

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**

65H  
Version 3.1

Hartmann Safetytren Spezialkleber  
Revision date 02-Mar-2023

Print date 02-Mar-2023

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

**1.1 Product identifier**

**Trade name/designation**

65H Hartmann Safetytren Spezialkleber  
UFI: NA2X-K0RG-Y00R-4QW2

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

**Relevant identified uses**

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Matthias Hartmann  
Orthopädie + Sport GmbH  
Auf der Langaar 8 Telephone: +49 2770 27 113 34  
35684 Dillenburg-Frohnhausen Telefax: + 49 2770 27 11329  
Deutschland E-mail: info@hartmann-os.com

**Department responsible for information**

E-mail (competent person) daniel@hartmann-os.com

**1.4 Emergency telephone number**

24 hr. emergency phone number: 02770 2711337

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Flam. Liq. 2; flammable liquids; H225 Highly flammable liquid and vapour.  
Eye Irrit. 2; Serious eye damage/eye irritation; H319 Causes serious eye irritation.  
STOT SE 3 Narcotic effects; STOT-single exposure; H336 May cause drowsiness or dizziness.  
Skin Irrit. 2; Skin corrosion/irritation; H315 Causes skin irritation.  
Aquatic Chronic 2; Hazardous to the aquatic environment; H411 Toxic to aquatic life with long lasting effects.

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



GHS02 GHS07 GHS09

**Signal word**

Danger

**Hazard statements**

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H315 Causes skin irritation.  
H411 Toxic to aquatic life with long lasting effects.

\* **Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves and eye/face protection.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P391 Collect spillage.  
P403 + P235 Store in a well-ventilated place. Keep cool.

**Hazard components for labelling**

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\* hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

\* **Supplemental hazard information**

EUH208 Contains rosin; colophony. May produce an allergic reaction.

**2.3 Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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

**3.2 Mixtures**

**Description**

polychloroprene adhesive with modified synthetic resins and stabilizers in a mixture of organic solvents.

**Hazardous ingredients**

CAS No. EC No. Index No.	Substance name REACH No. Classification according to Regulation (EC) No 1272/2008 [CLP]	weight-%
* - 921-024-6 649-328-00-1	<b>hydrocarbons, C6-C7, isoalkanes, cyclics, &lt;5% n-hexane</b> 01-2119475514-35 Flam. Liq. 2 H225 / Asp. Tox. 1 H304 / Skin Irrit. 2 H315 / STOT SE 3 H336 / Aquatic Chronic 2 H411 / EUH066 ATE> 5.000 mg/kg ATE> 20 mg/L (4 h) ATE (dermal): > 2.000 mg/kg	35,0 < 50,0
* 141-78-6 205-500-4 607-022-00-5	<b>ethyl acetate</b> 01-2119475103-46 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE (oral): > 5.620 mg/kg ATE (dermal): > 18.000 mg/kg ATE (inhalative): = 56 mg/L (4 h)	25,0 < 35,0
* 78-93-3 201-159-0 606-002-00-3	<b>butanone; ethyl methyl ketone</b> 01-2119457290-43 Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336 / EUH066 ATE= 10.470 mg/kg ATE= 5.000 mg/kg ATE (inhalative): > 20 mg/L (4 h)	10,0 < 15,0
* 8050-09-7 232-475-7 650-015-00-7	<b>rosin; colophony</b> 01-2119480418-32 Skin Sens. 1 H317 ATE> 2.000 mg/kg bw ATE (dermal): > 2.000 mg/kg bw	0,1 < 1,0
* 68989-03-7 939-607-9 -	<b>cocomonium methosulfate</b> Acute Tox. 4 H302 / Acute Tox. 3 H311 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 ATE (oral): > 2.000 mg/kg	0,1 < 1,0
* 128-37-0 204-881-4 -	<b>2,6-di-tert-butyl-p-cresol</b> 01-2119555270-46 Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 ATE (oral): > 5.000 mg/kg ATE (dermal): > 5.000 mg/kg	0,1 < 1,0

**Remark**

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

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

Remove affected person from the danger area and lay down.

**Following inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Medical treatment necessary.

**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse. In case of skin reactions, consult a physician. Rub greasy ointment into the skin.

**After eye contact**

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

\* **Following ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

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#### Self-protection of the first aider

First aider: Pay attention to self-protection!

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

##### Symptoms

dizziness. Nausea. headache. Unconsciousness.

