

Safety Data Sheet

according to UK REACH Regulation

STUCCORINO Effect & Chamäleon Effect

Revision date: 12.06.2020

Product code:

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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**

Manufacture of wall designs. Professional use.

Uses advised against

Any non-intended use.

1.3. Details of the supplier of the safety data sheet

Company name: EINHORN WERKE GmbH
Street: Pappelweg 11
Place: D-34513 Waldeck
Telephone: +49 176 40722505
e-mail: vertrieb@einhornwerke.de
Contact person: Daniel Jertz
Internet: <https://www.einhornwerke.de/>
Responsible Department: vertrieb@einhornwerke.de
1.4. Emergency telephone number: +49 176 40722505 (9:00 - 16:00)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****GB CLP Regulation**

Hazard categories:

Respiratory or skin sensitisation: Skin Sens. 1A

Hazard Statements:

May cause an allergic skin reaction.

2.2. Label elements**GB CLP Regulation****Hazard components for labelling**

Rosin, colophony

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

4-morpholinecarbaldehyde

Cobalt 2-Ethylhexanoate

Signal word: Warning**Pictograms:****Hazard statements**

H317 May cause an allergic skin reaction.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing

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protection.

If skin irritation or rash occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Endocrine disrupting properties: 1-methoxy-2-propanol; monopropylene glycol methyl ether.

The substances in the mixture (>0,1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
8050-09-7	Rosin, colophony			7 - < 10 %
	232-475-7	650-015-00-7	01-2119480418-32	
	Skin Sens. 1; H317			
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha			5 - < 7 %
	265-150-3	649-327-00-6	01-2119486659-16	
	Asp. Tox. 1; H304 EUH066			
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			1 - < 3 %
	918-481-9	649-327-00-6	01-2119457273-39	
	Asp. Tox. 1; H304 EUH066			
162627-17-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine			0.5 - < 1 %
	605-296-0		01-2119970640-38	
	Skin Sens. 1A; H317			
4394-85-8	4-morpholinecarbaldehyde			0.3 - < 0.5 %
	224-518-3		01-2119987993-12	
	Skin Sens. 1B; H317			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			0.3 - < 0.5 %
	203-539-1	603-064-00-3	01-2119457435-35	
	Flam. Liq. 3, STOT SE 3; H226 H336			
85203-81-2	Hexanoic acid, 2-ethyl-, zinc salt, basic			0.3 - < 0.5 %
	286-272-3		01-2119979093-30	
	Repr. 2, Eye Irrit. 2, Aquatic Chronic 3; H361 H319 H412			
136-52-7	Cobalt 2-Ethylhexanoate			0.2 - < 0.3 %
	205-250-6		01-2119524678-29	
	Repr. 1B, Eye Irrit. 2, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 3; H360 H319 H317 H400 H412			
149-57-5	2-ethylhexanoic acid			0.2 - < 0.3 %
	205-743-6	607-230-00-6	01-2119488942-23	
	Repr. 2; H361			

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

Specific Conc. Limits, M-factors and ATE

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		Specific Conc. Limits, M-factors and ATE	
8050-09-7	232-475-7	Rosin, colophony	7 - < 10 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = > 5000 mg/kg	
64742-48-9	265-150-3	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	5 - < 7 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >5000 mg/kg	
-	918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	1 - < 3 %
		inhalation: LC50 = [>5] mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg	
162627-17-0	605-296-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	0.5 - < 1 %
		oral: LD50 = >10000 mg/kg	
4394-85-8	224-518-3	4-morpholinecarbaldehyde	0.3 - < 0.5 %
		inhalation: LC50 = >5319 mg/l (dusts or mists); dermal: LD50 = >18400 mg/kg; oral: LD50 = > 7314 mg/kg	
107-98-2	203-539-1	1-methoxy-2-propanol; monopropylene glycol methyl ether	0.3 - < 0.5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
85203-81-2	286-272-3	Hexanoic acid, 2-ethyl-, zinc salt, basic	0.3 - < 0.5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg	
136-52-7	205-250-6	Cobalt 2-Ethylhexanoate	0.2 - < 0.3 %
		oral: LD50 = 3129 mg/kg	
149-57-5	205-743-6	2-ethylhexanoic acid	0.2 - < 0.3 %
		inhalation: LC50 = LC0 (8h) = 0,11 mg/l (vapours); dermal: LD50 = LD 0 = 2000 mg/kg; oral: LD50 = 2043 mg/kg	

Further Information

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, seek medical treatment.

