

Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

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

1.1. Product identifier

Zerosil soft 5:1 with color-indicator Comp. A

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

Use of the substance/preparation

Dental impression material on the base of vinylpolysiloxane

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.com

person responsible

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Addition-vulcanising 2-component silicone

Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Hazardous ingredients**Cristobalite**

CAS No.	14464-46-1		
EINECS no.	238-455-4		
Concentration	>=	50	%
Classification (Regulation (EC) No. 1272/2008)	STOT RE 1		H372

Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics

EINECS no.	920-114-2		
Registration no.	01-2119459347-30		
Concentration	>=	1	< 10 %
Classification (Regulation (EC) No. 1272/2008)	Asp. Tox. 1		H304

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

No special measures required

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings**Non suitable extinguishing media**



Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

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

Observe the usual precautions for handling chemicals. For personal protection see Section 8.

Advice on protection against fire and explosion

No special measures required.

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

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**



Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Do not eat, drink or smoke during work time.
Wash hands before breaks and after work. Avoid contact with eyes.

Respiratory protection

Not necessary.

Hand protection

Not necessary.

Eye protection

Not necessary.

Body protection

Clothing as usual in the chemical industry.

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

Physical state	liquid, viscous	
Colour	white	
Odour	characteristic	
Melting point		
Remarks	not determined	
Freezing point		
Remarks	not determined	
Boiling point or initial boiling point and boiling range		
Value	> 300	°C
Flammability		
not determined		
Upper and lower explosive limits		
Remarks	not determined	
Flash point		
Value	> 130	°C
Method	closed cup	
Ignition temperature		
Remarks	not determined	
Decomposition temperature		
Remarks	not determined	
pH value		
Remarks	not determined	
Viscosity		
Remarks	not determined	
Solubility(ies)		
Remarks	not determined	
Partition coefficient n-octanol/water (log value)		



Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,47 g/cm³
Temperature 20 °C**Relative vapour density**

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks virtually insoluble

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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

Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Acute oral toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rat	
LD50	> 5000	mg/kg
Method	OECD 401	

Acute dermal toxicity

Remarks	Based on available data, the classification criteria are not met.
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Acute dermal toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	

Acute inhalational toxicity

ATE	> 20	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

Acute inhalative toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rat	
LC50	> 5266	mg/m ³
Duration of exposure	4	h
Administration/Form	Vapors	
Method	OECD 403	

Skin corrosion/irritation

Remarks	Based on available data, the classification criteria are not met.
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Serious eye damage/irritation

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

Remarks	Based on available data, the classification criteria are not met.
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Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

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

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT)**Single exposure**

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

Remarks	Based on available data, the classification criteria are not met.
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Specific Target Organ Toxicity (STOT) (Components)**Cristobalite****Repeated exposure**

evaluation	Causes damage to organs through prolonged or repeated exposure
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Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Route of exposure inhalative

Aspiration hazard

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

Aspiration hazard (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**Species rainbow trout (*Oncorhynchus mykiss*)

LC50 87556 mg/l

Duration of exposure 96 h

Remarks The details of the toxic effect relate to the nominal concentration.

Daphnia toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**Species *Daphnia magna*

EC50 1000 mg/l

Duration of exposure 48 h

Remarks The details of the toxic effect relate to the nominal concentration.

Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromaticsSpecies *Daphnia magna*

NOEC 5 mg/l

Duration of exposure 28 d

Remarks The details of the toxic effect relate to the nominal concentration.

12.2. Persistence and degradability**General information**

not determined

Ready degradability (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Value 74 %

Duration of test 28 d

12.3. Bioaccumulative potential**General information**

not determined



Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Partition coefficient n-octanol/water (log value)

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances

The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects**General information**

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Must not be disposed together with household garbage.

Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-



Trade name: Zerosil soft 5:1 with color-indicator Comp. A

Substance number: 45211

Version: 1 / GB

Date revised: 30.01.2023

Replaces Version: - / GB

Print date: 30.01.2023

Label			
14.4. Packing group		-	-
14.5. Environmental hazards		no	-

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H304 May be fatal if swallowed and enters airways.
H372 Causes damage to organs through prolonged or repeated exposure.

CLP categories listed in Chapter 3

Asp. Tox. 1 Aspiration hazard, Category 1
STOT RE 1 Specific target organ toxicity - repeated exposure, Category 1

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

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

1.1. Product identifier

Zerosil soft 5:1 with color indicator Comp. B

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

Use of the substance/preparation

Dental impression material on the base of vinylpolysiloxane

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

59423 Unna

Telephone no.

+49 2303 8807-0

Fax no.

