

Trade name: MaxiFresh

Substance number: 1361DENTAL

Version: 2 / GB

Date revised: 12.03.2025

Replaces Version: 1 / GB

Print date: 12.03.2025

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

1.1. Product identifier

MaxiFresh

UFI

UFI: 00CC-A0R6-G00W-XDF7

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

Use of the substance/preparation

Cleaning tablet for external cleaning of dental splints

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Dentamid GmbH

Max-Planck-Straße 31

DE-59423 Unna

Telephone no. +49 2303 8807-0

Fax no. +49 2303 8807-29

Information provided by / telephone Department Research & Development: Fax: +49 2303 8807-562

E-mail address of person responsible for this SDS sicherheitsdatenblatt@dreve.com

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

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1B H314

Eye Dam. 1 H318

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms





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Signal word

Danger

Hazard statements

H302 Harmful if swallowed.
 H314 Causes severe skin burns and eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER or doctor.
 P501.1 Dispose of contents/container to industrial incineration plant.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Sodium carbonate peroxohydrate; Sodium dodecyle sulphate; Pentapotassium bis(peroxymonosulphate) bis(sulphate)
 EUH208 Contains dipotassium peroxodisulphate; Mentha arvensis, extract. May produce an allergic reaction.

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**Hazardous ingredients *******Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

CAS No.	70693-62-8		
EINECS no.	274-778-7		
Registration no.	01-2119485567-22		
Concentration	>= 25	< 49	%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4	H302	
	Skin Corr. 1B	H314	
	Eye Dam. 1	H318	
	Aquatic Chronic 3	H412	

ATE	oral	500	mg/kg
ATE	inhalative, Dust/Mist	3,7	mg/l

Sodium carbonate

CAS No.	497-19-8		
EINECS no.	207-838-8		
Registration no.	01-2119485498-19		
Concentration	>= 10	< 25	%
Classification (Regulation (EC) No. 1272/2008)			



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Eye Irrit. 2 H319

Citric acid anhydrous

CAS No. 77-92-9
 EINECS no. 201-069-1
 Registration no. 01-2119457026-42
 Concentration ≥ 10 < 20 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319
 STOT SE 3 H335

Sodium carbonate peroxohydrate

CAS No. 15630-89-4
 EINECS no. 239-707-6
 Registration no. 01-2119457268-30
 Concentration ≥ 3 < 7,5 %
 Classification (Regulation (EC) No. 1272/2008)
 Ox. Sol. 3 H272
 Acute Tox. 4 H302
 Eye Dam. 1 H318

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Dam. 1 H318 ≥ 25 %
 Eye Irrit. 2 H319 $\geq 7,5 < 25$ %
 ATE oral 1.034 mg/kg

Sodium dodecyle sulphate

CAS No. 151-21-3
 EINECS no. 205-788-1
 Registration no. 01-2119489461-32
 Concentration ≥ 1 < 2,1 %
 Classification (Regulation (EC) No. 1272/2008)
 Flam. Sol. 2 H228
 Eye Dam. 1 H318
 Acute Tox. 4 H302
 Acute Tox. 4 H332
 Skin Irrit. 2 H315
 STOT SE 3 H335
 Aquatic Chronic 3 H412

ATE oral 1.200 mg/kg
 cATpE inhalative, Dust/Mist 1,5 mg/l

Mentha arvensis, extract

CAS No. 90063-97-1
 EINECS no. 290-058-5
 Registration no. 01-2119973492-30
 Concentration $\geq 0,1$ < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Eye Irrit. 2 H319
 Skin Sens. 1 H317
 Aquatic Chronic 2 H411
 Acute Tox. 4 H302

dipotassium peroxodisulphate

CAS No. 7727-21-1

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EINECS no.	231-781-8			
Registration no.	01-2119495676-19			
Concentration	>= 0,1	<	1	%
Classification (Regulation (EC) No. 1272/2008)				
	Ox. Sol. 3		H272	
	Acute Tox. 4		H302	
	Skin Irrit. 2		H315	
	Eye Irrit. 2		H319	
	Resp. Sens. 1		H334	
	Skin Sens. 1		H317	
	STOT SE 3		H335	

Further ingredients**Sodium hydrogencarbonate**

CAS No.	144-55-8			
EINECS no.	205-633-8			
Registration no.	01-2119457606-32			
Concentration	>= 10	<	25	%
Advice: [3]				

Note

[3] Substance with occupational exposure limits

Other information

According Regulation on detergents (EC) No 648/2004 following substances shall be listed: Colorants, non-ionic surfactants, perfumes: <5,0%

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

Remove contaminated, soaked clothing immediately and dispose of safely.

