

SAFETY DATA SHEET

Crew Special Descaling Cleaning Tabs

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

1.1. Product identifier

Trade name

Entkalker Tablette

Other names / Synonyms

Descaler tablet

Product no.

23005

Unique formula identifier (UFI)

7SXW-YTW4-X009-WJSP

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

Relevant identified uses of the substance or mixture

Descaler

Uses advised against

None known.

1.3. Details of the Manufacturer of the safety data

sheet Company and address

lujoCLEAN - cleaning products for coffee machines

Weidenstraße 13

82386 Huglfing

Germany

Tel: +49 (0) 88 02 913 747 -0

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

www.lujoclean.com

E-mail

info@lujoclean.com

Revision

2/1/2023

SDS Version

1.0

1.4. Emergency telephone number

Tel. +49 89 96290-441

1.3.1 Details of the of Supplier the safety data sheet Company and address

Crew Machines

Sterling House

5 - 7 Turves Road, Cheadle Court

Turves Road

SK4 3RH

United Kingdom

www.crewmachines.com/

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

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

Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Causes skin irritation. (H315)

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

Causes serious eye irritation. (H319)
Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)

General

If medical advice is needed, have product container or label at hand. (P101)
Keep out of reach of children. (P102)

Prevention

Wear protective gloves. (P280)

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)
Get medical advice/attention if you feel unwell. (P314)

Storage

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Disposal

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances

None known.

Additional labelling

UFI: 7SXW-YTW4-X009-WJSP

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
sulphamidic acid;sulphamic acid;sulfamic acid	CAS No.: 5329-14-6 EC No.: 226-218-8 REACH: 01-2119488633-28-XXXX Index No.: 016-026-00-0	50-70%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	
sodium carbonate	CAS No.: 497-19-8 EC No.: 207-838-8 REACH: 01-2119485498-19-XXXX Index No.: 011-005-00-2	1-10%	Eye Irrit. 2, H319	
adipic acid	CAS No.: 124-04-9 EC No.: 204-673-3 REACH: 01-2119457561-38-XXXX Index No.: 607-144-00-9	1-10%	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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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.

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

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

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

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

Provide plenty of water for the person to drink and stay with him/her. 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:

Sulphur oxides

Nitrogen oxides (NO_x)

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 Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

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.

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

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

Joint storage is permitted for products in storage classes: 2A, 2B, 3, 4.1B, 4.2, 4.3, 5.1A, 5.1B, 5.2, 6.1A, 6.1B, 6.1C, 6.1D, 8A, 8B, 10, 11, 12, 13

Restrictions apply to joint storage of products in storage class: 4.1A. See the Explosion Ordinance (SprengV).

Restrictions apply to joint storage of products in storage class: 5.1C. See the Dangerous Substances Ordinance (GefStoffV) Annex I (Ammonium nitrate) and TRGS 511.

Joint storage is NOT allowed for products in all other storage classes.

Recommended storage material

Keep only in original packaging.

Storage class

Storage class 13 (Non-combustible solids).
TRGS 510 - Storage of hazardous substances in non-stationary containers.

Storage temperature

Not applicable

Incompatible materials

Bases
Aluminium

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

adipic acid

Long term exposure limit (8 hours) (mg/m³): 2 (Einatembare Fraktion)

Annotations:

DFG = Senate Commission for the examination of Harmful working materials of the DFG (MAK Commission)

Y = No risk of fetal damage is to be feared if the occupational exposure limit (OEL) value and the biological limit value (BLV) are adhered to.

