

Trade name: OtoVita Cleaning Tablets

Substance number: 1358X1

Version: 2 / GB

Date revised: 29.10.2024

Replaces Version: 1 / GB

Print date: 29.10.2024

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

1.1. Product identifier

OtoVita Cleaning Tablets

UFI

UFI: 3RE-1-V0EE-A00V-FPR3

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

Use of the substance/preparation

Disinfectant of earmolds

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

Dreve Otoplastik GmbH

Max-Planck-Straße 31

DE-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

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 Dinatriumcarbonate, compound with hydrogen peroxide (2:3); 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 < 45 %
 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 \geq 10 < 20 %
 Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319
 STOT SE 3 H335

Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

CAS No. 15630-89-4
 EINECS no. 239-707-6
 Registration no. 01-2119457268-30
 Concentration \geq 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 \geq 25 %
 Eye Irrit. 2 H319 \geq 7,5 < 25 %
 ATE oral 1.034 mg/kg

Denatonium benzoate

CAS No. 3734-33-6
 EINECS no. 223-095-2
 Registration no. 01-2120102843-65
 Concentration \geq 0,1 < 0,57 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Acute Tox. 2 H330
 Eye Dam. 1 H318

ATE inhalative, Dust/Mist 0,2 mg/l

Cetalkonium chloride

CAS No. 204-526-3
 EINECS no. 122-18-9
 Registration no. 01-2120764433-54
 Concentration \geq 0,25 < 1 %
 Classification (Regulation (EC) No. 1272/2008)
 Acute Tox. 4 H302
 Acute Tox. 4 H312
 Skin Corr. 1B H314
 Eye Dam. 1 H318
 Aquatic Acute 1 H400
 Aquatic Chronic 1 H410

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)



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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
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 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



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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

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. Avoid inhalation of dusts.

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.



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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

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	
inhale 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

Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

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	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	
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

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

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	0,112	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)	
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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)	
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



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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

Predicted No Effect Concentration (PNEC)**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



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



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Colour	bluish white
Odour	characteristic
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	
Value	150 °C
Decomposition temperature	
Remarks	No decomposition if used as prescribed.
pH value	
Value	6 to 8
Concentration/H ₂ O	appr. 3,5 %
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 density	
Value	1,6 g/cm ³
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	easily soluble
Explosive properties	
evaluation	no
Oxidising properties	



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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

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 1.500,90 mg/kg
89

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**Dinatriumcarbonate, compound with hydrogen peroxide (2:3)**Species rat
LD50 1034 mg/kg**Pentapotassium bis(peroxymonosulphate) bis(sulphate)**Species rat
LD50 500 mg/kg
Method OECD 423**Cetalkonium chloride**



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Species	rat		
LD50		1300	mg/kg

Sodium hydrogencarbonate

Species	rat		
LD50	>	4000	mg/kg

Denatonium benzoate

Species	rat (female)		
LD50		648	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.
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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

Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

Species	rabbit		
LD50	>	2000	mg/kg

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	rat		
LD50	>	2000	mg/kg
Method	OECD 402		

Cetalkonium chloride

Species	rat		
LD50		1300	mg/kg

Denatonium benzoate

Species	rabbit		
LD50	>	2000	mg/kg

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.
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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		



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Denatonium benzoate

Species	rat		
LC50	0,2		mg/l
Duration of exposure	4	h	
Administration/Form	Dust/Mist		

dipotassium peroxodisulphate

Species	rat (male)		
LC0	2950		mg/m ³
Duration of exposure	4	h	
Administration/Form	Dust/Mist		
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

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	rabbit
evaluation	corrosive
Method	OECD 404

Cetalkonium chloride

Species	mouse
evaluation	corrosive
Remarks	Test conducted with a similar formulation.

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
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Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

Species	rabbit
evaluation	corrosive
Method	OECD 405

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

Species	rabbit
evaluation	corrosive
Method	OECD 405



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Cetalkonium chloride

Species rabbit
 evaluation corrosive
 Remarks Test conducted with a similar formulation.

Denatonium benzoate

Species rabbit
 evaluation corrosive

dipotassium peroxodisulphate

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

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)**Citric acid anhydrous****Single exposure**

evaluation May cause respiratory irritation.

dipotassium peroxodisulphate

evaluation May cause respiratory irritation.
 Route of exposure inhalative

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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.

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	

Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

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

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	

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Denatonium benzoate

Species	zebra fish (Brachydanio rerio)		
LC50	>	100	mg/l
Duration of exposure	96	h	
Method	OECD 203		

dipotassium peroxodisulphate

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

Daphnia toxicity (Components)**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	

Dinatriumcarbonate, compound with hydrogen peroxide (2:3)

Species	Daphnia pulex		
EC50	4,9	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	

Cetalkonium chloride

Species	Daphnia magna		
EC50	0,22	mg/l	
Duration of exposure	24	h	
Method	OECD 202		

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		

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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	

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

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

Cetalkonium chloride

Species	Chlorella vulgaris		
EC50	0,161		mg/l
Duration of exposure	96	h	

Denatonium benzoate

Species	Chlorella vulgaris		
EC50	281,56		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)**Dinatriumcarbonate, compound with hydrogen peroxide (2:3)**

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

Pentapotassium bis(peroxymonosulphate) bis(sulphate)

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

Cetalkonium chloride

EC50	0,22		mg/l
Duration of exposure	30	min	

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)



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Mentha arvensis, extract

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

Citric acid anhydrous

Value	98		%
Duration of test	28	d	
evaluation			Readily biodegradable (according to OECD criteria)
Method			OECD 301B / ISO 9439 / EEC 84/449 C5

Denatonium benzoate

Value	18,17		%
Duration of test	28	d	
evaluation			not readily degradable
Method			OECD 301F

Ready degradability (Components)**Cetalkonium chloride**

Value	50	to	60	%
Duration of test	20	d		

12.3. Bioaccumulative potential**General information**

not determined

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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Pentapotassium bis(peroxymonosulphate) bis(sulphate)

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

Cetalkonium chloride

log Pow	3,022		
Temperature	25	°C	
Method			OECD 107

Denatonium benzoate

log Pow	2,2		
Temperature	25	°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



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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

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	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), Cetalkonium chloride)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Cetalkonium chloride)	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Pentapotassium bis(peroxymonosulphate) bis(sulphate), Cetalkonium chloride)
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	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.



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H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
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.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 2	Acute toxicity, Category 2
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
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
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.