After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

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

Treat symptomatically.

SECTION 5: Firefighting measures

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5.1. Extinguishing media**Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO). metal oxide smoke.

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Safe handling: see section 7

Personal protection equipment: see section 8

6.2. Environmental precautions

Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up**Other information**

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.

Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Wear suitable protective clothing. See section 8.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Always close containers tightly after the removal of product. Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and after work.

Further information on handling

General protection and hygiene measures: See section 8.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Keep container tightly closed in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff.

Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorption of humidity.

Recommended storage temperature: 20°C

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Protect against: frost. UV-radiation/sunlight. heat. Humidity

7.3. Specific end use(s)

See section 1.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
107-98-2	1-Methoxypropan-2-ol	100	375		TWA (8 h)	WEL
		150	560		STEL (15 min)	WEL
-	Cobalt and cobalt compounds (as Co)	-	0.1		TWA (8 h)	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
8050-09-7	Rosin, colophony			
Worker DNEL, long-term		inhalation	local	10 mg/m³
Worker DNEL, long-term		dermal	systemic	2,131 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,065 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	1,065 mg/kg bw/day
4394-85-8	4-morpholinecarbaldehyde			
Worker DNEL, long-term		inhalation	systemic	50,3 mg/m³
Worker DNEL, long-term		inhalation	local	13,3 mg/m³
Consumer DNEL, long-term		inhalation	systemic	8,93 mg/m³
Consumer DNEL, long-term		inhalation	local	13,3 mg/m³
Consumer DNEL, long-term		oral	systemic	4,17 mg/kg bw/day
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
Worker DNEL, long-term		inhalation	systemic	369 mg/m³
Worker DNEL, acute		inhalation	systemic	553,5 mg/m³
Worker DNEL, acute		inhalation	local	553,5 mg/m³
Worker DNEL, long-term		dermal	systemic	183 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	43,9 mg/m³
Consumer DNEL, long-term		dermal	systemic	78 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	33 mg/kg bw/day
149-57-5	2-ethylhexanoic acid			
Worker DNEL, long-term		inhalation	systemic	14 mg/m³
Worker DNEL, long-term		dermal	systemic	2 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	3,5 mg/m³
Consumer DNEL, long-term		dermal	systemic	1 mg/kg bw/day

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Consumer DNEL, long-term	oral	systemic	1 mg/kg bw/day
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PNEC values

CAS No	Substance	
Environmental compartment		Value
8050-09-7	Rosin, colophony	
Freshwater		0,002 mg/l
Freshwater (intermittent releases)		0,016 mg/l
Marine water		0 mg/l
Freshwater sediment		0,007 mg/kg
Marine sediment		0,001 mg/kg
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
Soil		0 mg/kg
162627-17-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine	
Soil		5,8 mg/kg
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	
Freshwater		10 mg/l
Freshwater (intermittent releases)		100 mg/l
Marine water		1 mg/l
Marine water (intermittent releases)		100 mg/l
Freshwater sediment		52,3 mg/kg
Marine sediment		5,2 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/kg
Soil		4,59 mg/kg
149-57-5	2-ethylhexanoic acid	
Freshwater		0,36 mg/l
Freshwater (intermittent releases)		0,493 mg/l
Marine water		0,036 mg/l
Freshwater sediment		6,37 mg/kg
Marine sediment		0,637 mg/kg
Micro-organisms in sewage treatment plants (STP)		71,7 mg/l
Soil		1,06 mg/kg

8.2. Exposure controls**Appropriate engineering controls**

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses; chemical goggles (if splashing is possible). BS/EN 166

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Hand protection

Wear suitable gloves.