After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

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

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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

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

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Knock down dust with water spray jet. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Pick up mechanically. Avoid raising dust. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the 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

Avoid skin and eye contact. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Provide solvent-resistant and impermeable floor.

Hints on storage assembly

Do not store together with foodstuffs.

Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters**Exposure limit values****Sodium hydrogencarbonate**

List	WEL	
inhalable fraction		
Value	10	mg/m ³

Sodium hydrogencarbonate

List	WEL	
respirable fraction		
Value	4	mg/m ³

Other information

Contains no substances with occupational exposure limit values.

Derived No/Minimal Effect Levels (DNEL/DMEL)**Sodium carbonate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	5	mg/m ³

Sodium carbonate peroxohydrate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	4,4	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	



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Mode of action	Local effects	
Concentration	12,8	mg/cm ²

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Local effects	
Concentration	6,4	mg/cm ²

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	2,2	mg/m ³

Sodium dodecyle sulphate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	24	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2440	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4060	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	85	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	285	mg/m ³

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Type of value	Derived No Effect Level (DNEL)
Reference group	Worker



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Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,112	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,056	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1	mg/kg/d

Mentha arvensis, extract

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	35,3	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	5	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	8,7	mg/m ³
Type of value	Derived No Effect Level (DNEL)	



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Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	2,5	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	2,5	mg/kg/d

dipotassium peroxodisulphate

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,824	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	12,7	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,421	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	4,6	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	0,46	mg/kg/d

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	1,37	mg/kg/d

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Predicted No Effect Concentration (PNEC)**Sodium dodecyle sulphate**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,176	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,018	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	6,97	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,697	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,29	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1,35	mg/l

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Type of value	PNEC	
Type	Freshwater	
Concentration	0,022	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,002	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	1	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,08	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,008	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,03	mg/kg

dipotassium peroxodisulphate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,518	mg/l

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Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,763	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,052	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	3,6	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	2,03	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,203	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,1	mg/kg

8.2. Exposure controls

General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation; Dust mask

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Hand protection must comply with EN 374.

Appropriate Material Butyl rubber

Eye protection

Tightly fitting safety glasses

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	Tablets
Colour	bluish white
Odour	characteristic

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Melting point

Remarks not determined

Freezing point

Remarks not determined

Boiling point or initial boiling point and boiling range

Remarks not determined

Flammability

evaluation not determined

Upper and lower explosive limits

Remarks not determined

Flash point

Remarks Not applicable

Auto-ignition temperature

Remarks not determined

Decomposition temperature

Remarks not determined

Self Accelerating Decomposition / Polymerization Temperature (SADT/SAPT)

Value > 65 °C

pH valueValue 6 to 8
Temperature 25 °C**Viscosity**

Remarks not determined

Solubility(ies)

Remarks not determined

Partition coefficient n-octanol/water (log value)

Remarks not determined

Vapour pressure

Remarks not determined

Density and/or relative densityValue 1,6 g/cm³**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 easily soluble

Explosive properties

evaluation no

Oxidising properties

Remarks not determined

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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

Irritant gases/vapours, Toxic gases/vapours

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute oral toxicity**

ATE	1.447,46	mg/kg
	16	
Method	calculated value according to GHS (e.g see UN GHS)	

Acute oral toxicity (Components)**Mentha arvensis, extract**

Species	rat	
LD50	1240	mg/kg

Citric acid anhydrous

Species	mouse	
LD50	5400	mg/kg
Method	OECD 401	

Sodium carbonate

Species	rat	
LD50	2800	mg/kg

Sodium carbonate peroxohydrate

Species	rat	
LD50	1034	mg/kg

Sodium dodecyle sulphate

Species	rat	
LD50	1200	mg/kg
Method	OECD 401	

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	rat	
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LD50 500 mg/kg
Method OECD 423

Sodium hydrogencarbonate

Species rat
LD50 > 4000 mg/kg

dipotassium peroxodisulphate

Species rat (male)
LD0 300 mg/kg
Remarks Test conducted with a similar formulation.