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

Treat symptomatically. Transport affected person in lying position, in case of shortness of breath in half-sitting position. Where appropriate artificial ventilation. Subsequent observance for pneumonia and lung oedema.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam, Extinguishing powder, ABC-powder, spray mist, (water), Dry sand.

##### Unsuitable extinguishing media

Full water jet. Strong water jet.

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

Flammable. Vapours can form explosive mixtures with air. Do not inhale explosion and combustion gases.

#### 5.3 Advice for firefighters

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

#### 5.4 Additional information

Suppress gases/vapours/mists with water spray jet. Use water spray jet to protect personnel and to cool endangered containers. Remove product from area of fire. 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

Avoid contact with eyes and skin. Use personal protection equipment. Remove all sources of ignition. Provide adequate ventilation. The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration. Do not breathe gas/fumes/vapour/spray.

#### 6.2 Environmental precautions

Do not allow to enter into surface water or drains. Cover drains.

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

Absorb with liquid-binding material (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

##### Advices on safe handling

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe). If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

##### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. Before starting work, apply solvent-resistant skincare preparations.

##### Further information

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Vapours/aerosols must be exhausted directly at the point of origin. Take precautionary measures against static discharge.

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

##### Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container tightly closed. Store in a well-ventilated and dry room at temperatures between 10 °C and 30 °C. Ensure adequate ventilation of the storage area.

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**Hints on joint storage**

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances. Store packaging and ignitable materials separately. Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Floors should be impervious, resistant to liquids and easy to clean. Store small packages in a suitable, robust cabinet.

**7.3 Specific end use(s)**

Solvents/Thinner.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No.	Substance name	Source	Long-term /short-term (Spitzenbegrenzung)
128-37-0	2,6-di-tert-butyl-p-cresol	WEL	10 / - ( - ) mg/m <sup>3</sup>
* 78-93-3	butanone; ethyl methyl ketone	WEL	600 / 899 ( - ) mg/m <sup>3</sup>
* 141-78-6	ethyl acetate	WEL	734 / 1.468 ( - ) mg/m <sup>3</sup>
* -	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	WEL	1.800 / - ( - ) mg/m <sup>3</sup>
* 8050-09-7	rosin; colophony	WEL	0,05 / 0,15 ( - ) mg/m <sup>3</sup>

**Additional information**

Long-term: Long-term occupational exposure limit value  
short-term: short-term occupational exposure limit value

**Biological limit values**

No data available

**DNEL worker**

CAS No.	Substance name	DNEL type	DNEL value
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term inhalative (systemic)	5,8 mg/m <sup>3</sup>
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term dermal (systemic)	8,3 mg/kg bw/day
* 78-93-3	butanone; ethyl methyl ketone	DNEL long-term dermal (systemic)	1.161 mg/kg bw/day
* 78-93-3	butanone; ethyl methyl ketone	DNEL long-term inhalative (systemic)	600 mg/m <sup>3</sup>
* 141-78-6	ethyl acetate	DNEL long-term inhalative (systemic)	1,468 mg/L
* 141-78-6	ethyl acetate	DNEL acute inhalative (local)	1,468 mg/L
* 141-78-6	ethyl acetate	DNEL long-term dermal (systemic)	63 mg/kg
* -	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	773 mg/kg
* -	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	2.035 mg/m <sup>3</sup>
* 8050-09-7	rosin; colophony	DNEL long-term inhalative (systemic)	117 mg/m <sup>3</sup>
* 8050-09-7	rosin; colophony	DNEL long-term dermal (systemic)	17 mg/kg bw/day

**DNEL Consumer**

CAS No.	Substance name	DNEL type	DNEL value
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term inhalative (systemic)	1,74 mg/m <sup>3</sup>
128-37-0	2,6-di-tert-butyl-p-cresol	DNEL long-term dermal (systemic)	5 mg/kg bw/day
* 78-93-3	butanone; ethyl methyl ketone	DNEL long-term oral (repeated)	31 mg/kg bw/day

