

**Safety Data Sheet**

According to Regulation EC No. 1907/2006

**Sprühkleber GP Industrie**

Date of issue/Date of revision: 07.05.2020

en / GB - Version 1.1

**1. Identification of the substance/preparation and of the company/undertaking****1.1 Identification of the substance or preparation:****Sprühkleber GP Industrie****1.2 Use of the substance/preparation:**

Aerosol – Adhesives, sealants

**1.3 Company/undertaking identification**

Company name:

Gößl + Pfaff GmbH

Street:

Münchener Str. 13

Place:

85123 Karlskron/Brautlach

Telephone:

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Contact person:

Management: Mr. Gößl, Mr. Pfaff

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Responsible Department:

Management

**1.4 Emergency telephone****Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0) 6132-84463****2. Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Aerosol: Aerosol 1

Aspiration hazard: Asp. Tox. 1

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Respiratory or skin sensitisation: Skin Sens. 1

Specific target organ toxicity - single exposure: STOT SE 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Extremely flammable aerosol.

Pressurised container: May burst if heated.

May be fatal if swallowed and enters airways.

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

Harmful to aquatic life with long lasting effects.

**2.2. Label elements****Regulation (EC) No. 1272/2008****Hazard components for labelling**

Rosin, colophony

Hydrocarbons, C6, isoalkanes, &lt;5% n-hexane

Acetone

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

**Signal word:** Danger**Pictograms:**

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#### Hazard statements

- H222 Extremely flammable aerosol.  
 H229 Pressurised container: May burst if heated.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H412 Harmful to aquatic life with long lasting effects.

#### Precautionary statements

- P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves and eye/face protection.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
 P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

#### 2.3. Other hazards

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

### 3. Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
115-10-6	Dimethyl ether			60 – < 65 %
	204-065-8		01-2119472128-37	
	Flam. Gas 1, Liquefied gas; H220 H280			
8050-09-7	Rosin, colophony			5 – < 10 %
	232-475-7		01-2119480418-32	
	Skin Sens. 1; H317			
	Hydrocarbons, C6, isoalkanes, <5% n-hexane			5 – < 10 %
	931-254-9		01-2119484651-34	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411			
67-64-1	Acetone			5 – < 10 %
	200-662-2		01-2119471330-49	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			5 – < 10 %
	927-510-4		01-2119475515-33	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H225 H315 H336 H304 H411 EUH066			
110-82-7	Cyclohexane			0.1 – < 0.5 %
	203-806-2		01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE 3, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 1; H225 H315 H336 H304 H400 H410			

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1314-13-2	Zinc oxide		0.1 – < 0.5 %
	215-222-5	01-2119463881-32	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410		

Full text of H and EUH statements: see section 16.

#### 4. First aid measures

##### 4.1. Description of first aid measures

###### General information

When in doubt or if symptoms are observed, get medical advice.

###### After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration.

In case of respiratory tract irritation, consult a physician.

###### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

Take off immediately all contaminated clothing and wash it before reuse.

In case of skin irritation, consult a physician.

###### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

###### After ingestion

Observe risk of aspiration if vomiting occurs.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

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

Treat symptomatically.

#### 5. Fire-fighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

###### Unsuitable extinguishing media

Water.

##### 5.2. Special hazards arising from the substance or mixture

Extremely flammable aerosol.

Vapours can form explosive mixtures with air.

##### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Full protection suit.

###### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

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#### 6. Accidental release measures

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

Remove all sources of ignition.  
Provide adequate ventilation.  
Do not breathe gas/fumes/vapour/spray.  
Avoid contact with skin, eyes and clothes.  
Use personal protection equipment.

##### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment.  
Explosion risk.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

##### 6.4. Reference to other sections

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

Do not pierce or burn, even after use.  
Do not breathe gas/vapour/aerosol.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

###### Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material.  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Keep away from sources of ignition - No smoking.  
Take precautionary measures against static discharges.  
Vapours can form explosive mixtures with air.

###### Further information on handling

Heating causes rise in pressure with risk of bursting.

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

###### Requirements for storage rooms and vessels

Keep container tightly closed.  
Keep in a cool, well-ventilated place.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

###### Hints on joint storage

Do not store together with:  
Oxidizing agent.  
Pyrophoric or self-heating substances.

