



## Safety Data Sheet according to (EC) No 1907/2006 as amended

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TEROSON RB 4120

SDS No. : 76503  
V014.0

Revision: 29.05.2023

printing date: 05.06.2023

Replaces version from: 08.03.2023

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

#### 1.1. Product identifier

TEROSON RB 4120

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

Intended use:

1-Component sealant

#### 1.3. Details of the supplier of the safety data sheet

Henkel AG & Co. KGaA

Henkelstr. 67

40589 Düsseldorf

Germany

Phone: +49 211 797 0

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

[SDSinfo.Adhesive@henkel.com](mailto:SDSinfo.Adhesive@henkel.com)

#### 1.4. Emergency telephone number

The Henkel information service also provides an around-the-clock telephone service on phone no.+49-(0)211-797-3350 for exceptional cases.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification (CLP):

Carcinogenicity

H350 May cause cancer.

Category 1B

Chronic hazards to the aquatic environment

H412 Harmful to aquatic life with long lasting effects.

Category 3

#### 2.2. Label elements

##### Label elements (CLP):

##### Hazard pictogram:



Contains

cumene

<b>Signal word:</b>	Danger
<b>Hazard statement:</b>	H350 May cause cancer. H412 Harmful to aquatic life with long lasting effects.
<b>Supplemental information</b>	Restricted to professional users.
<b>Precautionary statement: Prevention</b>	P201 Obtain special instructions before use. P273 Avoid release to the environment.
<b>Precautionary statement: Response</b>	P308+P313 IF exposed or concerned: Get medical advice/attention.

### 2.3. Other hazards

Following substances are present in a concentration  $\geq$  the concentration limit for depiction in Section 3 and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):

This mixture does not contain any substances in a concentration  $\geq$  the concentration limit for depiction in Section 3 that are assessed to be a PBT, vPvB or ED.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No. EC Number REACH-Reg No.	Concentration	Classification	Specific Conc. Limits, M-factors and ATEs	Add. Information
Barite (Ba(SO <sub>4</sub> )) 13462-86-7 236-664-5	20- 40 %			EU OEL
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6 918-668-5 01-2119455851-35	5- < 10 %	Flam. Liq. 3, H226 Asp. Tox. 1, Oral, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411		
Softwood powder	1- < 5 %	Carc. 2, H351		
1,2,4-trimethylbenzene 95-63-6 202-436-9 01-2119472135-42	1- < 5 %	Aquatic Chronic 2, H411 STOT SE 3, H335 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Acute Tox. 4, Inhalation, H332 Skin Irrit. 2, H315		EU OEL
cumene 98-82-8 202-704-5 01-2119473983-24	0,1- < 1 %	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 2, H411 Carc. 1B, H350	inhalation:ATE = 21 mg/l;vapour	EU OEL
zinc oxide 1314-13-2 215-222-5 01-2119463881-32	0,1- < 0,25 %	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M acute = 1 M chronic = 1	

For full text of the H - statements and other abbreviations see section 16 "Other information".

Substances without classification may have community workplace exposure limits available.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

General information:

Symptoms of poisoning may occur even after several hours, continue medical observation for at least 48 hours after the accident.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

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

No data available.

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

See section: Description of first aid measures

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

All common extinguishing agents are suitable.

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

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

In case of fire toxic gases can be released.

### 5.3. Advice for firefighters

Wear protective equipment.

Wear self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

Wear protective equipment.

Avoid contact with skin and eyes.

Keep unprotected persons away.

### 6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

Inform authorities in the event of product spillage to water courses or sewage systems.

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

Dispose of contaminated material as waste according to Section 13.

Remove mechanically.

### 6.4. Reference to other sections

See advice in section 8

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

Hygiene measures:

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

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

Ensure good ventilation/extraction.

Store in a cool place.

Storage at 15 to 20°C is recommended.

