

SAFETY DATA SHEET

Cleaning tablets for coffee machines

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

1.1. Product identifier

Trade name

Cleaning tablets for coffee machines

Product no.

23009

Unique formula identifier (UFI)

E776-3C4X-D801-8VHV

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

Relevant identified uses of the substance or mixture

Cleaning product

Uses advised against

None known.

1.3. Details of the supplier of the safety data sheet

Company and address

lujoCLEAN - cleaning products for coffee machines

Weidenstraße 13

82386 Huglfing

Germany

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Fax: +49 (0) 88 02 913 747 -1

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Revision

17/02/2023

SDS Version

1.0

1.4. Emergency telephone number

Tel. +49 89 96290-441

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Eye Irrit. 2; H319, Causes serious eye irritation.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes serious eye irritation. (H319)

Safety statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Prevention

-

Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. (P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage

-

Disposal

-

Hazardous substances

None known.

Additional labelling

UFI: E776-3C4X-D801-8VHV

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
sodium carbonate	CAS No.: 497-19-8 EC No.: 207-838-8 REACH: 01-2119485498-19-XXXX Index No.: 011-005-00-2	20-30%	Eye Irrit. 2, H319	
Disodium carbonate, compound with hydrogen peroxide (2:3)	CAS No.: 15630-89-4 EC No.: 239-707-6 REACH: 01-2119457268-30-XXXX Index No.:	10-<25%	Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Dam. 1, H318 (SCL: 25.00 %) Eye Irrit. 2, H319 (SCL: 7.50 %)	
Citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 REACH: 01-2119457026-42-XXXX Index No.:	10-20%	Eye Irrit. 2, H319 STOT SE 3, H335	
Silicic acid, sodium salt	CAS No.: 1344-09-8 EC No.: 215-687-4 REACH: 01-2119448725-31-XXXX Index No.:	1-5%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	
Alkoholalkoxylat	CAS No.: EC No.: REACH: Index No.:	1-2,5%	Acute Tox. 4, H302 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
(1-hydroxyethylidene)bisphosphonic acid, sodium salt	CAS No.: 29329-71-3 EC No.: 249-559-4 REACH: Index No.:	1-2,5%	Acute Tox. 4, H302 Eye Irrit. 2, H319	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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Labelling of contents according to Detergents Regulation (EC) No 648/2004

- ≥ 30%
 - Phosphates
- 15% - 30%
 - Oxygen-based bleaching Agents
- < 5%
 - Non-ionic surfactants
 - Phosphonates

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Not applicable.

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

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

If eye irritation persists: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

- Carbon oxides (CO / CO₂)
- Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the National Poisons Information Centre (NPIC) on +353 (0) 1 809 256 (24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

6.3. Methods and material for containment and cleaning up

Minor spills are collected with a cloth. Collection and disposal of the material shall be done with minimum creation of dust. Sweep and collect. Shall be contained in suitable and tightly closed disposal containers.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage material

Keep only in original packaging.

Storage temperature

Room temperature 15 to 25°C

Incompatible materials

No specific requirements

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No substances are listed in the "List of Chemical Agents and Occupational Exposure Limit Values" with an occupational exposure limit.

DNEL

Disodium carbonate, compound with hydrogen peroxide (2:3)

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Dermal	6.4 mg/cm ²
Long term – Local effects - Workers	Dermal	12.8 mg/cm ²
Short term – Local effects - General population	Dermal	6.4 mg/cm ²
Short term – Local effects - Workers	Dermal	12.8 mg/cm ²
Long term – Local effects - Workers	Inhalation	5 mg/m ³

Silicic acid, sodium salt

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	800 µg/kgbw/day
Long term – Systemic effects - Workers	Dermal	1.59 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	1.38 mg/m ³
Long term – Systemic effects - Workers	Inhalation	5.61 mg/m ³
Long term – Systemic effects - General population	Oral	800 µg/kgbw/day

sodium carbonate

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	5 mg/m ³
Long term – Local effects - Workers	Inhalation	10 mg/m ³

PNEC

Disodium carbonate, compound with hydrogen peroxide (2:3)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		35 µg/L
Intermittent release (freshwater)		35 µg/L
Marine water		35 µg/L
Sewage treatment plant		16.24 mg/L

Silicic acid, sodium salt

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		7.5 mg/L
Intermittent release (freshwater)		7.5 mg/L
Marine water		1 mg/L
Sewage treatment plant		348 mg/L

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

8.3. Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Type	Class	Colour	Standards
No specific requirements			

Skin protection




Recommended	Type/Category	Standards
Dedicated work clothing should be worn.	-	-



Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
No special when used as intended	-	-	-

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	0,5	> 480	EN374-2, EN374-3, EN388	
Butyl	0,7	> 480	EN374-2, EN374-3, EN388, EN421	
Eye protection				
Type	Standards			
Safety glasses with side shields.	EN166			

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Tablets

Colour

White

Odour / Odour threshold

Characteristic

pH

Testing not relevant or not possible due to the nature of the product.

pH in solution

10 (1%)

Density (g/cm³)

0

Relative density

Not applicable - product is a solid

Kinematic viscosity

Does not apply to solids.