Suitable material:

FKM (fluororubber). - Thickness of glove material: 0,4 mm

Breakthrough time $\geq$ 8 h

Butyl rubber. - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm

Breakthrough time $\geq$ 8 h

PVC (Polyvinyl chloride). - Thickness of glove material: 0,5 mm

Breakthrough time $\geq$ 8 h

The selected protective gloves have to satisfy the specifications of EU Directive EC/2016/425 and the standard EN 374 derived from it.

Check leak tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Skin protection

Suitable protective clothing: Lab apron.

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500 (D).

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at:

-exceeding exposure limit values

-Insufficient ventilation and aerosol or mist formation

Suitable respiratory protective equipment: particulates filter device (DIN EN 143). Type: P1-3

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Environmental exposure controls

Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	not determined
Odour:	characteristic

Changes in the physical state

Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Flash point:	not determined

Explosive properties

none

Lower explosion limits:	not determined
Upper explosion limits:	not determined

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Auto-ignition temperature:	not determined
Self-ignition temperature	
Gas:	not determined
Decomposition temperature:	not determined
pH-Value:	not determined
Viscosity / dynamic:	not determined
Viscosity / kinematic:	not determined
Flow time:	not determined
Water solubility:	insoluble
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	SECTION 12: Ecological information
Vapour pressure:	not determined
Density:	not determined
Relative vapour density:	not determined

9.2. Other information**Information with regard to physical hazard classes**

Sustaining combustion:	Not sustaining combustion
Oxidizing properties	
none	

Other safety characteristics

Solvent separation test:	not determined
Solvent content:	not determined
Solid content:	not determined
Evaporation rate:	not determined

Further Information**SECTION 10: Stability and reactivity****10.1. Reactivity**

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

Refer to chapter 10.5.

10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

10.6. Hazardous decomposition productsCan be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide (CO). metal oxide smoke.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation**

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Toxicokinetics, metabolism and distribution

No data available.

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
8050-09-7	Rosin, colophony				
	oral	LD50 > 5000 mg/kg	Rat	ECHA Dossier	OECD Guideline 401
	dermal	LD50 >2000 mg/kg	Rat.	ECHA Dossier	
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha				
	oral	LD50 >5000 mg/kg	Rat.	ECHA dossier	
	dermal	LD50 >2000 mg/kg	Rabbit.	ECHA dossier	
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics				
	oral	LD50 >5000 mg/kg	Rat	ECHA dossier	read-across
	dermal	LD50 >5000 mg/kg	Rabbit	ECHA dossier	read-across
	inhalation vapour	LC50 [>5] mg/l	8h, Rat	ECHA dossier	read-across
162627-17-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine				
	oral	LD50 >10000 mg/kg	Rat.	ECHA DOSSIER	OECD 401
4394-85-8	4-morpholinecarbaldehyde				
	oral	LD50 > 7314 mg/kg	Rat.	ECHA DOSSIER	OECD 401
	dermal	LD50 >18400 mg/kg	Rabbit.	ECHA DOSSIER	OECD 402
	inhalation (4 h) aerosol	LC50 >5319 mg/l	Rat.	ECHA DOSSIER	test mat.
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether				
	oral	LD50 >2000 mg/kg	Rat	ECHA Dossier	
	dermal	LD50 >2000 mg/kg	Rat	ECHA Dossier	
85203-81-2	Hexanoic acid, 2-ethyl-, zinc salt, basic				
	oral	LD50 >2000 mg/kg	Rat.	ECHA dossier	
	dermal	LD50 >2000 mg/kg	Rat.	ECHA dossier	
136-52-7	Cobalt 2-Ethylhexanoate				
	oral	LD50 3129 mg/kg	Rat.	ECHA dossier	
149-57-5	2-ethylhexanoic acid				
	oral	LD50 2043 mg/kg	Rat	ECHA Dossier	OECD Guideline 401

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	dermal	LD50 LD 0 = 2000 mg/kg	Rat	ECHA Dossier	OECD Guideline 402
	inhalation vapour	LC50 LC0 (8h) = 0,11 mg/l	Ratte	ECHA Dossier	OECD Guideline 403

Irritation and corrosivity

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

Sensitising effects

May cause an allergic skin reaction. (Rosin, colophony; Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine; 4-morpholinecarbaldehyde; Cobalt 2-Ethylhexanoate)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

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

STOT-repeated exposure

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

Aspiration hazard

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

Specific effects in experiment on an animal

No data available.