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

1-Component sealant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
Germany

Ingredient [Regulated substance]	ppm	mg/m <sup>3</sup>	Value type	Short term exposure limit category / Remarks	Regulatory list
Limestone 1317-65-3			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Limestone 1317-65-3		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Limestone 1317-65-3		10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Barite (Ba(SO <sub>4</sub> )) 13462-86-7 [BARIUM (SOLUBLE COMPOUNDS AS BA)]		0,5	Time Weighted Average (TWA):	Indicative	ECTLV
Barite (Ba(SO <sub>4</sub> )) 13462-86-7			Short Term Exposure Classification:	Category I: substances for which the localized effect has an assigned OEL or for substances with a sensitizing effect in respiratory passages.	TRGS 900
Barite (Ba(SO <sub>4</sub> )) 13462-86-7		0,5	Exposure limit(s):	1	TRGS 900
1,2,4-Trimethylbenzene 95-63-6 [1,2,4-TRIMETHYLBENZENE]	20	100	Time Weighted Average (TWA):	Indicative	ECTLV
1,2,4-Trimethylbenzene 95-63-6	20	100	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
1,2,4-Trimethylbenzene 95-63-6			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Zinc oxide 1314-13-2			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Zinc oxide 1314-13-2		1,25	Exposure limit(s):	If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Zinc oxide 1314-13-2		10	Exposure limit(s):	2 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Cumene 98-82-8	10	50	Exposure limit(s):	4 If the AGW and BGW values are complied with, there should be no risk of reproductive damage (see Number 2.7).	TRGS 900
Cumene 98-82-8			Skin designation:	Can be absorbed through the skin.	TRGS 900
Cumene 98-82-8			Short Term Exposure Classification:	Category II: substances with a resorptive effect.	TRGS 900
Cumene 98-82-8 [2-PHENYLPROPANE (CUMENE)]			Skin designation:	Can be absorbed through the skin.	ECTLV
Cumene 98-82-8	50	250	Short Term Exposure Limit (STEL):	Indicative	ECTLV

[2-PHENYLPROPANE (CUMENE)]					
Cumene 98-82-8	10	50	Time Weighted Average (TWA):	Indicative	ECLV
[2-PHENYLPROPANE (CUMENE)]					

**Predicted No-Effect Concentration (PNEC):**

Name on list	Environmental Compartment	Exposure period	Value				Remarks
			mg/l	ppm	mg/kg	others	
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	aqua (freshwater)						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	aqua (marine water)						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	sewage treatment plant (STP)						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	sediment (freshwater)						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	sediment (marine water)						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Soil						
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Predator						
1,2,4-trimethylbenzene 95-63-6	aqua (freshwater)		0,12 mg/l				
1,2,4-trimethylbenzene 95-63-6	aqua (intermittent releases)		0,12 mg/l				
1,2,4-trimethylbenzene 95-63-6	aqua (marine water)		0,12 mg/l				
1,2,4-trimethylbenzene 95-63-6	sewage treatment plant (STP)		2,41 mg/l				
1,2,4-trimethylbenzene 95-63-6	sediment (freshwater)				13,56 mg/kg		
1,2,4-trimethylbenzene 95-63-6	sediment (marine water)				13,56 mg/kg		
1,2,4-trimethylbenzene 95-63-6	Soil				2,34 mg/kg		
cumene 98-82-8	aqua (freshwater)		0,035 mg/l				
cumene 98-82-8	sediment (marine water)				0,322 mg/kg		
cumene 98-82-8	aqua (marine water)		0,004 mg/l				
cumene 98-82-8	sewage treatment plant (STP)		200 mg/l				
cumene 98-82-8	Soil				0,624 mg/kg		
cumene 98-82-8	sediment (freshwater)				3,22 mg/kg		
zinc oxide 1314-13-2	aqua (freshwater)		14,4 µg/l				
zinc oxide 1314-13-2	aqua (marine water)		7,2 µg/l				
zinc oxide 1314-13-2	sewage treatment plant (STP)		100 µg/l				
zinc oxide 1314-13-2	sediment (freshwater)				146,9 mg/kg		
zinc oxide 1314-13-2	sediment (marine water)				162,2 mg/kg		
zinc oxide 1314-13-2	Soil				83,1 mg/kg		