Particle characteristics

Testing not relevant or not possible due to the nature of the product.

Phase changes

Melting point/Freezing point (°C)

No data available

Softening point/range (waxes and pastes) (°C)

Does not apply to solids.

Boiling point (°C)

No data available

Vapour pressure

No data available

Relative vapour density

Does not apply to solids.

Decomposition temperature (°C)

No data available

Data on fire and explosion hazards

Flash point (°C)

Not applicable - product is a solid

Flammability (°C)

Not applicable - product is a solid

Auto-ignition temperature (°C)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

No data available

Lower and upper explosion limit (% v/v)

Does not apply to solids.

Solubility

Solubility in water

Soluble

n-octanol/water coefficient

Testing not relevant or not possible due to the nature of the product.

Solubility in fat (g/L)

Testing not relevant or not possible due to the nature of the product.

9.2. Other information

Evaporation rate (n-butylacetate = 100)

No data available

Other physical and chemical parameters

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

No specific requirements

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

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

Acute toxicity

Product/substance sodium carbonate

Test method:

Species:

Rat

Route of exposure:

Oral

Test:

LD50

Result:

2800 mg/kg

Other information:

Product/substance

sodium carbonate

Test method:

Species:

Rabbit

Route of exposure:

Dermal

Test:

LD50

Result:

>2000 mg/kg

Other information:

Product/substance

sodium carbonate

Test method:

OECD 403

Species:

Rat

Route of exposure:

Inhalation

Test:

LD50

Result:

2,3 mg/L

Other information:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method:	
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1034 mg/kg
Other information:	

Product/substance	Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method:	OECD 402
Species:	Rabbit
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Other information:	

Product/substance	Citric acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kg
Other information:	

Product/substance	Citric acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	11700 mg/kg
Other information:	

Product/substance	Citric acid
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kg
Other information:	

Product/substance	Silicic acid, sodium salt
Test method:	
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	>2000 mg/kg
Other information:	

Product/substance	Silicic acid, sodium salt
Test method:	
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>5000 mg/kg
Other information:	

Product/substance	Silicic acid, sodium salt
Test method:	
Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	>2060 mg/m ³
Other information:	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance: Alkoholalkoxylat
 Test method: OECD 423
 Species: Rat
 Route of exposure: Oral
 Test: LD50
 Result: >300-<2000 mg/kg
 Other information:

Product/substance: (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method:
 Species: Rat
 Route of exposure: Oral
 Test: LD50
 Result: 940 mg/kg
 Other information:

Product/substance: (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method:
 Species: Rabbit
 Route of exposure: Dermal
 Test: LD50
 Result: >7940 mg/kg
 Other information:

Skin corrosion/irritation

Product/substance: sodium carbonate
 Test method: OECD 404
 Species: Rabbit
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance: Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method:
 Species: Rabbit
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance: Citric acid
 Test method: OECD 404
 Species: Rabbit
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance: Silicic acid, sodium salt
 Test method:
 Species:
 Duration:
 Result: Adverse effect observed (Irritating)
 Other information:

Product/substance: Alkoholalkoxylat
 Test method: OECD 404
 Species: Rabbit
 Duration:
 Result: No adverse effect observed (Not irritating)
 Other information:

Product/substance: (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method: Draize-test
 Species:
 Duration:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: No adverse effect observed (Not irritating)
Other information:

Serious eye damage/irritation

Product/substance: sodium carbonate
Test method: OECD 404
Species: Rabbit
Duration:
Result: No adverse effect observed (Not irritating)
Other information:

Product/substance: Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method: OECD 405
Species: Rabbit
Duration:
Result: No adverse effect observed (Not irritating)
Other information:

Product/substance: Citric acid
Test method: OECD 405
Species: Rabbit
Duration:
Result: Adverse effect observed (Irritating)
Other information:

Product/substance: Silicic acid, sodium salt
Test method:
Species:
Duration:
Result: Adverse effect observed (Irritating)
Other information:

Product/substance: Alkoholalkoxylat
Test method: OECD 405
Species: Rabbit
Duration:
Result: Adverse effect observed (Irritating)
Other information:

Product/substance: (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:
Species: Rabbit
Duration:
Result: Adverse effect observed (Irritating)
Other information:

Causes serious eye irritation.