###### Further information on storage conditions

Keep away from food, drink and animal feedingstuffs.

##### 7.3. Specific end use(s)

Adhesives, sealants

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#### 8. Exposure controls/personal protection

##### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-64-1	Acetone	500	1210		TWA (8 h)	WEL
		1500	3620		STEL (15 min)	WEL
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
115-10-6	Dimethyl ether	400	766		TWA (8 h)	WEL
		500	958		STEL (15 min)	WEL
8050-09-7	Rosin-based solder flux fume	-	0.05		TWA (8 h)	WEL
		-	0.15		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No		Substance		
DNEL type		Exposure route	Effect	Value
115-10-6	Dimethyl ether			
	Consumer DNEL, long-term	inhalation	systemic	471 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	systemic	1894 mg/m <sup>3</sup>
	Hydrocarbons, C6, isoalkanes, <5% n-hexane			
	Worker DNEL, long-term	inhalation	systemic	5306 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	13964 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	1131 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	1377 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	1301 mg/kg bw/day
67-64-1	Acetone			
	Worker DNEL, long-term	inhalation	systemic	1210 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	2420 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	186 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	200 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	62 mg/kg bw/day
	Consumer DNEL, long-term	oral	systemic	62 mg/kg bw/day
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
	Worker DNEL, long-term	dermal	systemic	300 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	2085 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	149 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	447 mg/m <sup>3</sup>
	Consumer DNEL, long-term	oral	systemic	149 mg/kg bw/day
110-82-7	Cyclohexane			
	Consumer DNEL, long-term	oral	systemic	59,4 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	700 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	1400 mg/m <sup>3</sup>
	Worker DNEL, long-term	inhalation	local	700 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	local	1400 mg/m <sup>3</sup>
	Worker DNEL, long-term	dermal	systemic	2016 mg/kg bw/day
	Consumer DNEL, long-term	inhalation	systemic	206 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	systemic	412 mg/m <sup>3</sup>
	Consumer DNEL, long-term	inhalation	local	206 mg/m <sup>3</sup>
	Consumer DNEL, acute	inhalation	local	412 mg/m <sup>3</sup>
	Consumer DNEL, long-term	dermal	systemic	1186 mg/kg bw/day

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1314-13-2	Zinc oxide			
Worker DNEL, long-term		inhalation	systemic	5 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	0,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	2,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,83 mg/kg bw/day

#### PNEC values

CAS No	Substance		
Environmental compartment		Value	
115-10-6	Dimethyl ether		
Freshwater		0,155 mg/l	
Freshwater (intermittent releases)		1,549 mg/l	
Marine water		0,016 mg/l	
Freshwater sediment		0,681 mg/kg	
Marine sediment		0,069 mg/kg	
Micro-organisms in sewage treatment plants (STP)		160 mg/l	
Soil		0,045 mg/kg	
67-64-1	Acetone		
Freshwater		10,6 mg/l	
Marine water		1,06 mg/l	
Freshwater sediment		30,4 mg/kg	
Marine sediment		3,04 mg/kg	
Soil		29,5 mg/kg	
Freshwater (intermittent releases)		21 mg/l	
Micro-organisms in sewage treatment plants (STP)		100 mg/l	
1314-13-2	Zinc oxide		
Freshwater		0,0206 mg/l	
Marine water		0,0061 mg/l	
Freshwater sediment		117,8 mg/kg	
Marine sediment		56,5 mg/kg	
Micro-organisms in sewage treatment plants (STP)		0,1 mg/l	
Soil		35,6 mg/kg	

#### 8.2. Exposure controls

##### Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Do not breathe gas/vapour/aerosol.

##### Protective and hygiene measures

Remove contaminated, saturated clothing immediately.

Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary.

When using do not eat, drink, smoke, sniff.

##### Eye/face protection

Wear eye protection/face protection.