**Derived No-Effect Level (DNEL):**

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Workers	inhalation	Long term exposure - systemic effects		151 mg/m3	
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Workers	dermal	Long term exposure - systemic effects		12,5 mg/kg	
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	General population	inhalation	Long term exposure - systemic effects		32 mg/m3	
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	General population	dermal	Long term exposure - systemic effects		7,5 mg/kg	
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	General population	oral	Long term exposure - systemic effects		7,5 mg/kg	
1,2,4-trimethylbenzene 95-63-6	General population	inhalation	Acute/short term exposure - local effects		29,4 mg/m3	
1,2,4-trimethylbenzene 95-63-6	General population	dermal	Long term exposure - systemic effects		9512 mg/kg	
1,2,4-trimethylbenzene 95-63-6	Workers	inhalation	Long term exposure - systemic effects		100 mg/m3	
1,2,4-trimethylbenzene 95-63-6	General population	inhalation	Long term exposure - local effects		29,4 mg/m3	
1,2,4-trimethylbenzene 95-63-6	Workers	inhalation	Acute/short term exposure - systemic effects		100 mg/m3	
1,2,4-trimethylbenzene 95-63-6	Workers	dermal	Long term exposure - systemic effects		16171 mg/kg	
1,2,4-trimethylbenzene 95-63-6	Workers	inhalation	Acute/short term exposure - local effects		100 mg/m3	
1,2,4-trimethylbenzene 95-63-6	General population	inhalation	Long term exposure - systemic effects		29,4 mg/m3	
1,2,4-trimethylbenzene 95-63-6	Workers	inhalation	Long term exposure - local effects		100 mg/m3	
1,2,4-trimethylbenzene 95-63-6	General population	inhalation	Acute/short term exposure - systemic effects		29,4 mg/m3	
1,2,4-trimethylbenzene 95-63-6	General population	oral	Long term exposure - systemic effects		15 mg/kg	
cumene 98-82-8	Workers	inhalation	Acute/short term exposure - local effects		250 mg/m3	
cumene 98-82-8	General population	oral	Long term exposure - systemic effects		5 mg/kg	
cumene 98-82-8	General population	inhalation	Long term exposure - systemic effects		16,6 mg/m3	
cumene 98-82-8	Workers	inhalation	Long term exposure - systemic effects		100 mg/m3	
cumene 98-82-8	Workers	dermal	Long term exposure - systemic effects		15,4 mg/kg	
cumene 98-82-8	General population	dermal	Long term exposure - systemic effects		1,2 mg/kg	
zinc oxide 1314-13-2	Workers	Inhalation	Long term exposure - systemic effects		5 mg/m3	
zinc oxide 1314-13-2	Workers	dermal	Long term exposure -		83 mg/kg	



			systemic effects			
zinc oxide 1314-13-2	Workers	inhalation	Long term exposure - local effects		0,5 mg/m3	
zinc oxide 1314-13-2	General population	Inhalation	Long term exposure - systemic effects		2,5 mg/m3	
zinc oxide 1314-13-2	General population	dermal	Long term exposure - systemic effects		83 mg/kg	
zinc oxide 1314-13-2	General population	oral	Long term exposure - systemic effects		0,83 mg/kg	

**Biological Exposure Indices:**

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
1,2,4-Trimethylbenzene 95-63-6	Dimethylbenzoic acids (sum of isomers with hydrolysis)	Creatinine in urine	Sampling time period is for long-term exposures, at the end of the shift after several preceding ones./ Sampling time period is at end of exposure or at end of shift.	400 mg/g	DE BGW		
Cumene 98-82-8	iso-Propylbenzene	Blood	Sampling time: End of shift.	2 mg/l	DE BAT		
Cumene 98-82-8	2-Phenyl-2-propanol	Creatinine in urine	Sampling time: End of shift.	50 mg/g	DE BAT		
Cumene 98-82-8	2-Phenyl-2-propanol, after hydrolysis	Creatinine in urine	Sampling time: End of shift.	10 mg/g	DE BGW		

**8.2. Exposure controls:**

Engineering controls:  
Ensure good ventilation/extraction.

## Respiratory protection:

The product should only be used at workplaces with intensive ventilation/extraction.