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*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term dermal (systemic)	412 mg/kg bw/day
*	78-93-3	butanone; ethyl methyl ketone	DNEL long-term inhalative (systemic)	106 mg/m <sup>3</sup>
*	141-78-6	ethyl acetate	DNEL acute inhalative (systemic)	0,734 mg/L
*	141-78-6	ethyl acetate	DNEL long-term inhalative (local)	0,734 mg/L
*	141-78-6	ethyl acetate	DNEL long-term dermal (systemic)	37 mg/kg
*	141-78-6	ethyl acetate	DNEL long-term inhalative (systemic)	0,037 mg/L
*	141-78-6	ethyl acetate	DNEL long-term oral (repeated)	4,5 mg/kg
*	141-78-6	ethyl acetate	DNEL acute inhalative (local)	0,367 mg/L
*	-	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term dermal (systemic)	699 mg/kg
*	-	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term inhalative (systemic)	608 mg/m <sup>3</sup>
*	-	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	DNEL long-term oral (repeated)	699 mg/kg
*	8050-09-7	rosin; colophony	DNEL long-term inhalative (systemic)	35 mg/m <sup>3</sup>
*	8050-09-7	rosin; colophony	DNEL long-term dermal (systemic)	10 mg/kg bw/day
*	8050-09-7	rosin; colophony	DNEL long-term oral (repeated)	10 mg/kg bw/day

**PNEC**

	CAS No.	Substance name	PNEC type	PNEC Value
	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC soil, freshwater	1,04 mg/kg dw
*	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC sewage treatment plant (STP)	100 mg/L
	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC sediment, freshwater	1,29 mg/kg dw
	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC Secondary Poisoning	16,7 mg/kg
*	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, marine water	0,4 µg/L
*	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, freshwater	4 µg/L
*	128-37-0	2,6-di-tert-butyl-p-cresol	PNEC aquatic, intermittent release	4 µg/L
*	78-93-3	butanone; ethyl methyl ketone	PNEC sewage treatment plant (STP)	709 mg/L
*	78-93-3	butanone; ethyl methyl ketone	PNEC aquatic, freshwater	55,8 mg/L
*	78-93-3	butanone; ethyl methyl ketone	PNEC soil, freshwater	22,5 mg/kg
*	78-93-3	butanone; ethyl methyl ketone	PNEC sediment, freshwater	284,7 mg/kg
*	141-78-6	ethyl acetate	PNEC aquatic, freshwater	0,26 mg/L
*	141-78-6	ethyl acetate	PNEC aquatic, marine water	0,026 mg/L
*	141-78-6	ethyl acetate	PNEC sediment, freshwater	0,34 mg/kg
*	141-78-6	ethyl acetate	PNEC sediment, marine water	0,034 mg/kg
*	141-78-6	ethyl acetate	PNEC soil, freshwater	0,22 mg/kg
*	8050-09-7	rosin; colophony	PNEC aquatic, freshwater	0,002 mg/L
*	8050-09-7	rosin; colophony	PNEC aquatic, marine water	0 mg/L
*	8050-09-7	rosin; colophony	PNEC sewage treatment plant (STP)	1.000 mg/L
*	8050-09-7	rosin; colophony	PNEC sediment, freshwater	0,007 mg/kg dw
*	8050-09-7	rosin; colophony	PNEC sediment, marine water	0,001 mg/kg dw
*	8050-09-7	rosin; colophony	PNEC soil, freshwater	0 mg/kg dw

**8.2 Exposure controls**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

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#### **Personal protection equipment**

##### **Respiratory protection**

- \* If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Combination filtering device. Use the following filter types for cleaning waste gases:

##### **Hand protection**

Suitable material: NBR (Nitrile rubber)  
Thickness of the glove material:  $\geq 0,4$  mm

- \* Breakthrough time:  $\geq 480$  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.

##### **Eye/face protection**

Wear closely fitting protective glasses in case of splashes.

##### **Body protection**

When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. Wear anti-static footwear and clothing

##### **Environmental exposure controls**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

### **9.1 Information on basic physical and chemical properties**

Physical state	Liquid
Colour	light yellow
Odour	characteristic
pH at 20 °C	not determined
Melting point/freezing point	-86,3 °C
	Source: butanone; ethyl methyl ketone
Initial boiling point and boiling range	65 °C
Flash point	-18 °C
flammability	not applicable
Lower explosion limit at 20°C	1 Vol-%
Upper explosion limit at 20°C	11,5 Vol-%
Vapour pressure at 20°C	175 mbar
Relative vapour density	not applicable
Density at 20 °C	0,813 kg/L
Water solubility at 20°C	partially soluble
Partition coefficient: n-octanol/water	see section 12
Ignition temperature in °C	200 °C
Decomposition temperature	> 115 °C
	Source: rosin; colophony
Dynamic viscosity at 20 °C	1.350

### **9.2 Other information**

not applicable

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

### **10.1 Reactivity**

No hazardous reaction when handled and stored according to provisions.