Suitable eye protection: goggles. DIN EN 166

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. EN ISO 374

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Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material: 0,5 mm

Breakthrough time (maximum wearing time): 240 min

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

**Skin protection**

Wear anti-static footwear and clothing

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

Suitable respiratory protection apparatus:

Combination filtering device (EN 14387) A-P2

**9. Physical and chemical properties**

Physical state:	liquid	
Colour:	transparent	
Odour:	like: solvent	
		<b>Test method:</b>
pH-Value:	not applicable.	
<b>Changes in the physical state</b>		
Melting point:	not applicable.	
Initial boiling point and boiling range:	< -20 °C	
Flash point:	< -20 °C	
Sustaining combustion:	no data available.	
<b>Flammability</b>		
Solid:	not applicable.	
Gas:	not applicable.	
<b>Explosive properties</b>		
Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.		
Lower explosion limits:	1 vol. %	
Upper explosion limits:	26,2 vol. %	
Ignition temperature:	> 200 °C	
<b>Auto-ignition temperature</b>		
Solid:	not applicable	
Gas:	not applicable	
Decomposition temperature:	not determined	
<b>Oxidizing properties</b>		
Not oxidising.		
Vapour pressure:	not determined	
Density (at 20 °C):	0,7 g/cm <sup>3</sup>	calculated.
Water solubility: (at 20 °C)	practically insoluble	
<b>Solubility in other solvents</b>		
not determined		
Partition coefficient:	not determined	
Viscosity / kinematic:	not applicable	
Vapour density:	not determined	
Evaporation rate:	not determined	
<b>9.2. Other information</b>		
Solid content:	not determined	

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#### 10. Stability and reactivity

##### 10.1. Reactivity

Extremely flammable aerosol.

##### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

##### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.  
Vapours can form explosive mixtures with air.

##### 10.5. Incompatible materials

No information available.

##### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name	Exposure route	Dose	Species	Source	Method
115-10-6	Dimethyl ether	inhalation (4 h) gas	LC50 164000 ppm	Rat	Study report (1979)	Ten male rats were administered the test
8050-09-7	Rosin, colophony	oral	LD50 2800 mg/kg	Rat	study pre-dated mode	
		dermal	LD50 > 2000 mg/kg	Rat	OECD Guideline 402	
	Hydrocarbons, C6, isoalkanes, <5% n-hexane	oral	LD50 > 5000 mg/kg	Rat	OECD 401	
		dermal	LD50 > 3000 mg/kg	Rat	OECD 402	
		inhalation (4 h) vapour	LC50 73860 mg/l	Rat	Industrial Medicine, Vol. 39, No. 5, May	OECD Guideline 403
67-64-1	Acetone	oral	LD50 5800 mg/kg	Rat	J Toxicol Environ Health 15: 609-621 (19)	Undiluted acetone applied to female rats
		dermal	LD50 > 7426 mg/kg	Rabbit	Toxicol Appl Pharmacol 7: 559-565. (1965)	other: Code of federal regulations: 21 C
		inhalation (4 h) vapour	LC50 76 mg/l	Rat		
	Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	oral	LD50 >5840 mg/kg	Rat		
		dermal	LD50 > 2800-3100 mg/kg	Rat	Study report (1977)	The acute toxicity of SBP 100/140 was de
		inhalation (4 h) vapour	LC50 > 23,3 mg/l	Rat	Study report (1988)	OECD Guideline 403
110-82-7	Cyclohexane	oral	LD50 > 5000 mg/kg	Rat	Study report (1982)	OECD Guideline 401
1314-13-2	Zinc oxide	oral	LD50 > 5000 mg/kg	Rat	Publication (1977)	OECD Guideline 401
		dermal	LD50 > 2000 mg/kg	Rat	Study report (2010)	OECD Guideline 402

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#### Irritation and corrosivity

Causes skin irritation. Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (Rosin, colophony)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause drowsiness or dizziness. (Hydrocarbons, C6, isoalkanes, <5% n-hexane)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