11.2. Information on other hazards**Endocrine disrupting properties**

Endocrine disrupting properties: 1-methoxy-2-propanol; monopropylene glycol methyl ether.

SECTION 12: Ecological information**12.1. Toxicity**

The product has not been tested.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
8050-09-7	Rosin, colophony					
	Acute fish toxicity	LC50 1,7 mg/l	96 h	Pimephales promelas	ECHA Dossier	OECD Guideline 203
	Acute algae toxicity	ErC50 > 100 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	EU Method C.3
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna	ECHA Dossier	OECD Guideline 202
	Acute bacteria toxicity	(> 10000 mg/l)	3 h	activated sludge of a predominantly domestic sewage	Study report (1997)	OECD Guideline 209
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics					
	Acute fish toxicity	LC50 LL0: 1000 mg/l	96 h	Oncorhynchus mykiss	ECHA dossier	
	Acute algae toxicity	ErC50 EL0: 1000 mg/l	72 h	Pseudokirchnerella subcapitata	ECHA dossier	
	Acute crustacea toxicity	EC50 EL0: 1000 mg/l	48 h	Daphnia magna	ECHA dossier	
4394-85-8	4-morpholinecarbaldehyde					
	Acute fish toxicity	LC50 >500 mg/l	96 h	Leuciscus idus	ECHA DOSSIER	DIN 38412

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	Acute algae toxicity	ErC50 mg/l	23880	72 h	Scenedesmus subspicatus	ECHA DOSSIER	DIN 38412, part 9
	Acute crustacea toxicity	EC50 mg/l	>500	48 h	Daphnia magna	ECHA DOSSIER	EC Dir. 79/831/EEC, Annex V, part C2
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether						
	Acute fish toxicity	LC50 23000 mg/l	18800-	96 h	Pimephales promelas	ECHA Dossier	
	Acute algae toxicity	ErC50 mg/l	> 1000	96 h	Pseudokirchnerella subcapitata	ECHA Dossier	
	Acute crustacea toxicity	EC50 mg/l	23300	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(>1000 mg/l)		3 h	activated sludge	ECHA Dossier	
85203-81-2	Hexanoic acid, 2-ethyl-, zinc salt, basic						
	Acute fish toxicity	LC50 mg/l	(100)	96 h	Cyprinus carpio	ECHA dossier	
	Acute algae toxicity	ErC50 mg/l	(2,72)	72 h	Pseudokirchnerella subcapitata	ECHA dossier	
	Acute crustacea toxicity	EC50 mg/l	(5,0)	48 h	Daphnia magna	ECHA dossier	
149-57-5	2-ethylhexanoic acid						
	Acute fish toxicity	LC50 mg/l	> 100	96 h	Oryzias latipes	NITE (National Institute of Technology a	OECD Guideline 203
	Acute algae toxicity	ErC50 mg/l	49,3	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	910 mg/l	48 h	Daphnia magna	NITE (National Institute of Technology a	OECD Guideline 202
	Crustacea toxicity	NOEC	25 mg/l	21 d	Daphnia magna	ECHA Dossier	OECD Guideline 211

