/m3	GB EH40	
		nose for which there	rbed through the skin. The are concerns that dermal		
aluminium powder (stabilised)	7429-90-5	TWA (inhalable dust)	10 mg/m3	GB EH40	
		TWA (Respirable dust)	4 mg/m3	GB EH40	
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40	
		STEL	200 ppm 966 mg/m3	GB EH40	
		STEL	150 ppm 723 mg/m3	2019/1831/E U	
	Further inforn	nation: Indicative	,g		
		TWA	50 ppm 241 mg/m3	2019/1831/E U	
	Further inform	nation: Indicative	2 11 111g/1110		
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m3	2000/39/EC	
	Further inform		possibility of significant up	take through the	
		STEL	200 ppm 884 mg/m3	2000/39/EC	
	Further information: Identifies the possibility of significant uptake through the				
	skin, Indicativ	10			

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	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	125 ppm 552 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m3	GB EH40

### **Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methyl hippuric acid: 650 Millimo- les per mole Creat- inine (Urine)	After shift	GB EH40 BAT

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

Substance name	End Use	Exposure routes	Potential health effects	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
	Consumers	Inhalation	Long-term systemic effects	200 mg/m3
	Consumers	Skin contact, Oral	Long-term systemic effects	62 mg/kg
xylene	Workers	Inhalation	Acute systemic effects	289 mg/m3
	Workers	Inhalation	Acute local effects	289 mg/m3
	Workers	Skin contact	Long-term systemic effects	180 mg/kg
	Workers	Inhalation	Long-term systemic effects	77 mg/m3
	Consumers	Inhalation	Acute systemic effects	174 mg/m3
	Consumers	Inhalation	Acute local effects	174 mg/m3
	Consumers	Skin contact	Long-term systemic effects	108 mg/kg
	Consumers	Inhalation	Long-term systemic effects	14.8 mg/m3
2-methoxy-1- methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Inhalation	Acute local effects	550 mg/m3
	Workers	Skin contact	Long-term systemic effects	796 mg/kg
	Consumers	Inhalation	Long-term systemic effects, Long-term	33 mg/m3

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			local effects	
	Consumers	Skin contact	Long-term systemic effects	320 mg/kg
	Consumers	Oral	Long-term systemic effects	36 mg/kg
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
ethanol	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Oral	Long-term systemic effects	87 mg/kg
butyl glycollate	Workers	Inhalation	Long-term systemic effects	7.05 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg
	Consumers	Inhalation	Long-term systemic effects	1.74 mg/m3
	Consumers	Skin contact	Long-term systemic effects	25 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
	Marine water	1.06 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	30.4 mg/kg
	Marine sediment	3.04 mg/kg
	Soil	29.5 mg/kg
xylene	Fresh water	0.327 mg/l
	Marine water	0.327 mg/l
	Fresh water sediment	12.46 mg/l
	Marine sediment	12.46 mg/l
	Soil	2.31 mg/l
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.064 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	3.29 mg/kg
	Marine sediment	0.329 mg/kg
	Soil	0.29 mg/kg

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n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.018 mg/l
	Fresh water sediment	0.981 mg/kg dry
		weight (d.w.)
	Marine sediment	0.098 mg/kg dry
		weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry
		weight (d.w.)
ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3.6 mg/kg
	Marine sediment	2.9 mg/kg
	Soil	0.63 mg/kg
	Oral (Secondary Poisoning)	0.38 mg/kg
butyl glycollate	Fresh water	0.05 mg/l
	Marine water	0.005 mg/l
	Sewage treatment plant	232 mg/l
	Fresh water sediment	0.203 mg/kg
	Marine sediment	0.02 mg/kg
	Soil	0.011 mg/kg

#### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles

Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Directive : DIN EN 374

Material : butyl-rubber
Break through time : 15 min
Glove thickness : 0.7 mm
Directive : 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 re-

quired.

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 vapours or spray mist.

### **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Physical state : aerosol

Colour : silver

Odour : characteristic

Melting point/freezing point : not determined

Initial boiling point and boiling

range

-44.5 °C

Upper explosion limit / Upper :

flammability limit

18.6 %(V)

Lower explosion limit / Lower

flammability limit

1.7 %(V)

Flash point : < 0 °C

Ignition temperature : 235 °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

Vapour pressure : 3,600 hPa (20 °C)

Density : not determined

9.2 Other information

Explosives : Not explosive

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

Self-ignition : not auto-flammable

## **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 : Vapours 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.

#### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Not classified based on available information.

#### **Product:**

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h Test atmosphere: vapour Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

#### **Components:**

#### acetone:

Acute oral toxicity : LD50 Oral (Rat): 5,800 mg/kg

Acute inhalation toxicity : LC50 (Rat): ca. 132 mg/l

Exposure time: 3 h
Test atmosphere: vapour

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Acute dermal toxicity : LD50 Dermal (Rabbit): > 7,426 mg/kg

xylene:

Acute oral toxicity : LD50 Oral (Rat): > 2,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l

Exposure time: 4 h
Test atmosphere: vapour
Method: Expert judgement

LC50 (Rat): 21.7 mg/l Exposure time: 4 h Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 1,700 mg/kg

2-methoxy-1-methylethyl acetate:

Acute oral toxicity : LD50 Oral (Rat): 6,190 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): > 1883 ppm

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

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

n-butyl acetate:

Acute oral toxicity : LD50 (Rat): 10,760 mg/kg

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

Exposure time: 4 h
Test atmosphere: vapour

Method: OECD Test Guideline 403

ethylbenzene:

Acute oral toxicity : LD50 (Rat): 3,500 mg/kg

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: vapour

Method: OECD Test Guideline 403

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

toxicity

butyl glycollate:

Acute oral toxicity : LD50 Oral (Rat): 4,595 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 6.2 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

**Components:** 

xylene:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

**Components:** 

xylene:

Result : Moderate eye irritation

ethanol:

Result : Mild eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause drowsiness or dizziness.

according to Regulation (EC) No. 1907/2006



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**Components:** 

xylene:

Assessment : May cause respiratory irritation.

2-methoxy-1-methylethyl acetate:

Exposure routes : Oral

Target Organs : Central nervous system

Assessment : May cause drowsiness or dizziness.

STOT - repeated exposure

Not classified based on available information.

**Components:** 

xylene:

Target Organs : Central nervous system, Liver, Kidney

Assessment : May cause damage to organs through prolonged or repeated

exposure.

ethylbenzene:

Target Organs : hearing organs

Assessment : May cause damage to organs through prolonged or repeated

exposure.

**Aspiration toxicity** 

Not classified based on available information.

Components:

xylene:

May be fatal if swallowed and enters airways.

11.2 Information on other hazards

**Endocrine disrupting properties** 

**Product:** 

Assessment : The substance/mixture does not contain components consid-

ered 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.

according to Regulation (EC) No. 1907/2006



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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

### **Components:**

acetone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8,120 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

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 (Microcystis aeruginosa (blue-green 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) Method: OECD Test Guideline 211

xylene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7.6 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 3.82 mg/l

Exposure time: 48 h Test Type: Immobilization

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 2.2

mg/l

Exposure time: 72 h
Test Type: Growth inhibition
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Bacteria): 157 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

NOEC: > 1.3 mg/l Exposure time: 56 d

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other : aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1.17 mg/l Exposure time: 7 d

Species: Daphnia dubia (water flea)

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Method: Regulation (EC) No. 440/2008, Annex, C.20

**Ecotoxicology Assessment** 

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

2-methoxy-1-methylethyl acetate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 100 - 180 mg/l

End point: mortality Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 500 mg/l

End point: Immobilization Exposure time: 48 h

Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): >

1,000 mg/l

End point: Growth rate Exposure time: 96 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

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 (Chron-

ic toxicity)

NOEC: >= 100 mg/l

Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

ethylbenzene:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)): 4.6

mg/l

Exposure time: 72 h

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 1 mg/l

Species: Ceriodaphnia dubia (water flea)

ethanol:

Toxicity to fish : LC50 (Fish): 11,200 mg/l

Exposure time: 96 h

This product has no known ecotoxicological effects.