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Mentha arvensis, extract**

Species rabbit
LD50 > 5000 mg/kg

Citric acid anhydrous

Species rat
LD50 > 2000 mg/kg
Method OECD 402

Sodium carbonate

Species rabbit
LD50 > 2000 mg/kg

Sodium carbonate peroxohydrate

Species rabbit
LD50 > 2000 mg/kg

Sodium dodecyle sulphate

Species rat
LD50 > 2000 mg/kg
Method OECD 402
Remarks Test conducted with a similar formulation.

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species rat
LD50 > 2000 mg/kg
Method OECD 402

dipotassium peroxodisulphate

Species rat (male)
LD0 2000 mg/kg
Remarks Test conducted with a similar formulation.

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**

Species rat
LC50 3,7 mg/l
Duration of exposure 4 h
Administration/Form Dust/Mist
Method OECD 403

dipotassium peroxodisulphate

Species rat (male)
LC0 2950 mg/m³
Duration of exposure 4 h
Administration/Form Dust/Mist

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Remarks Test conducted with a similar formulation.

Skin corrosion/irritation

evaluation corrosive
Remarks The classification criteria are met.

Skin corrosion/irritation (Components)**Mentha arvensis, extract**

evaluation slightly irritant
Source ECHA

Sodium dodecyle sulphate

Species rabbit
evaluation irritant
Method OECD 404

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species rabbit
evaluation corrosive
Method OECD 404

dipotassium peroxodisulphate

Species rabbit
evaluation irritant
Method OECD 404
Remarks Test conducted with a similar formulation.

Serious eye damage/irritation

evaluation corrosive
Remarks The classification criteria are met.

Serious eye damage/irritation (Components)**Mentha arvensis, extract**

evaluation irritant - risk of serious damage to eyes
Source ECHA

Citric acid anhydrous

Species rabbit
evaluation irritant
Method OECD 405

Sodium carbonate

evaluation irritant

Sodium carbonate peroxohydrate

Species rabbit
evaluation corrosive
Method OECD 405

Sodium dodecyle sulphate

Species rabbit
evaluation corrosive
Method OECD 405

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species rabbit
evaluation corrosive
Method OECD 405

dipotassium peroxodisulphate

Species rabbit
evaluation irritant
Method OECD 405
Remarks Test conducted with a similar formulation.

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Sensitization

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

Sensitization (Components)**Mentha arvensis, extract**

evaluation sensitizing
Source ECHA

dipotassium peroxodisulphate

Route of exposure dermal
Species guinea pig
evaluation sensitizing
Method OECD 406
Remarks Test conducted with a similar formulation.

dipotassium peroxodisulphate

Route of exposure inhalative
evaluation May cause sensitization by inhalation.
Remarks Test conducted with a similar formulation.

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)**Sodium dodecyle sulphate****Single exposure**

evaluation May cause respiratory irritation.

Citric acid anhydrous**Single exposure**

evaluation May cause respiratory irritation.

dipotassium peroxodisulphate

evaluation May cause respiratory irritation.
Route of exposure inhalative

Aspiration hazard

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

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.

Experience in practice

Inhalation of dusts may irritate the respiratory tract.

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Other information

No toxicological data are available.

SECTION 12: Ecological information

12.1. Toxicity**General information**

not determined

Fish toxicity (Components)**Mentha arvensis, extract**

LC50	3,01		mg/l
Duration of exposure	96	h	
Method	QSAR		

Citric acid anhydrous

Species	golden orfe (<i>Leuciscus idus</i>)		
LC50	440		mg/l
Duration of exposure	48	h	
Method	OECD 203		

Sodium carbonate

Species	Bluegill (<i>Lepomis macrochirus</i>)		
LC50	300		mg/l
Duration of exposure	96	h	

Sodium carbonate peroxohydrate

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	70,7		mg/l
Duration of exposure	96	h	

Sodium dodecyle sulphate

Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	29		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	53		mg/l
Duration of exposure	96	h	
Method	OECD 203		

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	Cyprinodon variegatus		
NOEC	222		µg/l
Duration of exposure	37	d	
Method	OECD 210		

Sodium hydrogencarbonate

Species	Bluegill (<i>Lepomis macrochirus</i>)		
LC50	7100		mg/l
Duration of exposure	96	h	

dipotassium peroxodisulphate

LC50	76,3		mg/l
Duration of exposure	96	h	
Remarks	Test conducted with a similar formulation.		