12.2. Persistence and degradability

The product has not been tested.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
8050-09-7	Rosin, colophony			
	OECD Guideline 301 D	71%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics			
	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	80%		ECHA dossier
	Readily biodegradable (according to OECD criteria).			
162627-17-0	Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine			
	OECD 301F, EU C.4-D	0%	28	ECHA DOSSIER
	not degradable			
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether			
	OECD 301A / ISO 7827 / EEC 92/69 annex V, C.4-A	96%	28	ECHA Dossier
	Readily biodegradable (according to OECD criteria).			
149-57-5	2-ethylhexanoic acid			
	OECD Guideline 301E	99%	28	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			
	EU Method C.5	83%	20	ECHA Dossier
	Easily biodegradable (concerning to the criteria of the OECD)			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
8050-09-7	Rosin, colophony	> 3 - 6
-	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>4
107-98-2	1-methoxy-2-propanol; monopropylene glycol methyl ether	-0,437
85203-81-2	Hexanoic acid, 2-ethyl-, zinc salt, basic	>5,7
149-57-5	2-ethylhexanoic acid	2,7

BCF

CAS No	Chemical name	BCF	Species	Source
8050-09-7	Rosin, colophony	83000		ECHA Dossier
4394-85-8	4-morpholinecarbaldehyde	<1,9	Cyprinus carpio	OECD 305
149-57-5	2-ethylhexanoic acid	2,96		ECHA Dossier

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture (>0,1%) do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.7. Other adverse effects

No data available.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

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Disposal recommendations

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal.

Non-contaminated packages may be recycled.

According to (EWC) European Waste Catalogue, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Control report for waste code/ waste marking according to (EWC) European Waste Catalogue:

List of Wastes Code - residues/unused products

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - used product

160305 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused products; organic wastes containing hazardous substances; hazardous waste

List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

Contaminated packaging

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

SECTION 14: Transport information**Land transport (ADR/RID)**

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
<u>14.2. UN proper shipping name:</u>	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

Refer to section 6-8

14.7. Maritime transport in bulk according to IMO instruments

not relevant

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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 3

2010/75/EU (VOC): No information available.

2004/42/EC (VOC): No information available.

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

Additional information

Safety Data Sheet according to UK-REACH Regulation

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

UK REACH Appendix XVII, No (mixture): 3

National regulatory information

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

Water hazard class (D): 2 - obviously hazardous to water

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Rosin, colophony

Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

4-morpholinecarbaldehyde

1-methoxy-2-propanol; monopropylene glycol methyl ether

Hexanoic acid, 2-ethyl-, zinc salt, basic

Cobalt 2-Ethylhexanoate

2-ethylhexanoic acid

SECTION 16: Other information**Changes**

Rev. 1.0; Initial release 29.05.2020

Rev. 2.0; 12.06.2020, Changes in chapter: 1-16.

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)

AGW: Arbeitsplatzgrenzwert

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No Effect Level

d: day(s)

EINECS: European INventory of Existing Commercial chemical Substances

ELINCS: European List of Notified Chemical Substances

ECHA: European Chemicals Agency

EWC: European Waste Catalogue

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

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ICAO: International Civil Aviation Organization
 ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
 h: hour
 LOAEL: Lowest observed adverse effect level
 LOAEC: Lowest observed adverse effect concentration
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 NOAEL: No observed adverse effect level
 NOAEC: No observed adverse effect concentration
 NLP: No-Longer Polymers
 N/A: not applicable
 OECD: Organisation for Economic Co-operation and Development
 PNEC: predicted no effect concentration
 PBT: Persistent bioaccumulative toxic
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 REACH: Registration, Evaluation, Authorisation of Chemicals
 SVHC: substance of very high concern
 TRGS: Technische Regeln für Gefahrstoffe
 UN: United Nations
 VOC: Volatile Organic Compounds

Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Sens. 1A; H317	Calculation method

Relevant H and EUH statements (number and full text)

H226 Flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H360 May damage fertility or the unborn child.
 H361 Suspected of damaging fertility or the unborn child.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.
 EUH066 Repeated exposure may cause skin dryness or cracking.

Further Information

Classification according to Regulation (EC) No 1272/2008 [CLP] - Classification procedure:
 Health hazards: Calculation method.
 Environmental hazards: Calculation method.
 Physical hazards: On basis of test data and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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