May be fatal if swallowed and enters airways.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## 12. Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No.	Chemical name		Dose	[h] [d]	Species	Source	Method
	Aquatic Toxicity						
115-10-6	Dimethylether						
	Acute fish toxicity	LC50 > 4100 mg/l	96 h	Poecilia reticulata	Study report (1988)	other: NEN 6504 Water - Determination of	
	Acute algae toxicity	ErC50 154,917 mg/l	96 h	green algae	Other company data (2009)	other: Data generated using ECOSAR v1.00	
	Acute crustacea toxicity	EC50 > 4400 mg/l	48 h	Daphnia magna	Study report (1988)	other: NEN6501: Water -Determination of	
8050-09-7	Rosin, colophony						
	Acute fish toxicity	LC50 < 10 mg/l	96 h	Brachydanio rerio	OECD Guideline 203		
	Acute algae toxicity	ErC50 > 1000 mg/l	72 h	Selenastrum capricornutum	OECD Guideline 201		
	Acute crustacea toxicity	EC50 911 mg/l	48 h	Daphnia magna	OECD Guideline 202		
	Acute bacteria toxicity	(> 10000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209		
	Hydrocarbons, C6, isoalkanes, <5% n-hexane						
	Acute fish toxicity	LC50 18,27 mg/l	96 h	Oncorhynchus mykiss	ECHA		
	Acute algae toxicity	ErC50 13,56 mg/l	72 h	Pseudokirch- neriella subcapitata	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a	
	Acute crustacea toxicity	EC50 31,9 mg/l	48 h	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a	
	Fish toxicity	NOEC 4,089 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a	
	Crustacea toxicity	NOEC 7,138 mg/l	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2009)	The aquatic toxicity was estimated by a	
67-64-1	Acetone						
	Acute fish toxicity	LC50 8120 mg/l	96 h	Pimephales promelas	Publication (1984)	OECD Guideline 203	

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	Acute crustacea toxicity	EC50 8800 mg/l	48 h	Daphnia pulex	Publication (1978)	The toxicity of acetone towards daphnids
	Algae toxicity	NOEC 430 mg/l	4 d			
	Crustacea toxicity	NOEC 2212 mg/l	28 d	Daphnia magna	Arch Environm Contam Toxicol 12: 305-310	Study conducted comparable to OECD 211 w
	Acute bacteria toxicity	(61150 mg/l)	0,5 h	activated sludge of a predominantly domestic sewage	Water Res 26: 887-892 (1992)	ISO 8192
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics						
	Acute fish toxicity	LC50 > 13,4 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203	
	Acute algae toxicity	ErC50 12 mg/l	72 h	Pseudokirchneriella subcapitata	SIDS Initial Assessment Report For SIAM	OECD Guideline 201
	Acute crustacea toxicity	EC50 3 mg/l	48 h	Daphnia magna	OECD Guideline 202	
	Fish toxicity	NOEC 1,534 mg/l	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2010)	The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC 1 mg/l	21 d	Daphnia magna	SIDS Initial Assessment Report For SIAM	OECD Guideline 211
110-82-7	Cyclohexane					
	Acute fish toxicity	LC50 4,53 mg/l	96 h	Pimephales promelas	Vol. 5, Centre for Lake Superior Studies	OECD Guideline 203
	Acute algae toxicity	ErC50 9,317 mg/l	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201
	Acute crustacea toxicity	EC50 3,78 mg/l	48 h	Daphnia magna	Aquatic Toxicology 8, 163-174. (1986)	OECD Guideline 202
1314-13-2	Zinc oxide					
	Acute fish toxicity	LC50 0,315 mg/l	96 h	Thymallus arcticus	Ecotoxicology and environmental safety 2	other: American Society for testing matr
	Acute algae toxicity	ErC50 0,74 mg/l	96 h	Anabaena sp.	Environmental Toxicology 30:895-903 (201	Algae groups exposed to different condit
	Acute crustacea toxicity	EC50 1,22 mg/l	48 h	Daphnia magna	Publication (1995)	other: US EPA/600/4-85/013 : methods for
	Fish toxicity	NOEC 0,44 mg/l	72 d	Oncorhynchus mykiss	Trans. Am. Fish. Soc. 111, 70-77 (1982)	lab -designed dose response test with sm
	Algae toxicity	NOEC 1,071 mg/l	16 d	Macrocystis pyrifera	Mar Environ Res 26(2):113-134 (1988)	16-d and 2-d toxicity test to early life
	Crustacea toxicity	NOEC 0,031 mg/l	50 d	Daphnia magna	Aquatic Toxicology 12,273-290 (1988)	chronic tests were performed for an exte
	Acute bacteria toxicity	(5,2 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Water research volume 17, nr10, 1363-136	OECD Guideline 209

#### 12.2. Persistence and degradability

The product has not been tested.

CAS-No.	Chemical name	Value	d	Source
	Method			
	Evaluation			
67-64-1	Acetone			
	Biodegration	91 %	28	

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Readily biodegradable (according to OECD criteria).			
Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics			
Biodegradation	98 %	28	
Readily biodegradable (according to OECD criteria).			

