

beko Kraft-Sprühkleber

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

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1.2. Relevant identified uses of the substance or mixture and uses advised against**Use of the substance/mixture**

Aerosol - Adhesives, sealants

Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Company name:	beko GmbH	
Street:	Rappenfeldstr. 5	
Place:	DE-86653 Monheim	
Telephone:	+49 (0) 9091 90898-0	Telefax: +49 (0) 9091 90898-29
e-mail (Contact person):	info@beko-group.com	
Internet:	www.beko-group.com	
Responsible Department:	Abteilung Produktentwicklung	

1.4. Emergency telephone number: Poison Control Center Mainz - 24 hour emergency service – phone: +49 (0) 6131/19240

SECTION 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, <5% n-hexane

Acetone

Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics

Signal word: Danger

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Pictograms:



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.

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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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			
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.

SECTION 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.

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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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO₂), 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.

SECTION 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

SECTION 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

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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

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	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

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DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
115-10-6	Dimethyl ether			
Consumer DNEL, long-term		inhalation	systemic	471 mg/m ³
Worker DNEL, long-term		inhalation	systemic	1894 mg/m ³
	Hydrocarbons, C6, isoalkanes, <5% n-hexane			
Worker DNEL, long-term		inhalation	systemic	5306 mg/m ³
Worker DNEL, long-term		dermal	systemic	13964 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1131 mg/m ³
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 ³
Worker DNEL, acute		inhalation	local	2420 mg/m ³
Worker DNEL, long-term		dermal	systemic	186 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	200 mg/m ³
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 ³
Consumer DNEL, long-term		dermal	systemic	149 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	447 mg/m ³
Consumer DNEL, long-term		oral	systemic	149 mg/kg bw/day
110-82-7	Cyclohexane			
Worker DNEL, long-term		inhalation	systemic	700 mg/m ³
Worker DNEL, acute		inhalation	systemic	1400 mg/m ³
Worker DNEL, long-term		inhalation	local	700 mg/m ³
Worker DNEL, acute		inhalation	local	1400 mg/m ³
Worker DNEL, long-term		dermal	systemic	2016 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	206 mg/m ³
Consumer DNEL, acute		inhalation	systemic	412 mg/m ³
Consumer DNEL, long-term		inhalation	local	206 mg/m ³
Consumer DNEL, acute		inhalation	local	412 mg/m ³
Consumer DNEL, long-term		dermal	systemic	1186 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	59,4 mg/kg bw/day
1314-13-2	Zinc oxide			
Worker DNEL, long-term		inhalation	systemic	5 mg/m ³
Worker DNEL, long-term		inhalation	local	0,5 mg/m ³

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Worker DNEL, long-term	dermal	systemic	83 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	2,5 mg/m ³
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	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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	transparent
Odour:	like: Solvent

Test method

pH-Value:	not applicable
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Changes in the physical state

Melting point:	not applicable
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Initial boiling point and boiling range:	< -20 °C
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Flash point:	< -20 °C
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Sustaining combustion:	No data available
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Flammability

Solid:	not applicable
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Gas:	not applicable
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Explosive properties

Heating may cause an explosion. In use, may form flammable/explosive vapour-air mixture.

Lower explosion limits:	1 vol. %
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Upper explosion limits:	26,2 vol. %
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Ignition temperature:	> 200 °C
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Auto-ignition temperature

Solid:	not applicable
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Gas:	not applicable
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Decomposition temperature:	not determined
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Oxidizing properties

Not oxidising.

Vapour pressure:	not determined
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Density (at 20 °C):	0,7 g/cm ³ calculated.
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Water solubility: (at 20 °C)	practically insoluble
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Solubility in other solvents

not determined

Partition coefficient:	not determined
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Viscosity / kinematic:	not applicable
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Vapour density:	not determined
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Evaporation rate: not determined

9.2. Other information

Solid content: not determined

SECTION 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.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

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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

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)

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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].

