

Safety Data Sheet

according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

1 Identification

Product identifier**Trade name: CareCycle:DESCALE****Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture** Tablets for descaling**Details of the supplier of the safety data sheet****Supplier:**

HOUNÖ A/S

Alsvej 1

DK-8940 Randers SV

Tel.: +45 8711 4711

E-mail: houno@houno.com

Manufacturer:

O2-Tabs Desinfektion GmbH

-Member of the Medea Group-

Silberhofstr. 88

D-09599 Freiberg

Germany

Further information obtainable from:

Tel.: +49 (0)3731 4193820

Fax: +49 (0)3731 4193821

E-Mail: info@medeagroup.de

contact person: Dr. Niels Ole Vesterager

Emergency telephone number: -

2 Hazard(s) Identification

Classification of the substance or mixture

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Label elements**GHS label elements** The product is classified and labelled according to the Globally Harmonised System (GHS).**Hazard pictograms**

GHS05 GHS07

Signal word Danger**Hazard-determining components of labelling:**

maleic acid

Hazard statements

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause respiratory irritation.

Precautionary statements

Keep out of reach of children.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

(Contd. on page 2)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: CareCycle:DESCALE

(Contd. of page 1)

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

Continue rinsing.

Immediately call a POISON CENTER/doctor.

Specific treatment (see on this label).

Take off contaminated clothing and wash it before reuse.

Store in a well-ventilated place. Keep container tightly closed.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 5329-14-6	sulphamidic acid	50-100%
EINECS: 226-218-8	Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319	
CAS: 110-16-7	maleic acid	25-<50%
EINECS: 203-742-5	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	

Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

Description of first aid measures

After inhalation: Supply fresh air.

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

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

Information for doctor:

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Fire Fighting Measures

Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

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

(Contd. on page 3)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: CareCycle:DESCALE

(Contd. of page 2)

Advice for firefighters**Protective equipment:** Wear self-contained respiratory protective device.

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures Wear protective clothing.**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.**Methods and material for containment and cleaning up:**

Pick up mechanically.

Send for recovery or disposal in suitable receptacles.

Wash residues with water.

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.

7 Handling and Storage

Handling:**Precautions for safe handling** Prevent formation of dust.**Information about fire and explosion protection:** No special measures required.**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:**

Keep container tightly sealed.

Protect from humidity and water.

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

8 Exposure controls and personal protection

Additional information about design of technical facilities: No further data; see item 7.**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.

Additional information: The lists valid during the making were used as basis.**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: In case of dust formation use respiratory protective device.**Protection of hands:** Protective gloves.**Material of gloves**

Nitrile rubber, NBR

(Contd. on page 4)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: CareCycle:DESCALE

(Contd. of page 3)

Recommended thickness of the material: ≥ 0.2 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Wear tightly sealed safety glasses when handling the solution.

Body protection: Protective work clothing.

9 Physical and Chemical Properties

Information on basic physical and chemical properties
General Information
Appearance:

Form:	Tablets
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.

pH-value at 20 °C: 1-2 (1%)

Change in condition

Melting point/freezing point:	Not determined.
Initial boiling point and boiling range:	Not determined.

Flash point: Not applicable.

Flammability (solid, gas): Not determined.

Decomposition temperature: Not determined.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure: Not applicable.

Density:	Not determined.
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.

Solubility in / Miscibility with water:

Soluble.

Partition coefficient: n-octanol/water: Not determined.

Viscosity:

Dynamic:	Not applicable.
Kinematic:	Not applicable.

Solvent content:

Organic solvents:	0.0 %
VOC (EC)	0.00 %

Solids content: 100.0 %

(Contd. on page 5)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: **CareCycle:DESCALE**

(Contd. of page 4)

Other information

No further relevant information available.

10 Stability and Reactivity

Reactivity No further relevant information available.**Chemical stability** Stable if stored according to specifications.**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** Protect from humidity and water.**Incompatible materials:** Alkali (lye)**Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological Information

Information on toxicological effects**Acute toxicity****LD/LC50 values relevant for classification:****ATE (Acute Toxicity Estimates)**

Oral	LD50	2,529 mg/kg (rat)
Dermal	LD50	5,571 mg/kg (rabbit)

5329-14-6 sulphamidic acid

Oral	LD50	3,160 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

110-16-7 maleic acid

Oral	LD50	708 mg/kg (rat)
Dermal	LD50	1,560 mg/kg (rabbit)

Primary irritant effect:**Skin corrosion/irritation** Irritant to skin and mucous membranes.**Serious eye damage/irritation** Irritating effect.**Respiratory or skin sensitisation** Sensitisation possible through skin contact.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological Information

Toxicity**Aquatic toxicity:****5329-14-6 sulphamidic acid**

LC50/96h	70.3 mg/l (Pimephales promelas)
EC50/48h	71.6 mg/l (Daphnia magna)
EC50/72h	48 mg/l (Desmodesmus subspicatus) (OECD 201)

110-16-7 maleic acid

LC50/96h	75 mg/l (fish) (EPA 660/3-75-009)
----------	-----------------------------------

(Contd. on page 6)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: **CareCycle:DESCALE**

(Contd. of page 5)

EC50/48h	42.81 mg/l (Daphnia magna) (OECD 202)
EC50/72h	74.35 mg/l (algae) (OECD 201)

Persistence and degradability No further relevant information available.**Behaviour in environmental systems:****Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

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.

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.**Other adverse effects** No further relevant information available.

13 Disposal considerations

Waste treatment methods**Recommendation** Must not be disposed together with household garbage.**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

UN-Number**ADG, IMDG, IATA**

UN1759

UN proper shipping name**ADG, IMDG, IATA**

CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID, maleic acid)

Transport hazard class(es)**ADG, IMDG, IATA****Class**

8

Label

8

Packing group**ADG, IMDG, IATA**

III

Environmental hazards:**Marine pollutant:**

No

Special precautions for user

Warning: Corrosive substances.

Hazard identification number (Kemler code):

80

EMS Number:

F-A,S-B

Segregation groups

(SGG1) Acids

(Contd. on page 7)

AU

Safety Data Sheet

according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: **CareCycle:DESCALE**

(Contd. of page 6)

Stowage Category	A
Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	
ADG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
Transport category	3
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 1000 g
UN "Model Regulation":	UN 1759 CORROSIVE SOLID, N.O.S. (SULPHAMIC ACID, MALEIC ACID), 8, III

15 Regulatory information

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

Australian Inventory of Industrial Chemicals

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons

5329-14-6 | sulphamidic acid

S5, S6

Australia: Priority Existing Chemicals

None of the ingredients is listed.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Department issuing SDS: Department R&D**Contact:** Dr. Niels Ole Vesterager

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

EINECS: European Inventory of Existing Commercial Chemical Substances

(Contd. on page 8)

Safety Data Sheet according to WHS Regulations

Printing date: 21.11.2022

Version number 1.0

Revision: 23.09.2022

Trade name: CareCycle:DESCALE

(Contd. of page 7)

ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1A: Skin corrosion/irritation – Category 1A
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

—AU—