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Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date: 25.10.2024

Version number 1.5 (replaces version 1.4)

Revision: 25.10.2024

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

1.1 Product identifier

Trade name: TECEone Descaling tablets

UFI: 6DV0-M0XT-F00Y-UUKN

1.2 Relevant identified uses of the substance or mixture and uses advised against Application of the substance / the mixture Descaling agent

1.3 Details of the supplier of the safety data sheet

Supplier:

TECE GmbH Hollefeldstraße 57 D-48282 Emsdetten Tel.: +49 25 72 92 80 E-Mail: info@tece.de

Manufacturer:

Oxytabs GmbH - Member of the Medea Group -Pellwormer Straße 1 D-24768 Rendsburg Germany

Further information obtainable from:

Tel.: +49 4331 69620 0 Fax: +49 4331 69620 22 E-Mail: info@oxytabs.de

1.4 Emergency telephone number:

Poison Centre Berlin - Emergency call of the Charité D-13437 Berlin Phone: +49 30 30686 700

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008Acute Tox. 4H302 Harmful if swallowed.Skin Irrit. 2H315 Causes skin irritation.Eye Irrit. 2H319 Causes serious eye irritation.Skin Sens. 1H317 May cause an allergic skin reaction.STOT SE 3H335 May cause respiratory irritation.Aquatic Chronic 3H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation. **Hazard pictograms**



Signal word Warning

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Hazard-determ	nining components of labelling:
Maleic acid	
Hazard statem	ents
H302 Harmful i	f swallowed.
H315 Causes s	kin irritation.
H319 Causes s	erious eye irritation.
	se an allergic skin reaction.
	se respiratory irritation.
	o aquatic life with long lasting effects.
Precautionary	
P102	Keep out of reach of children.
P280	
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P3	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if preser and easy to do. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P501	Dispose of contents/container in accordance with local regulations.
2.3 Other haz	
Results of PI	BT and vPvB assessment
PBT:	
The product do	es not contain components classified as persistent, bioaccumulative and toxic (PBT) in of 0.1% or higher.
vPvB:	
	es not contain components classified as very persistent and very bioaccumulative (vPvB) in of 0.1% or higher.
Determinatio	n of endocrine-disrupting properties
95-14-7 Benzo	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:		
CAS: 110-16-7	Maleic acid	25-<50%
EINECS: 203-742-5 Reg.nr.: 01-2119488705-25	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	
-	Specific concentration limit: Skin Sens. 1; H317: C \ge 0.1 %	
CAS: 5329-14-6	Sulphamidic acid	25-<50%
EINECS: 226-218-8 Reg.nr.: 01-2119488633-28	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	
CAS: 95-14-7	Benzotriazole	≥0.25-<2.5%
EINECS: 202-394-1 Reg.nr.: 01-2119979079-20	Aquatic Chronic 2, H411; Acute Tox. 4, H302; Eye Irrit. 2, H319	
Additional information: For the wording of the listed hazard phrases refer to section 16.		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Immediately wash with water and soap and rinse thoroughly.

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After eye contact:

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Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. **After swallowing:**

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with the eyes and skin.

Ensure adequate ventilation.

Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Avoid contact with the eyes and skin. **Information about fire and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles: Store in a cool and dry place.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

	Maleic acid		
Dermal	Long-term ex	•	3 mg/cm² (Employees)
Inhalative	Short-term ex		3 mg/m³ (Employees)
		kposure, systemic	
	-	posure, local	3 mg/m ³ (Employees)
	-	•	3 mg/m³ (Employees)
	Sulphamidic		
Oral	Long-term ex	posure, systemic	5 mg/kg (general population)
			10 mg/kg (Employees)
Dermal	•	posure, systemic	
Inhalative	Long-term ex	posure, systemic	17.4 mg/m³ (general population)
			70.5 mg/m³ (Employees)
	enzotriazole		
Oral			0.54 mg/kg (Consumers)
. .	-	•	0.54 mg/kg (Consumers)
Dermal	Long-term ex	posure, systemic	1.08 mg/kg (Employees)
			0.54 mg/kg (Consumers)
Inhalative	Long-term ex	posure, systemic	ö (1 j)
			9.55 mg/m³ (Consumers)
PNECs			
110-16-7 I	Maleic acid		
Fresh wate	er	0.1 mg/l	
Sea water		0.01 mg/l	
Sediment	(fresh water)	0.334 mg/kg	
	(seawater)	0.0334 mg/kg	
Floor		0.0415 mg/kg	
	eatment plant		
	Sulphamidic		
Fresh wate		1.8 mg/l	
Sea water		0.18 mg/l	
	(fresh water)	8.36 mg/kg	
	(seawater)	0.84 mg/kg	
Floor		5 mg/kg	
Sewage treatment plant 20 mg/l		20 mg/l	
	enzotriazole		
Fresh wate		0.0194 mg/l	
Sea water 0.0194 mg/l		-	
Sediment (fresh water) 0.00375 mg/kg			
Sediment (seawater) 0.00375 mg/kg			
Floor		0.003 mg/kg	
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Sewage treatment plant	39.4 mg/l
Sporadic release	0.158 mg/l
Additional information	The lists valid during the making were used as basis.
8.2 Exposure control	ls
Appropriate enginee	ring controls No further data; see section 7.
	n measures, such as personal protective equipment
General protective and	
Keep away from foodstu	iffs, beverages and feed.
Immediately remove all s	soiled and contaminated clothing.
Wash hands before brea	aks and at the end of work.
Avoid contact with the ey	
Respiratory protection	In case of dust formation, use a particle-filtering dust mask in accordance with EN 149.
•	tive gloves according to EN 374
Material of gloves	
Nitrile rubber, NBR	
	s of the material: \geq 0.2 mm
	able gloves does not only depend on the material, but also on further marks of quality and
varies from manufacture	
	ve material >480 minutes (permeation level: 6)
	tact gloves made of the following materials are suitable: Nitrile rubber, NBR
	ht-fitting safety goggles according to EN 166
Body protection: Protect	ctive work clothing in accordance with EN 13982-1