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
115-10-6	Dimethyl ether					
	Acute fish toxicity	LC50 mg/l	> 4100	96 h	Poecilia reticulata	Study report (1988) other: NEN 6504 Water - Determination of
	Acute algae toxicity	ErC50 mg/l	154,917	96 h	green algae	Other company data (2009) other: Data generated using ECOSAR v1.00
	Acute crustacea toxicity	EC50 mg/l	> 4400	48 h	Daphnia magna	Study report (1988) other: NEN6501: Water -Determination of
8050-09-7	Rosin, colophony					
	Acute fish toxicity	LC50 mg/l	< 10	96 h	Brachydanio rerio	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	> 1000	72 h	Selenastrum capricornutum	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	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 mg/l	18,27	96 h	Oncorhynchus mykiss	ECHA
	Acute algae toxicity	ErC50 mg/l	13,56	72 h	Pseudokirchneriella subcapitata	CONCAWE, Brussels, Belgium (2009) The aquatic toxicity was estimated by a
	Acute crustacea toxicity	EC50 mg/l	31,9	48 h	Daphnia magna	CONCAWE, Brussels, Belgium (2009) The aquatic toxicity was estimated by a
	Fish toxicity	NOEC mg/l	4,089	28 d	Oncorhynchus mykiss	CONCAWE, Brussels, Belgium (2009) The aquatic toxicity was estimated by a
	Crustacea toxicity	NOEC mg/l	7,138	21 d	Daphnia magna	CONCAWE, Brussels, Belgium (2009) The aquatic toxicity was estimated by a
67-64-1	Acetone					
	Acute fish toxicity	LC50 mg/l	8120	96 h	Pimephales promelas	Publication (1984) OECD Guideline 203
	Acute crustacea toxicity	EC50 mg/l	8800	48 h	Daphnia pulex	Publication (1978) The toxicity of acetone towards daphnids
	Algae toxicity	NOEC	430 mg/l	4 d		
	Crustacea toxicity	NOEC mg/l	2212	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 mg/l	> 13,4	96 h	Oncorhynchus mykiss	OECD Guideline 203

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	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 mg/l	1,534	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 mg/l	4,53	96 h	Pimephales promelas	Vol. 5, Centre for Lake Superior Studies	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	9,317	72 h	Pseudokirchneriella subcapitata	Study report (1998)	OECD Guideline 201
	Acute crustacea toxicity	EC50 mg/l	3,78	48 h	Daphnia magna	Aquatic Toxicology 8, 163-174. (1986)	OECD Guideline 202
1314-13-2	Zinc oxide						
	Acute fish toxicity	LC50 mg/l	0,315	96 h	Thymallus arcticus	Ecotoxicology and environmental safety 2	other: American Society for testing matr
	Acute algae toxicity	ErC50 mg/l	0,74	96 h	Anabaena sp.	Environmental Toxicology 30:895-903 (201)	Algae groups exposed to different condit
	Acute crustacea toxicity	EC50 mg/l	1,22	48 h	Daphnia magna	Publication (1995)	other: US EPA/600/4-85/013 : methods for
	Fish toxicity	NOEC mg/l	0,44	72 d	Oncorhynchus mykiss	Trans. Am. Fish. Soc. 111, 70-77 (1982)	lab -designed dose response test with sm
	Algae toxicity	NOEC mg/l	1,071	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 mg/l	0,031	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			
	Method	Value	d	Source
	Evaluation			
67-64-1	Acetone			
	Biodegradation	91%	28	
	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

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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.

SECTION 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.

SECTION 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

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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



Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G
Passenger LQ: Y203
Excepted quantity: E0

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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

SECTION 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 (SEVESO III): P3a FLAMMABLE AEROSOLS

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 hazard class (D): 1 - slightly hazardous to water

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

15.2. Chemical safety assessment

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

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 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

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

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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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)