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS-No	Chemical name	Log Pow
115-10-6	Dimethyl ether	0,07
8050-09-7	Rosin, colophony	5,046
	Hydrocarbons, C6, isoalkanes, <5% n-hexane	3,6
67-64-1	Acetone	-0,23
110-82-7	Cyclohexane	3,44

#### BCF

CAS-No	Chemical name	BCF	Species	Source
8050-09-7	Rosin, colophony	7748		ECHA
	Hydrocarbons, C6, isoalkanes, <5% n-hexane	501,187	Pimephales promelas	QSAR in Environmenta
67-64-1	Acetone	3		Unpublished calculat
110-82-7	Cyclohexane	242		ECHA
1314-13-2	Zinc oxide	0,002	Danio rerio	Ware Reasearch 1:99-

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

### 13. Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Dispose of waste according to applicable legislation.

##### List of Wastes Code - residues/unused products

160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

##### Contaminated packaging

Non-contaminated packages may be recycled.

Handle contaminated packages in the same way as the substance itself.

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**14. Transport information****Land transport (ADR/RID)**

14.1. UN number: UN 1950  
 14.2. UN proper shipping name: AEROSOLS  
 14.3. Transport hazard class(es): 2  
 14.4. Packing group: -  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L

Excepted quantity: E0  
 Transport category: 2  
 Tunnel restriction code: D

**Inland waterways transport (ADN)**

14.1. UN number: UN 1950  
 14.2. UN proper shipping name: AEROSOLS  
 14.3. Transport hazard class(es): 2  
 14.4. Packing group: -  
 Hazard label: 2.1



Classification code: 5F  
 Special Provisions: 190 327 344 625  
 Limited quantity: 1 L  
 Excepted quantity: E0

**Marine transport (IMDG)**

14.1. UN number: UN 1950  
 14.2. UN proper shipping name: AEROSOLS  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 Hazard label: 2.1



Special Provisions: 63, 190, 277, 327, 344, 381, 959  
 Limited quantity: 1000 mL  
 Excepted quantity: E0  
 EmS: F-D, S-U

**Air transport (ICAO-TI/IATA-DGR)**

14.1. UN number: UN 1950  
 14.2. UN proper shipping name: AEROSOLS, FLAMMABLE  
 14.3. Transport hazard class(es): 2.1  
 14.4. Packing group: -  
 Hazard label: 2.1

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Special Provisions:	A145 A167 A802	
Limited quantity Passenger:	30 kg G	
Passenger LQ:	Y203	
Excepted quantity:	E0	
IATA-packing instructions - Passenger:		203
IATA-max. quantity - Passenger:		75 kg
IATA-packing instructions - Cargo:		203
IATA-max. quantity - Cargo:		150 kg

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Warning: Flammable gases.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 57: Cyclohexane

2010/75/EU (VOC): 95,094 % (665,655 g/l)

2004/42/EC (VOC): 86,379 % (604,65 g/l)

Information according to 2012/18/EU P3a FLAMMABLE AEROSOLS

(SEVESO III):

**Additional information**

To follow: 850/2004/EC, 1107/2009/EC, 649/2012/EC

Aerosol directive (75/324/EEC).

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D): 1 - slightly water contaminating

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**16. Other information****Changes**

Changes in sections: 2, 3, 4, 6, 7, 8, 9, 12, 14, 15, 16.

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road )

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50 %

LD50: Lethal dose, 50 %

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50 %

EL50: Effect loading, 50 %

EC50: Effective Concentration 50 %

ErC50: Effective Concentration 50 %, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

**Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]****Classification****Classification procedure**

Aerosol 1; H222-H229

On basis of test data

Asp. Tox. 1; H304

Calculation method

Skin Irrit. 2; H315

Bridging principle "Aerosols"

Eye Irrit. 2; H319

Bridging principle "Aerosols"

Skin Sens. 1; H317

Bridging principle "Aerosols"

STOT SE 3; H336

Bridging principle "Aerosols"

Aquatic Chronic 3; H412

Calculation method

**Relevant H and EUH statements (number and full text)**

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H225 Highly flammable liquid and vapour.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

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.

H412 Harmful to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

The information of this MSDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.