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical General Information	properties	
Physical state	Solid	
Colour:	White	
Odour:		
	Recognisable	
Odour threshold:	Not determined.	
Melting point/freezing point:	Not determined.	
Boiling point or initial boiling point and boiling range		
Flammability	Not determined.	
Lower and upper explosion limit		
Lower:	Not determined.	
Upper:	Not determined.	
Flash point:	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
pH at 20 °C	2.86 (0.1%)	
Acid/alkali reserve (J.R. Young et al.):		
Viscosity:		
Kinematic viscosity	Not applicable.	
Dynamic:	Not applicable.	
Solubility		
water:	Soluble.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure:	Not applicable.	
Density and/or relative density	N	
Density:	Not determined.	
Relative density	Not determined.	
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Vapour density	Not applicable.
Particle characteristics	See section 3.
9.2 Other information	
Appearance:	
Form:	Tablets
Important information on protection of health	
and environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
Solids content:	100.0 %
Change in condition	
Evaporation rate	Not applicable.
Information with regard to physical hazard	
classes	
	Void
Explosives	Void
Flammable gases Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable	Void
gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability Stable if stored according to specifications.

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Harmful if swallowed.

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LD/LC50 values relevant for classification:			
110-16-7 Maleic acid			
Oral	LD50	708 mg/kg (rat)	
Dermal	LD50	1,560 mg/kg (rabbit)	
95-14-7	Benzo	triazole	
Oral	LD50	500 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
Primary	/ irritar	it effect:	
••••••		n/irritation Causes skin irritation.	
Serious eye damage/irritation Causes serious eye irritation.			
•	Respiratory or skin sensitisation May cause an allergic skin reaction.		
Germ	Germ cell mutagenicity Based on available data, the classification criteria are not met.		
Carcin	Carcinogenicity Based on available data, the classification criteria are not met.		
Repro	Reproductive toxicity Based on available data, the classification criteria are not met.		
STOT-single exposure May cause respiratory irritation.			
	STOT-repeated exposure Based on available data, the classification criteria are not met.		
Aspiration hazard Based on available data, the classification criteria are not met.			
11.2 Information on other hazards			
Endoc	Endocrine disrupting properties		
95-14-7 Benzotriazole List II			

SECTION 12: Ecological information

12.1 Toxicity

12.1 10/1	city	
Aquatic t	oxicity:	
110-16-7 N	faleic acid	
LC50/96h	75 mg/l (Lepomis macrochirus) (EPA 660/3-75-009)	
EC50/48h	42.81 mg/l (Daphnia magna) (OECD 202)	
EC50/72h	74.35 mg/l (Pseudokirchnerella subcapitata) (OECD 201)	
5329-14-6	Sulphamidic acid	
LC50/96h	70.3 mg/l (Pimephales promelas)	
EC50/3h	>200 mg/l (Activated sludge) (OECD 209)	
EC50/48h	71.6 mg/l (Daphnia magna)	
EC50/72h	48 mg/l (Desmodesmus subspicatus) (OECD 201)	
NOEC/72h	18 mg/l (Desmodesmus subspicatus)	
95-14-7 Be	enzotriazole	
LC50/96h	180 mg/l (Danio rerio) (OECD 203)	
EC50/48h	15.8 mg/l (Daphnia galeata) (OECD 202)	
EC50/72h	75 mg/l (Pseudokirchnerella subcapitata) (OECD 201)	
NOEC/21d	0.97 mg/l (Daphnia galeata) (OECD 211)	
NOEC/72h	1.18 mg/l (Desmodesmus subspicatus) (OECD 201)	
	istence and degradability No further relevant information available.	
	ccumulative potential No further relevant information available. ility in soil No further relevant information available.	
	ults of PBT and vPvB assessment	
PBT: Not		
	applicable.	
VI VB . NO	t applicable.	(Contd. on page 8)



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12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11. **12.7 Other adverse effects**

Remark: Harmful to fish Additional ecological information:

General notes:

Harmful to aquatic organisms

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

European waste catalogue

20 01 29* detergents containing hazardous substances

15 01 10* packaging containing residues of or contaminated by hazardous substances

Uncleaned packaging:

Recommendation: Non contaminated packagings may be recycled.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

14.1 UN number or ID number ADR, IMDG, IATA	Not regulated.
14.2 UN proper shipping name ADR, IMDG, IATA	Not regulated.
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA Class	Not regulated.
14.4 Packing group ADR, IMDG, IATA	Not regulated.
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to I instruments	MO Not applicable.
UN "Model Regulation":	Not regulated.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Labelling according to Regulation (EC) No 1272/2008 GHS label elements

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Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

National regulations:

The product is subject to be labeled according to the prevailing version of the regulations on hazardous substances. **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Classification according to Regulation (EC) No 1272/2008

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

Department issuing SDS: Department R&D

Contact: Simone Kühn

Date of previous version: 23.11.2023

Version number of previous version: 1.4

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative



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Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data changed with respect to previous version.