If intensive ventilation/extraction is not possible respiratory protection equipment with ABEK P2 filter (EN 14387) should be worn.

## Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR;  $\geq$  0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

## Eye protection:

Goggles which can be tightly sealed.

Protective eye equipment should conform to EN166.

## Skin protection:

Wear protective equipment.

Protective clothing that covers arms and legs.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

Use only personal protection that's CE-labelled according to Directive 89/686/EEC (Europe) or to Regulation No. 819 of 19 August 1994 (Norway), or equivalent.

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions.

Personal protective equipment should conform to the relevant EN standard.

## SECTION 9: Physical and chemical properties

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

Delivery form	paste
Colour	black
Odor	aromatic
Physical state	solid
Melting point	Not applicable, Determination technically not possible
Solidification temperature	Not applicable, Product is a solid.
Initial boiling point	120 °C (248 °F)
Flammability	flammable
Explosive limits	Not applicable, Product is a solid.
Flash point	Not applicable, Product is a solid.
Auto-ignition temperature	Not applicable, Product is a solid.
Decomposition temperature	Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use
pH	Not applicable, Product is non-soluble (in water).
Viscosity (kinematic)	Not applicable, Product is a solid.
Viscosity, dynamic (; 20 °C (68 °F))	45.000 mPa.s no method / method unknown
Solubility (qualitative) (20 °C (68 °F); Solvent: Water)	Insoluble
Partition coefficient: n-octanol/water	Not applicable
Vapour pressure (20 °C (68 °F))	Mixture 16 hPa
Density (20 °C (68 °F))	1,53 g/cm <sup>3</sup> no method / method unknown
Relative vapour density:	Not applicable, Product is a solid.
Particle characteristics	Not applicable, mixture is a paste.

### 9.2. Other information

Other information not applicable for this product

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None if used for intended purpose.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

See section reactivity

### 10.4. Conditions to avoid

None if used for intended purpose.

### 10.5. Incompatible materials

None if used properly.

### 10.6. Hazardous decomposition products

No decomposition if used according to specifications.

## SECTION 11: Toxicological information

### General toxicological information:

An allergic reaction cannot be excluded after repeated skin contact.

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

#### Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	LD50	30.700 - 36.400 mg/kg	rat	not specified
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	LD50	> 15.000 mg/kg	rat	not specified
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LD50	3.492 mg/kg	rat	not specified
1,2,4-trimethylbenzene 95-63-6	LD50	6.000 mg/kg	rat	EU Method B.1 (Acute Toxicity (Oral))
cumene 98-82-8	LD50	2.260 mg/kg	rat	not specified
zinc oxide 1314-13-2	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)

#### Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LD50	> 3.160 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)
1,2,4-trimethylbenzene 95-63-6	LD50	> 3.440 mg/kg	rat	not specified
cumene 98-82-8	LD50	> 10.000 mg/kg	rabbit	not specified
zinc oxide 1314-13-2	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)

**Acute inhalative toxicity:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LC50	> 10,2 mg/l	vapour	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)
1,2,4-trimethylbenzene 95-63-6	LC50	18 mg/l	vapour	4 h	rat	not specified
cumene 98-82-8	Acute toxicity estimate (ATE)	21 mg/l	vapour	4 h		Expert judgement
cumene 98-82-8	LC50	< 39 mg/l	vapour	4 h	rat	not specified
cumene 98-82-8	LC50	> 17,6 mg/l	vapour	6 h	rat	not specified
zinc oxide 1314-13-2	LC50	> 5,7 mg/l	dust/mist	4 h	rat	equivalent or similar to OECD Guideline 403 (Acute Inhalation Toxicity)

**Skin corrosion/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	mildly irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
1,2,4-trimethylbenzene 95-63-6	irritating	4 h	rabbit	EU Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)
cumene 98-82-8	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
zinc oxide 1314-13-2	not irritating		rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

**Serious eye damage/irritation:**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
cumene 98-82-8	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
zinc oxide 1314-13-2	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitization:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	not sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
1,2,4-trimethylbenzene 95-63-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
cumene 98-82-8	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
zinc oxide 1314-13-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

