

according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: Replaces version: 6.1 Language: en-GB Date of print: 24/1/2023

Revision date: 18/1/2023

7.0

Page: 1 of 9

BeviDescale Tablets

Material number 88.305.060

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

1.1 Product identifier

Trade name: BeviDescale Tablets HEI NE20-C03F-400K-CAJJ

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

For the removal of boiler scale

1.3 Details of the supplier of the safety data sheet

Company name: BeviClean GmbH Street/POB-No.: Carl-Benz-Straße 5 Postal Code, city: DE-56218 Mülheim-Kärlich E-mail: info@beviclean.com Telephone: +49 (0) 2630 / 966 30-0 Telefax: +49 (0) 2630 / 966 30-20

Department responsible for information:

Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0, info@beviclean.com

1.4 Emergency telephone number

Dirk Bersch, Telephone: +49 (0) 2630 / 966 30-0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2: H315 Causes skin irritation. Eye Irrit. 2; H319 Causes serious eye irritation. Skin Sens. 1; H317 May cause an allergic skin reaction. STOT SE 3; H335 May cause respiratory irritation.

2.2 Label elements

Labelling (CLP)



Signal word:	Warning	
Hazard statements:	H315 H317 H319	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.
	H335	May cause respiratory irritation.
Precautionary statements:	P102	Keep out of reach of children.
	P271 P280	Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection.
	P301+P310 P302+P352 P305+P351+P338 P308+P313	IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN: Wash with plenty of water/soap. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention.
	P405	Store locked up.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: 7.0
Replaces version: 6.1
Language: en-GB
Date of print: 24/1/2023

Revision date: 18/1/2023

BeviDescale Tablets

Material number 88.305.060

Page: 2 of 9

Special labelling

Text for labelling: Contains Sulphamidic acid, Maleic acid and Citric acid, anhydrous.

2.3 Other hazards

No risks worthy of mention.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substances listed below with non-hazardous additions

Hazardous ingredients:

Identifiers	Designation Classification	Content	
REACH 01-2119457026-42-xxxx EC No. 201-069-1 CAS 77-92-9	Citric acid, anhydrous Eye Irrit. 2; H319. STOT SE 3; H335.	30 - 60 %	
EC No. 203-742-5 CAS 110-16-7	Maleic acid Acute Tox. 4; H302. Skin Irrit. 2; H315. Eye Irrit. 2; H319. Skin Sens. 1; H317. STOT SE 3; H335. Specific concentration limits (SCL): Skin Sens. 1; H317: C ≥ 0.1 %	10 - 25 %	
REACH 01-2119488633-28-xxxx EC No. 226-218-8 CAS 5329-14-6	Sulphamidic acid Skin Irrit. 2; H315. Eye Irrit. 2; H319. Aquatic Chronic 3; H412.	< 25 %	

Full text of H- and EUH-statements: see section 16.

Additional information: Contains Sodium hydrogencarbonate. The maximum workplace exposure limits are, where

necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.

Take off contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for

breathing. Seek medical attention if problems persist.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. In case of skin irritation,

consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an

ophthalmologist.

After swallowing: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth

immediately and drink plenty of water. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: 7.0
Replaces version: 6.1
Language: en-GB
Date of print: 24/1/2023

Page

3 of 9

Revision date: 18/1/2023

BeviDescale Tablets

Material number 88.305.060

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Rinse mouth with water. Product reacts acidic.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray jet, alcohol resistant foam, extinguishing powder, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Nitrogen oxides (NOx), sulphur oxides, carbon monoxide and carbon dioxide

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Hazchem-Code: -

Cool endangered containers with water spray and, if possible, remove from danger zone. Use

water spray jet to knock down vapours.

Do not breathe fumes. Do not allow fire water to penetrate into surface or ground water. Fire water becomes acidic. Fire residuals and contaminated extinguishing water must be disposed

of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Take off contaminated clothing and wash it before reuse.

6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If necessary notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Avoid generation of dust.

Collect dry and place in appropriate containers for disposal. Subsequent cleaning.

To clean the floor and all object contaminated by this material, use water. Use soda or another alkaline detergent for removal of residues.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: 7.0
Replaces version: 6.1
Language: en-GB
Date of print: 24/1/2023

Page

4 of 9

Revision date: 18/1/2023

BeviDescale Tablets

Material number 88.305.060

Precautions against fire and explosion:

Usual measures for fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight.

Hints on joint storage: Materials to avoid: Halogens, bases, acids, oxidizing agents (nitrates, nitrites, nitric acid),

metals with water.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

Туре	Limit value
Great Britain: WEL-TWA	10 mg/m³ (Dust limit value, inhalable fraction)
Great Britain: WEL-TWA	4 mg/m³ (Dust limit value, respirable fraction)

8.2 Exposure controls

Use acid resistant materials and devices.

Inspect electric installations more frequently for corrosion damage.

Provide good ventilation and/or an exhaust system in the work area. Dust should be exhausted directly at the point of origin.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded.

Dust mask or Combination filter Use combination filter type A-(P3) according to EN 14387.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to EN 374.

Glove material: Nitrile rubber-Layer thickness: 0.11 mm.

Breakthrough time: >480 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Avoid generation of dust. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse. Have eye wash bottle or eye rinse ready at work place.

Environmental exposure controls

Refer to "6.2 Environmental precautions".