### **10.2 Chemical stability**

The study does not need to be conducted because the substance is known to be stable at room temperature for prolonged periods of time (days).

### **10.3 Possibility of hazardous reactions**

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Gases / vapours, highly flammable. Vapours can form explosive mixtures with air.

#### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### 10.5 Incompatible materials

Acid, concentrated, Oxidising agent, strong.

#### 10.6 Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

## SECTION 11: Toxicological information

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

#### Acute toxicity

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

#### **2,6-di-tert-butyl-p-cresol**

LD50: oral (Rat): > 5.000 mg/kg; (OECD 401)

LD50: dermal (Rat): > 5.000 mg/kg; (OECD 402)

#### \* **butanone; ethyl methyl ketone**

LD50: (Rat): = 10.470 mg/kg; (OECD 401)

LD50: (Rabbit): = 5.000 mg/kg; (OECD 402)

#### \* **LC50: inhalative (Rat): > 20 mg/L (4 h); (OECD 403)**

#### **cocomonium methosulfate**

LD50: oral (Rat): > 2.000 mg/kg

#### \* **ethyl acetate**

LD50: oral (Rat): > 5.620 mg/kg

LD50: dermal (Rabbit): > 18.000 mg/kg

#### \* **LC50: inhalative (Rat): = 56 mg/L (4 h)**

#### \* **hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

LD50: (Rat): > 5.000 mg/kg; (OECD 401)

#### \* **LC50: (Rat): > 20 mg/L (4 h); (OECD 403)**

LD50: dermal (Rabbit): > 2.000 mg/kg; (OECD 402)

#### \* **rosin; colophony**

LD50: (Rat): > 2.000 mg/kg bw

#### \* **LD50: dermal (Rabbit): > 2.000 mg/kg bw**

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitisation

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

#### \* Overall assessment on CMR properties

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

#### STOT-single exposure

May cause drowsiness or dizziness.

#### 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.

#### **Practical experience/human evidence**



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- \* Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: Headache, Dizziness, fatigue, amyosthenia, Dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

#### 11.2 Information on other hazards

##### \* Endocrine disrupting properties

- \* This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

#### **Acute (short-term) fish toxicity**

##### \* **2,6-di-tert-butyl-p-cresol**

LC0: (Danio rerio (zebrafish)): > 0,57 mg/L (96 h)

##### \* **butanone; ethyl methyl ketone**

LC50: (Leuciscus idus (golden orfe)): > 100 mg/L (48 h)

##### \* **ethyl acetate**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 230 mg/L (96 h)

##### \* **hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

LC50: (Oncorhynchus mykiss (Rainbow trout)): = 11,4 mg/L (96 h)

##### **rosin; colophony**

- \* LC50: (Pimephales promelas (fathead minnow)): = 1,7 mg/L (96 h)  
Method: OECD 203

#### **Acute (short-term) toxicity to algae and cyanobacteria**

##### \* **2,6-di-tert-butyl-p-cresol**

IC50: (Scenedesmus subspicatus): > 0,4 mg/L (72 h)

##### \* **butanone; ethyl methyl ketone**

EC50 (Desmodesmus subspicatus): > 100 mg/L

##### \* **ethyl acetate**

LC50: (Desmodesmus subspicatus): = 5.600 mg/L (48 h)

##### \* **hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

EL50: (Pseudokirchneriella subcapitata): = 30 < x > 100 mg/L (72 h)

##### **rosin; colophony**

- \* ErC50: (Pseudokirchneriella subcapitata): = 39,6 mg/L (72 h)  
Method: OECD 201

#### **Acute (short-term) toxicity to crustacea**

##### \* **2,6-di-tert-butyl-p-cresol**

EC50 (Daphnia magna (Big water flea)): = 0,61 mg/L (48 h)

##### \* **butanone; ethyl methyl ketone**

EC50 (Daphnia magna (Big water flea)): > 100 mg/L (48 h)

##### \* **cocomonium methosulfate**

EC50 (Daphnia magna (Big water flea)): 1 < x > 10 mg/L (48 h)

##### \* **ethyl acetate**

EC50 (Daphnia magna (Big water flea)): = 165 mg/L (48 h)

##### \* **hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane**

EL50: (Daphnia magna (Big water flea)): = 3 mg/L (48 h)

##### **rosin; colophony**

- \* EC50 (Daphnia magna (Big water flea)): = 1,6 mg/L (48 h)  
Method: OECD 202

### 12.2 Persistence and degradability



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#### hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

- \* Biodegradation; (Activated sludge) = 81 % (28 d)  
Method: OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D  
Readily biodegradable (according to OECD criteria).