**Germ cell mutagenicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

<b>Hazardous substances CAS-No.</b>	<b>Result</b>	<b>Type of study / Route of administration</b>	<b>Metabolic activation / Exposure time</b>	<b>Species</b>	<b>Method</b>
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	sister chromatid exchange assay in mammalian cells	with and without		equivalent or similar to OECD Guideline 479 (Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
1,2,4-trimethylbenzene 95-63-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
1,2,4-trimethylbenzene 95-63-6	negative	in vitro mammalian chromosome aberration test	with and without		EU Method B.10 (Mutagenicity)
1,2,4-trimethylbenzene 95-63-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cumene 98-82-8	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
cumene 98-82-8	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
cumene 98-82-8	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
cumene 98-82-8	negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro	without		OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)
zinc oxide 1314-13-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
zinc oxide 1314-13-2	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
zinc oxide 1314-13-2	ambiguous	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	negative	inhalation		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
1,2,4-trimethylbenzene 95-63-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
cumene 98-82-8	negative	inhalation: gas		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
zinc oxide 1314-13-2	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

**Carcinogenicity**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
zinc oxide 1314-13-2	not carcinogenic	oral: drinking water	1 y daily	mouse	male/female	not specified

**Reproductive toxicity:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Test type	Route of application	Species	Method
1,2,4-trimethylbenzene 95-63-6	NOAEL P 500 ppm NOAEL F1 500 ppm NOAEL F2 500 ppm	multigeneration study	inhalation: vapour	rat	OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)
zinc oxide 1314-13-2	NOAEL P 7,5 mg/kg NOAEL F1 15 mg/kg	Two generation study	oral: gavage	rat	equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

**STOT-single exposure:**

No data available.

**STOT-repeated exposure:**

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	NOAEL 600 mg/kg	oral: feed	90 d 7 days/week	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1,2,4-trimethylbenzene 95-63-6	NOAEL 600 mg/kg	oral: gavage	90-91 d 5 d/w	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
1,2,4-trimethylbenzene 95-63-6	NOAEL 1,230 mg/l	inhalation: vapour	3 months 6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
1,2,4-trimethylbenzene 95-63-6	NOAEL 1,830 mg/l	inhalation: vapour	12 months 6 h/d, 5 d/week	rat	equivalent or similar to OECD Guideline 452 (Chronic Toxicity Studies)
cumene 98-82-8	NOAEL > 535,8 mg/kg	oral: feed	28 d daily	rat	not specified
cumene 98-82-8	NOAEL 125 ppm	inhalation: vapour	14 w 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)
zinc oxide 1314-13-2	NOAEL 31,52 mg/kg	oral: feed	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
zinc oxide 1314-13-2	NOAEL 1.5 mg/m <sup>3</sup>	inhalation	3 m 6 h/d, 5 d/w	rat	OECD Guideline 413 (Subchronic Inhalation Toxicity: 90-Day)

**Aspiration hazard:**

The mixture is classified based on Viscosity data.

<b>Hazardous substances CAS-No.</b>	<b>Viscosity (kinematic) Value</b>	<b>Temperature</b>	<b>Method</b>	<b>Remarks</b>
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	0,8 mm <sup>2</sup> /s	40 °C	calculated	

**11.2 Information on other hazards**

not applicable

## SECTION 12: Ecological information

### General ecological information:

Do not empty into drains, soil or bodies of water.

### 12.1. Toxicity

#### Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	LC50	Toxicity > Water solubility	96 h	Danio rerio	OECD Guideline 203 (Fish, Acute Toxicity Test)
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	NOEC	Toxicity > Water solubility	33 d	Danio rerio	OECD Guideline 210 (fish early lite stage toxicity test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	LL50	10 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
1,2,4-trimethylbenzene 95-63-6	LC50	7,72 mg/l	96 h	Pimephales promelas	OECD Guideline 203 (Fish, Acute Toxicity Test)
cumene 98-82-8	LC50	4,8 mg/l	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
zinc oxide 1314-13-2	LC50	0,142 mg/l	96 h	Thymallus arcticus	OECD Guideline 203 (Fish, Acute Toxicity Test)
zinc oxide 1314-13-2	NOEC	0,44 mg/l	72 d	Oncorhynchus mykiss	other guideline:

#### Toxicity (aquatic invertebrates):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	EC50	Toxicity > Water solubility	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	EL50	4,5 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
1,2,4-trimethylbenzene 95-63-6	EC50	3,6 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
cumene 98-82-8	EC50	2,14 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
zinc oxide 1314-13-2	EC50	1 mg/l	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

#### Chronic toxicity (aquatic invertebrates):

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	NOEC	Toxicity > Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	NOELR	2,6 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
cumene 98-82-8	NOEC	0,35 mg/l	21 day	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
zinc oxide	NOEC	0,058 mg/l	21 d	Daphnia magna	OECD 211 (Daphnia



1314-13-2					magna, Reproduction Test)
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**Toxicity (Algae):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	EC50	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	NOEC	Toxicity > Water solubility	72 h	Pseudokirchneriella subcapitata (reported as Raphidocelis subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	EL50	3,1 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	NOELR	0,5 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC50	2,01 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
cumene 98-82-8	EC10	1,35 mg/l	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	NOEC	0,017 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
zinc oxide 1314-13-2	EC50	0,17 mg/l	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Toxicity (microorganisms):**

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Exposure time	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	EC0	> 10.000 mg/l	30 min		not specified
cumene 98-82-8	EC10	211 mg/l	24 h		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
zinc oxide 1314-13-2	IC50	5,2 mg/l	3 h	not specified	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

**12.2. Persistence and degradability**

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	readily biodegradable	aerobic	77 %	28 d	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
1,2,4-trimethylbenzene 95-63-6	not readily biodegradable.	not specified	> 0 - < 60 %	28 d	OECD 301 A - F
cumene 98-82-8	readily biodegradable	aerobic	86 %	28 d	ISO 10708 (BODIS-Test)

**12.3. Bioaccumulative potential**

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	74,4			Lepomis macrochirus	other guideline:
cumene 98-82-8	35,5			Carassius auratus	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)

#### 12.4. Mobility in soil

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	2,13 - 4,58		QSAR (Quantitative Structure Activity Relationship)
1,2,4-trimethylbenzene 95-63-6	3,63		other guideline:
cumene 98-82-8	3,55	23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)

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

The table below presents the data of the classified substances present in the mixture.

Hazardous substances CAS-No.	PBT / vPvB
Barite (Ba(SO <sub>4</sub> )) 13462-86-7	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.
Solvent naphtha (petroleum), light arom., <0.1% Benzene 64742-95-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
1,2,4-trimethylbenzene 95-63-6	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
cumene 98-82-8	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
zinc oxide 1314-13-2	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not be conducted for inorganic substances.

#### 12.6. Endocrine disrupting properties

not applicable

#### 12.7. Other adverse effects

No data available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product disposal:

In consultation with the responsible local authority, must be subjected to special treatment.

Waste code

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

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## SECTION 14: Transport information

### 14.1. UN number or ID number

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

### 14.2. UN proper shipping name

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

### 14.3. Transport hazard class(es)

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

### 14.4. Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

### 14.5. Environmental hazards

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

### 14.6. Special precautions for user

ADR	not applicable
RID	not applicable
ADN	not applicable
IMDG	not applicable
IATA	not applicable

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

not applicable

## SECTION 15: Regulatory information

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

Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):	Not applicable
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):	Not applicable
Persistent organic pollutants (Regulation (EU) 2019/1021):	Not applicable
VOC content (2010/75/EU)	13,3 %

**VOC Paints and Varnishes (EU):**

Product (sub)category:

This product is not a subject of the Directive 2004/42/EC

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**National regulations/information (Germany):**

WGK:

WGK 2: significantly water endangering (Ordinance on facilities for handling substances that are hazardous to water (AwSV) )  
Classification according to AwSV, Annex 1 (5.2)

Storage class according to TRGS 510:

11

General remarks (DE):

This product is in scope of the German regulation  
"Chemikalien Verbots Verordnung"

## SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H350 May cause cancer.  
 H351 Suspected of causing cancer.  
 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.

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (REACH Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria

### Further information:

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