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: 7.0
Replaces version: 6.1
Language: en-GB
Date of print: 24/1/2023

5 of 9

Page:

Revision date: 18/1/2023

BeviDescale Tablets

Material number 88.305.060

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: solid

Form: Tablets Colour: white odourless

Odour threshold: No data available

pH: at 20 °C, 10 g/L: 1.0

Melting point/freezing point: 132 - 135 °C
Initial boiling point and boiling range: No data available
Flash point/flash point range: > 100 °C

Evaporation rate:

No data available
Flammability:

No data available
Explosion limits:

No data available
Vapour pressure:

No data available
Vapour density:

No data available
Density:

No data available
No data available

Water solubility: at 80 °C: easily soluble

Partition coefficient: n-octanol/water: No data available

Auto-ignition temperature: No data available

Decomposition temperature: > 135 °C

Viscosity, kinematic:

No data available

Explosive properties:

No data available

Oxidizing characteristics:

No data available

9.2 Other information

Additional information: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

In aqueous solution: May be corrosive to metals.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions with proper and specified storage and handling

At high temperatures, will react with alkali nitrites and nitrates as well as with other metal nitrates in explosive fashion and develop nitrogen.

The product develops hydrogen in an aqueous solution in contact with metals.

Reacts with alkalis with development of heat.

10.4 Conditions to avoid

Humidity. Keep away from heat sources, sparks and open flames.

Protect from direct sunlight.

10.5 Incompatible materials

Halogens, bases, acids, oxidizing agents (nitrates, nitrites, nitric acid), metals with water.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Version: 7.0
Replaces version: 6.1
Language: en-GB
Date of print: 24/1/2023

Page

6 of 9

Revision date: 18/1/2023

BeviDescale Tablets

Material number 88.305.060

10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: > 135 °C

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data

is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.

ATEmix (calculated): 2,000 mg/kg < ATE <= 5,000 mg/kg.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Skin Sens. 1; H317 = May cause an allergic skin reaction.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H335 = May cause respiratory

irritation.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: A corrosive effect cannot be ruled out because of the pH value.

Information about Maleic acid: LD50 Rat, oral: 1,030 mg/kg

Symptoms

In case of inhalation: Inhalation of dust may cause irritation of the respiratory system.

Other symptoms: Cough, shortage of breath. Pulmonary edema is possible.

Symptoms may occur with delay.

In case of ingestion:

Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Other symptoms: Abdominal pain, vomiting, burns.

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

 Revision date:
 18/1/2023

 Version:
 7.0

 Replaces version:
 6.1

 Language:
 en-GB

 Date of print:
 24/1/2023

Page

7 of 9

BeviDescale Tablets

Material number 88.305.060

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity: Harmful effects on water organisms by modification of pH-value.

Before discharge into sewage plants the product normally needs to be neutralised.

Information about Sulphamidic acid:

Bacterial toxicity:

EC50 Activated sludge: >200 mg/L/3h (OECD 209)

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae): 48 mg/L/72h (OECD 201) NOEC Desmodesmus subspicatus (green algae): 18 mg/L/72h (OECD 201)

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 71.6 mg/L/48h (OECD 202)

Fish toxicity:

LC50 Pimephales promelas (fathead minnow): 70.3 mg/L/96h (OECD 203)

12.2 Persistence and degradability

Further details: No data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 20 01 14* = Acids

* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

Package

Recommendation: Waste key number 150101 - Paper and cardboard packaging

Waste key number 150102 - Plastic packaging: OPP Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number

ADR/RID, IMDG, IATA-DGR: not applicable

14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR: Not restricted



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

BeviDescale Tablets

Material number 88.305.060

Revision date: 18/1/2023 Version: 7.0 Replaces version: 6.1 Language: en-GB Date of print: 24/1/2023

8 of 9

Page:

14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR: not applicable

14.4 Packing group

ADR/RID, IMDG, IATA-DGR: not applicable

14.5 Environmental hazards

Marine pollutant:

14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations - Great Britain

Hazchem-Code:

No data available

National regulations - EC member states

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 75

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Further information

Wording of the H-phrases under paragraph 2 and 3:

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.

H412 = Harmful to aquatic life with long lasting effects.



according to Regulation (EC) No 1907/2006, as retained and amended in UK law [UK REACH]

Revision date: 18/1/2023 Version: 7.0 Replaces version: 6.1 Language: en-GB Date of print: 24/1/2023

9 of 9

Page:

BeviDescale Tablets

Material number 88.305.060

Abbreviations and acronyms: Acute Tox.: Acute toxicity

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

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

Aquatic Chronic: Hazardous to the aquatic environment - chronic AS/NZS: Australian Standards/New Zealand Standards

ATE: Acute toxicity estimate CAS: Chemical Abstracts Service

CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level EC: European Community EC50: Effective Concentration 50%

EN: European Standard EQ: Excepted quantities Eye Irrit.: Eye irritation

IATA: International Air Transport Association

IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships

NOEC: No Observed Effect Concentration OEL: Occupational Exposure Limit Value

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

Skin Irrit .: Skin irritation Skin Sens.: Skin sensitisation

STOT SE: Specific target organ toxicity - single exposure

TLV: Threshold Limit Value

TRGS: Technical Rules for Hazardous Substances vPvB: Very persistent and very bioaccumulative

WEL: Workplace Exposure Limit

Reason of change: Changes in section 2: Labelling

Changes in section 3: Composition/information on ingredients

General revision

Date of first version: 16/2/2015 Department issuing data sheet

Contact person: see section 1: Department responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

> Most recent product information is available http://sumdat.net/659sil