+49 2303 8807-29

Information provided

Department Research & Development: Fax: +49 2303 8807-562

by / telephone

E-mail address of

sicherheitsdatenblatt@dreve.com

person responsible

for this SDS

1.4. Emergency telephone number

Henkel Fire Department / 24h-Emergency-Contact-No.: +49 211 797-3350

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

Addition-vulcanising 2-component silicone



Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

Hazardous ingredients**Cristobalite**

CAS No.	14464-46-1		
EINECS no.	238-455-4		
Concentration	>=	50	%
Classification (Regulation (EC) No. 1272/2008)	STOT RE 1		H372

Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics

EINECS no.	920-114-2		
Registration no.	01-2119459347-30		
Concentration	>=	1	< 10 %
Classification (Regulation (EC) No. 1272/2008)	Asp. Tox. 1		H304

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

No special measures required

After inhalation

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed**Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Extinguishing measures to suit surroundings**Non suitable extinguishing media**



Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Avoid contact with skin, eyes and clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Clean contaminated floors and objects thoroughly, observing environmental regulations.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

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

Observe the usual precautions for handling chemicals. For personal protection see Section 8.

Advice on protection against fire and explosion

No special measures required.

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

Store product in closed containers.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Other information**

Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

Contains no substances with occupational exposure limit values.

8.2. Exposure controls

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Do not eat, drink or smoke during work time.
Wash hands before breaks and after work. Avoid contact with eyes.

Respiratory protection

Not necessary.

Hand protection

Not necessary.

Eye protection

Not necessary.

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	liquid, viscous
Colour	Colour change from purple to orange
Odour	characteristic
Melting point	
Remarks	not determined
Freezing point	
Remarks	not determined
Boiling point or initial boiling point and boiling range	
Value	> 300 °C
Flammability	
Remarks	not determined
Upper and lower explosive limits	
Remarks	not determined
Flash point	
Value	> 130 °C
Method	closed cup
Ignition temperature	
Remarks	not determined
Decomposition temperature	
Remarks	not determined
pH value	
Remarks	not determined
Viscosity	
Remarks	not determined
Solubility(ies)	
Remarks	not determined
Partition coefficient n-octanol/water (log value)	



Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,39 g/cm³
Temperature 20 °C**Relative vapour density**

Remarks not determined

9.2. Other information**Odour threshold**

Remarks not determined

Evaporation rate (ether = 1) :

Remarks not determined

Solubility in water

Remarks virtually insoluble

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

Other information

None known

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

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

No hazardous reactions known.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

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



Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

Acute oral toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rat		
LD50	>	5000	mg/kg
Method	OECD 401		

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rabbit		
LD50	>	2000	mg/kg
Method	OECD 402		

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rat		
LC50	>	5266	mg/m ³
Duration of exposure		4	h
Administration/Form	Vapors		
Method	OECD 403		

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Sensitization

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

Subacute, subchronic, chronic toxicity

Remarks not determined

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Specific Target Organ Toxicity (STOT) (Components)**Cristobalite****Repeated exposure**

evaluation	Causes damage to organs through prolonged or repeated exposure Route of exposure inhalative
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Aspiration hazard

Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

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

Aspiration hazard (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Harmful: may cause lung damage if swallowed.

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	87556		mg/l
Duration of exposure	96	h	
Remarks	The details of the toxic effect relate to the nominal concentration.		

Daphnia toxicity (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Species	Daphnia magna		
EC50	1000		mg/l
Duration of exposure	48	h	
Remarks	The details of the toxic effect relate to the nominal concentration.		

Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics

Species	Daphnia magna		
NOEC	5		mg/l
Duration of exposure	28	d	
Remarks	The details of the toxic effect relate to the nominal concentration.		

12.2. Persistence and degradability**General information**

not determined

Ready degradability (Components)**Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics**

Value	74		%
Duration of test	28	d	

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined



Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

12.4. Mobility in soil

General information

not determined

12.5. Results of PBT and vPvB assessment

General information

not determined

Results of PBT and vPvB assessment

The product contains no PBT substances
The product contains no vPvB substances.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the environment

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

General information

not determined

General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Must not be disposed together with household garbage.
Dispose of waste according to applicable legislation.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)		-	-
Label			

Trade name: Zerosil soft 5:1 with color indicator Comp. B

Substance number: 45212

Version: 1 / GB

Date revised: 31.01.2023

Replaces Version: - / GB

Print date: 31.01.2023

14.4. Packing group		-	-
14.5. Environmental hazards		no	-

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H304 May be fatal if swallowed and enters airways.
H372 Causes damage to organs through prolonged or repeated exposure.

CLP categories listed in Chapter 3

Asp. Tox. 1 Aspiration hazard, Category 1
STOT RE 1 Specific target organ toxicity - repeated exposure, Category 1

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.