Daphnia toxicity (Components)

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Mentha arvensis, extract

EC50 2,43
 Duration of exposure 48 h
 Method QSAR

Citric acid anhydrous

Species Daphnia magna
 LC50 1535 mg/l
 Duration of exposure 24 h

Sodium carbonate

Species Ceriodaphnia spec
 EC50 200 to 227 mg/l
 Duration of exposure 48 h

Sodium carbonate peroxohydrate

Species Daphnia pulex
 EC50 4,9 mg/l
 Duration of exposure 48 h

Sodium dodecyle sulphate

Species Ceriodaphnia spec
 LC50 5,55 mg/l
 Duration of exposure 48 h

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species Daphnia magna
 EC50 3,5 mg/l
 Duration of exposure 48 h
 Method OECD 202

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species Mysidopsis bahia
 NOEC 267 µg/l
 Duration of exposure 96 h

Sodium hydrogencarbonate

Species Daphnia magna
 EC50 4100 mg/l
 Duration of exposure 48 h

dipotassium peroxodisulphate

EC50 120 mg/l
 Duration of exposure 48 h
 Remarks Test conducted with a similar formulation.

dipotassium peroxodisulphate

Species Daphnia magna
 NOEC 20,8 mg/l
 Duration of exposure 21 d
 Method OECD 211
 Remarks Test conducted with a similar formulation.

Algae toxicity (Components)**Mentha arvensis, extract**

EC50 2,63 mg/l
 Duration of exposure 96 h
 Source ECHA

Citric acid anhydrous

Species Scenedesmus quadricauda
 NOEC 425 mg/l
 Duration of exposure 8 d

Sodium dodecyle sulphate

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Species	Scenedesmus subspicatus	
NOEC	30	mg/l
Duration of exposure	72	h
Method	DIN 38412 / Part 9	

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	Pseudokirchneriella subcapitata	
ErC50	> 1	mg/l
Duration of exposure	72	h
Method	OECD 201	

dipotassium peroxodisulphate

EC50	320	mg/l
Duration of exposure	72	h
Remarks	Test conducted with a similar formulation.	

Bacteria toxicity (Components)**Sodium carbonate peroxohydrate**

Species	activated sludge	
EC50	466	mg/l
Duration of exposure	30	min
Remarks	Test conducted with a similar formulation.	

Sodium dodecyle sulphate

Species	activated sludge	
EC50	135	mg/l
Duration of exposure	3	h

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	activated sludge	
EC50	100	mg/l
Duration of exposure	3	h
Method	OECD 209	

dipotassium peroxodisulphate

Species	Pseudomonas putida	
EC10	36	mg/l
Duration of exposure	18	h
Remarks	Test conducted with a similar formulation.	

12.2. Persistence and degradability**General information**

not determined

Biodegradability (Components)**Mentha arvensis, extract**

Value	> 60
evaluation	Readily biodegradable (according to OECD criteria)
Source	ECHA

Citric acid anhydrous

evaluation	Readily biodegradable (according to OECD criteria)
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Sodium dodecyle sulphate

Value	95,8	%
Duration of test	28	d
evaluation	Readily biodegradable (according to OECD criteria)	
Method	OECD 301B / ISO 9439 / EEC 84/449 C5	

12.3. Bioaccumulative potential**General information**

not determined

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Partition coefficient n-octanol/water (log value)

Remarks not determined

Octanol/water partition coefficient (log Pow) (Components)**Mentha arvensis, extract**

log Pow	2,73	to	6,99
Temperature	25	°C	
Source	ECHA		

Citric acid anhydrous

log Pow	-1,8	to	-1,6
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Sodium dodecyle sulphate

log Pow	<=	-2,03	
Temperature	20	°C	

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

log Pow	<	0,3	
Temperature	20	°C	
Method	OECD 117		

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.

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SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	3261	3261	3261
14.2. UN proper shipping name	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate))
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 kg	1 kg	
Transport category	2		
14.5. Environmental hazards	-		
Tunnel restriction code	E		

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Aquatic Chronic 3	H412

Calculation method
Calculation method
Calculation method
Calculation method

Hazard statements listed in Chapter 2/3

H228	Flammable solid.
H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.

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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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Sol. 2	Flammable solid, Category 2
Ox. Sol. 3	Oxidising solid, Category 3
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

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.