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Toxicity to fish (Chronic tox-

icity)

NOEC: 250 mg/l Species: Fish

butyl glycollate:

Toxicity to fish : LC0 (Leuciscus idus (Golden orfe)): 50 mg/l

Exposure time: 48 h Method: DIN 38412

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 280 mg/l

End point: Immobilization Exposure time: 24 h Method: DIN 38412

Toxicity to microorganisms : EC50 (Pseudomonas putida): 2,240 mg/l

Exposure time: 3 h

### 12.2 Persistence and degradability

#### **Components:**

acetone:

Biodegradability : Biodegradation: 90.9 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

xylene:

Biodegradability : Biodegradation: 87.8 %

Exposure time: 28 d

Method: OECD Test Guideline 301

2-methoxy-1-methylethyl acetate:

Biodegradability : Biodegradation: 90 %

Exposure time: 28 d

Method: OECD Test Guideline 301F

ethylbenzene:

Biodegradability : Result: rapidly degradable

Biodegradation: 79 % Exposure time: 10 d

butyl glycollate:

Biodegradability : Biodegradation: 81 %

Exposure time: 28 d

Method: OECD Test Guideline 301B

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### 12.3 Bioaccumulative potential

**Components:** 

acetone:

Bioaccumulation : Bioconcentration factor (BCF): 3

Partition coefficient: n-

octanol/water

log Pow: -0.24 (20 °C)

xylene:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 25.9

Partition coefficient: n-

octanol/water

log Pow: 3.16 (20 °C)

2-methoxy-1-methylethyl acetate:

Partition coefficient: n-

log Pow: 1.2 (20 °C)

octanol/water

pH: 6.8

ethylbenzene:

Partition coefficient: n-

octanol/water

log Pow: 3.6 (20 °C)

ethanol:

Partition coefficient: n-

octanol/water

log Pow: -0.3

butyl glycollate:

Partition coefficient: n-

octanol/water

log Pow: 0.38 (25 °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 consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

#### 12.7 Other adverse effects

**Product:** 

Additional ecological infor-

mation

: No data available

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : According to the European Waste Catalogue, 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

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

IATA : Aerosols, flammable

### 14.3 Transport hazard class(es)

 ADN
 : 2

 ADR
 : 2

 RID
 : 2

according to Regulation (EC) No. 1907/2006



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IMDG : 2.1
IATA : 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 : 203

aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation
Labels : Division 2.1 - Flammable gases

IATA (Passenger)

Packing instruction (passen: 203

ger aircraft)

Packing instruction (LQ) : Y203

Packing group : Not assigned by regulation
Labels : Division 2.1 - Flammable gases

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

according to Regulation (EC) No. 1907/2006



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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,

REACH - Candidate List of Substances of Very High

REACH - List of substances subject to authorisation

preparations and articles (Annex XVII)

Concern for Authorisation (Article 59).

: Not applicable

Not applicable

Not applicable

NEW ZEALND:

Class 2.1.2A Extremely

flammable Aerosol

Class 6.4A Class 6.9B Eye Irritant Aspiration Hazard

HSR002515 Aerosols

Aerosols (Flammable)

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)

(Annex XIV)

Not applicable

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

Acquisition, introduction, possession or use of the explosive precursor by the general public is subject to reporting obligations.

acetone (ANNEX II) aluminium powder (stabilised) (ANNEX II)

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

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 Directive 92/85/EEC regarding maternity protection 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.

according to Regulation (EC) No. 1907/2006



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#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H220 : Extremely flammable gas.

H225 : Highly flammable liquid and vapour. H226 : Flammable liquid and vapour.

H304 : May be fatal if swallowed and enters airways.

H312 : Harmful in contact with skin.

H315 : Causes skin irritation.

H318 : Causes serious eye damage. H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H336 : May cause drowsiness or dizziness.

H361 : Suspected of damaging fertility or the unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H412 : Harmful to aquatic life with long lasting effects.

EUH066 : Repeated exposure may cause skin dryness or cracking.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Asp. Tox. : Aspiration hazard Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation
Flam. Gas : Flammable gases
Flam. Liq. : Flammable liquids
Press. Gas : Gases under pressure
Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure 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

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 BAT : UK. Biological monitoring guidance 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

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

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

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centration 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; 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: Classification procedure:

Aerosol 1 H222, H229 Calculation method
Eye Irrit. 2 H319 Calculation method
STOT SE 3 H336 Calculation method

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