Respiratory sensitisation

Product/substance: sodium carbonate
Test method:
Species:
Result: No adverse effect observed (not sensitising)
Other information:

Product/substance: Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method: OECD 406
Species: Guinea pig
Result: No adverse effect observed (not sensitising)
Other information:

Product/substance: Citric acid
Test method:
Species:
Result: No adverse effect observed (not sensitising)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)
 Other information:

Skin sensitisation

Product/substance sodium carbonate
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)
 Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method: OECD 406
 Species: Guinea pig
 Result: No adverse effect observed (not sensitising)
 Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method:
 Species:
 Result: No adverse effect observed (not sensitising)
 Other information:

Germ cell mutagenicity

Product/substance sodium carbonate
 Test method:
 Species:
 Conclusion: No adverse effect observed
 Other information:

Product/substance Citric acid
 Test method: OECD 475
 Species: Rat
 Conclusion: No adverse effect observed
 Other information:

Product/substance Citric acid
 Test method: OECD 471
 Species: Bacteria, S. typhimurium
 Conclusion: No adverse effect observed
 Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
 Test method:
 Species:
 Conclusion: No adverse effect observed
 Other information:

Carcinogenicity

Product/substance Citric acid
 Test method:
 Species:
 Route of exposure:
 Target organ:
 Duration:
 Test:
 Result:
 Conclusion: No adverse effect observed
 Other information:

Reproductive toxicity

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Product/substance	sodium carbonate
Test method:	
Species:	
Duration:	
Test:	
Result:	
Conclusion:	No adverse effect observed
Other information:	

Product/substance	Citric acid
Test method:	
Species:	
Duration:	
Test:	
Result:	
Conclusion:	No adverse effect observed
Other information:	

Product/substance	(1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:	
Species:	Rat
Duration:	
Test:	NOAEL
Result:	>=447 mg/kg
Conclusion:	
Other information:	

STOT-single exposure

Product/substance	Silicic acid, sodium salt
Test method:	
Species:	
Route of exposure:	
Target organ:	
Duration:	
Test:	
Result:	
Conclusion:	Adverse effect observed
Other information:	

Product/substance	(1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:	
Species:	Rat
Route of exposure:	
Target organ:	
Duration:	
Test:	NOAEL
Result:	>=1724 mg/kg
Conclusion:	
Other information:	

STOT-repeated exposure

Product/substance	Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method:	OECD 408
Species:	Rat
Route of exposure:	
Target organ:	
Duration:	
Test:	NOAEL
Result:	100 ppm
Conclusion:	
Other information:	

Product/substance	Citric acid
Test method:	
Species:	Rat
Route of exposure:	

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Target organ:
Duration: 7 days
Test: NOAEL
Result: 4000 mg/kg
Conclusion:
Other information:

Product/substance Citric acid
Test method:
Species: Rat
Route of exposure:
Target organ:
Duration: 7 days
Test: LOAEL
Result: 8000 mg/kg
Conclusion:
Other information:

Product/substance Silicic acid, sodium salt
Test method:
Species: Rat
Route of exposure:
Target organ:
Duration:
Test: NOAEL
Result: >159 mg/kg
Conclusion:
Other information:

Aspiration hazard

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

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.
Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

Not applicable.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance sodium carbonate
Test method:
Species: Fish, *Lepomis macrochirus*
Compartment:
Duration: 96 hours
Test: LC50
Result: 300 mg/L
Other information:

Product/substance sodium carbonate
Test method:
Species: Crustacean, *Daphnia magna*
Compartment:
Duration: 48 hours
Test: EC50
Result: 200-265 mg/L
Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
Test method:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Species: Crustacean, Daphnia magna
 Compartment:
 Duration: 48 hours
 Test: EC50
 Result: 4,9 mg/L
 Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method:
 Species: Algae, Skeletonema costatum
 Compartment:
 Duration: 72 hours
 Test: EC50
 Result: 2,62 mg/L
 Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method:
 Species: Fish, Pimephales promelas
 Compartment:
 Duration: 96 hours
 Test: LC50
 Result: 70,7 mg/L
 Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method:
 Species: Crustacean, Daphnia pulex
 Compartment:
 Duration: 48 hours
 Test: NOEC
 Result: 2 mg/L
 Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)
 Test method: OECD 209
 Species: Bacteria
 Compartment:
 Duration: 15 minutes
 Test: EC50
 Result: 466 mg/L
 Other information:

Product/substance Citric acid
 Test method: OECD 203
 Species: Fish, Leuciscus idus
 Compartment:
 Duration: 96 hours
 Test: LC50
 Result: 440-706 mg/L
 Other information:

Product/substance Citric acid
 Test method: OECD 202
 Species: Crustacean, Daphnia magna
 Compartment:
 Duration: 24 hours
 Test: EC50
 Result: 1535 mg/L
 Other information:

Product/substance Citric acid
 Test method:
 Species: Algae, Scenedesmus quadricauda
 Compartment:

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Duration:
Test: EC5
Result: 640 mg/L
Other information:

Product/substance: Citric acid
Test method:
Species: Algae, Scenedesmus quadricauda
Compartment:
Duration: 7 days
Test: NOEC
Result: 425 mg/L
Other information:

Product/substance: Citric acid
Test method:
Species: Bacteria, Pseudomonas putida
Compartment:
Duration: 16 hours
Test:
Result: >10000 mg/L
Other information:

Product/substance: Silicic acid, sodium salt
Test method: OECD 203
Species: Fish, Brachydanio rerio
Compartment:
Duration: 96 hours
Test: LC50
Result: >100 mg/L
Other information:

Product/substance: Silicic acid, sodium salt
Test method:
Species: Crustacean, Daphnia magna
Compartment:
Duration: 48 hours
Test: EC50
Result: >100 mg/L
Other information:

Product/substance: Silicic acid, sodium salt
Test method:
Species: Bacteria
Compartment:
Duration: 48 hours
Test: EC0
Result: >1000 mg/L
Other information:

Product/substance: Alkoholalkoxylat
Test method: OECD 203
Species: Fish, Brachydanio rerio
Compartment:
Duration: 96 hours
Test: LC50
Result: >10-100 mg/L
Other information:

Product/substance: Alkoholalkoxylat
Test method: OECD 202
Species: Crustacean, Daphnia magna
Compartment:
Duration: 48 hours
Test: EC50

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Result: >10-100 mg/L
Other information:

Product/substance Alkoholalkoxylat
Test method:
Species: Algae, *Desmodesmus subspicatus*
Compartment:
Duration: 72 hours
Test: NOEC
Result: >0,1-1 mg/L
Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:
Species: Algae, *Selenastrum capricornutum*
Compartment:
Duration: 96 hours
Test: EC50
Result: >960 mg/L
Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:
Species: Fish, *Oncorhynchus mykiss*
Compartment:
Duration: 96 hours
Test: LC50
Result: 368 mg/L
Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:
Species: Crustacean, *Daphnia magna*
Compartment:
Duration: 48 hours
Test: EC50
Result: 527 mg/L
Other information:

12.2. Persistence and degradability

Product/substance Citric acid
Biodegradable: Yes
Test method: OECD 301 E
Result: 100

Product/substance Alkoholalkoxylat
Biodegradable: Yes
Test method: OECD 301 B
Result: >60

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Biodegradable: Yes
Test method:
Result:

12.3. Bioaccumulative potential

Product/substance sodium carbonate
Test method:
Potential bioaccumulation: No
LogPow: No data available.
BCF: No data available.
Other information:

Product/substance Disodium carbonate, compound with hydrogen peroxide (2:3)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

Test method:
Potential bioaccumulation: No
LogPow: No data available.
BCF: No data available.
Other information:

Product/substance Citric acid
Test method:
Potential bioaccumulation: No
LogPow: (-1,8)-(-0,2)
BCF: No data available.
Other information:

Product/substance (1-hydroxyethylidene)bisphosphonic acid, sodium salt
Test method:
Potential bioaccumulation: No data available.
LogPow: No data available.
BCF: <2
Other information:

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

Waste treatment methods

Product is not covered by regulations on dangerous waste.
Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

20 01 29* Detergents containing dangerous substances

Specific labelling

Not applicable.

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

No special.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Sources

Regulation (EC) No 648/2004 of the European Parliament and of the Council of 31 March 2004 on detergents.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H272, May intensify fire; oxidiser.

H302, Harmful if swallowed.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

H412, Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

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

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWG = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

According to EC-Regulation 1907/2006 (REACH), annex II, including changes implemented by EC-Regulation 2020/878

OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).

The safety data sheet is validated by

QM IujoCLEAN

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: IE-en