Technical requirements for hazardous substances, workplace exposure limits, TRGS 900 (Jan. 2006)

DNEL

adipic acid

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	7.5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	21 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	13 mg/m ³
Long term – Systemic effects - Workers	Inhalation	74.1 mg/m ³
Long term – Systemic effects - General population	Oral	7.5 mg/kg bw/day

sodium carbonate

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

sulphamidic acid;sulphamic acid;sulfamic acid

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

Duration	Route of exposure	DNEL
Long term – Systemic effects - General population	Dermal	5 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Long term – Systemic effects - General population	Inhalation	17.4 mg/m ³
Long term – Systemic effects - Workers	Inhalation	70.5 mg/m ³
Long term – Systemic effects - General population	Oral	5 mg/kg bw/day

PNEC

adipic acid

Route of exposure	Duration of Exposure	PNEC
Freshwater		126 µg/L
Freshwater sediment		474 µg/kg
Intermittent release (freshwater)		460 µg/L
Marine water		12.6 µg/L
Marine water sediment		47.4 µg/kg
Soil		20.8 µg/kg

sulphamidic acid;sulphamic acid;sulfamic acid

Route of exposure	Duration of Exposure	PNEC
Freshwater		1.8 mg/L
Freshwater sediment		8.36 mg/kg
Intermittent release (freshwater)		480 µg/L
Marine water		180 µg/L
Marine water sediment		840 µg/kg
Sewage treatment plant		20 mg/L
Soil		5 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and showers are clearly marked.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

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


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

No specific requirements.

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
No special when used as intended	-	-	-	
Butyl	0,7	> 480	EN374-2, EN374-3, EN388, EN421	
Nitrile	0,5	> 480	EN374-2, EN374-3, EN388	

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

1,6 (1%)

Density (g/cm³)

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

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)

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

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

Does not apply to solids.

Boiling point (°C)

Does not apply to solids.

Vapour pressure

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

Relative vapour density

Does not apply to solids.

Decomposition temperature (°C)

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

Data on fire and explosion hazards

Flash point (°C)

Does not apply to solids.

Auto-Ignition (°C)

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

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

Flammability (°C)

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

Lower and upper explosion limit (% v/v)

Does not apply to solids.

Solubility

Solubility in water

Completely 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

VOC (g/L)

0

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

Bases

Aluminium

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	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 402
Species	Rat
Route of exposure	Dermal
Test	LD50
Result	>2000 mg/kg
Other information	

Product/substance	sodium carbonate
Test method	
Species	Rat
Route of exposure	Oral
Test	LD50

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

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	
Product/substance	adipic acid
Test method	OECD 401
Species	Rat
Route of exposure	Oral
Test	LD50
Result	5560 mg/kg
Other information	
Product/substance	adipic acid
Test method	
Species	Rabbit
Route of exposure	Dermal
Test	LD50
Result	7940 mg/kg
Other information	
Product/substance	adipic acid
Test method	OECD 403
Species	Rat
Route of exposure	Inhalation
Test	LC50
Result	>7,7 mg/L
Other information	
Skin corrosion/irritation	
Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 404
Species	Rabbit
Duration	
Result	Adverse effect observed (Irritating)
Other information	
Product/substance	sodium carbonate
Test method	OECD 404
Species	Rabbit
Duration	
Result	No adverse effect observed (Not irritating)
Other information	
Product/substance	adipic acid
Test method	OECD 404
Species	Rabbit
Duration	
Result	No adverse effect observed (Not irritating)
Other information	

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

Causes skin irritation.

Serious eye damage/irritation

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 405
 Species Rabbit
 Duration
 Result Adverse effect observed (Irritating)
 Other information

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

Product/substance adipic acid
 Test method OECD 405
 Species Rabbit
 Duration
 Result Adverse effect observed (Highly 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 adipic acid
 Test method OECD 406
 Species Guinea pig
 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 adipic acid
 Test method OECD 406
 Species Rabbit
 Result No adverse effect observed (not sensitising)
 Other information

Germ cell mutagenicity

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 471
 Species Bacteria, S. typhimurium
 Conclusion No adverse effect observed
 Other information

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 474
 Species Mouse
 Conclusion No adverse effect observed
 Other information

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 476

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

Species	
Conclusion	No adverse effect observed
Other information	

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

Product/substance	adipic acid
Test method	OECD 471
Species	Bacteria, <i>S. typhimurium</i>
Conclusion	No adverse effect observed
Other information	