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water = 0,68

#### 12.4 Mobility in soil

No information available.

#### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6\* Endocrine disrupting properties

No information available.

#### 12.7 Other adverse effects

No information available.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

##### \* Product/Packaging disposal

Do not empty into drains; dispose of this material and its container in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

##### Waste codes/waste designations according to EWC/AVV

080409\* - Waste adhesives and sealants containing organic solvents or other dangerous substances

##### Other disposal recommendations

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

### SECTION 14: Transport information

#### 14.1 UN number or ID number

UN 1133

#### 14.2 UN proper shipping name

##### Land transport (ADR/RID)

- \* Adhesives (hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, ethyl acetate)

##### Sea transport (IMDG)

- \* Adhesives (contain hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, ethyl acetate)

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

- \* Adhesives (contain hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, ethyl acetate)

#### 14.3 Transport hazard class(es)

Land transport (ADR/RID)	3
Sea transport (IMDG)	3
Air transport (ICAO-TI / IATA-DGR)	3

#### 14.4 Packing group

Land transport (ADR/RID)	II for packages <= 450 litres: III
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- \* Sea transport (IMDG)  
II  
for packages <= 450 litres: III

Air transport (ICAO-TI / IATA-DGR)	II for packages < 30 litres: III
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#### 14.5 Environmental hazards

Land transport (ADR/RID)	ENVIRONMENTALLY HAZARDOUS
* Sea transport (IMDG)	Marine pollutant / hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane

#### 14.6 Special precautions for user

- \* Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.  
Advices on safe handling: see parts 6 - 8

#### 14.7 Maritime transport in bulk according to IMO instruments

No transport as bulk according to IBC Code.

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**  
**according to Regulation (EU) 2020/878**

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**14.8 Additional information**

**Land transport (ADR/RID)**

Tunnel restriction code: D/E for packages < = 450 litres: E

\* Special Provisions: SV 640C

Limited quantity (LQ): 5 Liter

Hazard identification number (Kemler No.): 33

**Sea transport (IMDG)**

\* EmS-No.: F-E, S-D

Limited quantity (LQ): 5 Liter

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

not applicable

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU legislation**

**Restrictions of occupation**

\* Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

\* **Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]**

\* VOC value: 645 g/l

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]**

**Hazard categories / Named dangerous substances**

E2 Hazardous to the aquatic environment in Category Chronic 2

Quantity 1: 200t; Quantity 2: 500t

\* P5c FLAMMABLE LIQUIDS

Quantity 1: 5.000t; Quantity 2: 50.000t

**National regulations**

\* Observe in addition any national regulations!

**15.2 Chemical Safety Assessment**

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

REACH No.	Substance name	CAS No. EC No.
* 01-2119555270-46	2,6-di-tert-butyl-p-cresol	128-37-0 204-881-4
* 01-2119457290-43	butanone; ethyl methyl ketone	78-93-3 201-159-0
* 01-2119475103-46	ethyl acetate	141-78-6 205-500-4
* 01-2119475514-35	hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	- 921-024-6
* 01-2119480418-32	rosin; colophony	8050-09-7 232-475-7

**SECTION 16: Other information**

**List of relevant hazard statements and/or precautionary statements from sections 2 to 15**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

**Safety Data Sheet**  
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H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
* EUH066	Repeated exposure may cause skin dryness or cracking.

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

Flam. Liq. 2	On basis of test data.
Eye Irrit. 2	Calculation method.
STOT SE 3 Narcotic effects	Calculation method.
Skin Irrit. 2	Calculation method.
Aquatic Chronic 2	Calculation method.

**Abbreviations and acronyms**

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

OEL: Occupational Exposure Limit Value

BLV: Biological limit values

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

CMR: Carcinogenic, Mutagenic and Reprotoxic

DIN: German Institute for Standardization / German industrial standard

DNEL: Derived No-Effect Level

EAKV: European Waste Catalogue Directive

EC: Effective Concentration

EC: European Community

EN: European Standard

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

ICAO-TI: International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code: International Maritime Code for Dangerous Goods

ISO: International Organization for Standardization

LC: Lethal Concentration

LD: Lethal Dose

:

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

OECD: Organisation for Economic Cooperation and Development

PBT: persistent, bioaccumulative, toxic

PNEC: Predicted No Effect Concentration

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

UN: United Nations

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

**Indication of changes**

\* Data changed compared with the previous version.