Product/substance	adipic acid
Test method	OECD 476
Species	
Conclusion	No adverse effect observed
Other information	

Carcinogenicity

Product/substance	adipic acid
Test method	
Species	Rat, male
Route of exposure	
Target organ	
Duration	
Test	NOAEL
Result	>3750 mg/kg
Conclusion	
Other information	

Reproductive toxicity

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 414
Species	Rat
Duration	
Test	NOAEL
Result	200 mg/kg
Conclusion	No adverse effect observed
Other information	

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

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

STOT-single exposure

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

STOT-repeated exposure

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

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	
Species	Rat
Route of exposure	Oral
Target organ	
Duration	96 hours
Test	NOAEL
Result	1000 mg/kg
Conclusion	
Other information	

Product/substance	adipic acid
Test method	
Species	Rat
Route of exposure	
Target organ	
Duration	
Test	NOAEL
Result	750 mg/kg
Conclusion	No adverse effect observed
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

None known.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 209
Species	Bacteria
Compartment	
Duration	3 hours
Test	EC50
Result	>200 mg/L
Other information	

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 201
Species	Algae, <i>Desmodesmus subspicatus</i>
Compartment	
Duration	72 hours
Test	EC50
Result	48 mg/L
Other information	

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	OECD 211
Species	Crustacean, <i>Daphnia magna</i>
Compartment	
Duration	21 days
Test	NOEC
Result	19 mg/L
Other information	

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

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 210
 Species Fish, Brachydanio rerio
 Compartment
 Duration 28 days
 Test NOEC
 Result >=60 mg/L
 Other information

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 203
 Species Fish, Pimephales promelas
 Compartment
 Duration 96 hours
 Test LC50
 Result 70,3 mg/L
 Other information

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method OECD 202
 Species Crustacean, Daphnia magna
 Compartment
 Duration 48 hours
 Test EC50
 Result 71,6 mg/L
 Other information

Product/substance sulphamidic acid;sulphamic acid;sulfamic acid
 Test method
 Species Algae, Chlorella vulgaris
 Compartment
 Duration 72 hours
 Test IC50
 Result >29 mg/L
 Other information

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 adipic acid
 Test method
 Species Fish, Pimephales promelas
 Compartment
 Duration 96 hours
 Test LC50
 Result 97 mg/L
 Other information

Product/substance adipic acid

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

Test method	OECD 202
Species	Crustacean, Daphnia magna
Compartment	
Duration	48 hours
Test	EC50
Result	46 mg/L
Other information	

Product/substance	adipic acid
Test method	
Species	Algae, Pseudokirchneriella subcapitata
Compartment	
Duration	72 hours
Test	NOEC
Result	41 mg/L
Other information	

Product/substance	adipic acid
Test method	
Species	Algae, Desmodesmus subspicatus
Compartment	
Duration	72 hours
Test	EC50
Result	31 mg/L
Other information	

Product/substance	adipic acid
Test method	OECD 209
Species	Bacteria
Compartment	
Duration	3 hours
Test	EC50
Result	4747 mg/L
Other information	

12.2. Persistence and degradability

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Biodegradable	No
Test method	
Result	

12.3. Bioaccumulative potential

Product/substance	sulphamidic acid;sulphamic acid;sulfamic acid
Test method	
Potential bioaccumulation	No data available.
LogPow	-4,34
BCF	No data available.
Other information	

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

Product/substance	adipic acid
Test method	
Potential bioaccumulation	No
LogPow	0,09
BCF	3,162
Other information	

12.4. Mobility in soil

No data available.

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

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

None known.

12.7. Other adverse effects

This product contains substances, which may cause adverse long-term effects to the aquatic environment.

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

None known.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

WGK class: WGK 1

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV).
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

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

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

- H315, Causes skin irritation.
- H319, Causes serious eye 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
- EWC = 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)
- 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 are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP).
- The classification of the substance/mixture in regard of environmental hazards are 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: DE-en