

Safety Data Sheet

according to UK REACH Regulation

Water Softener

Revision date: 06.03.2024

Product code: 057

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

1.1. Product identifier

Water Softener

UFI: UH61-C0DH-200N-WT52

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

Use of the substance/mixture

Water softener as part of the detergent modular system

Uses advised against

Not known.

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|-----------------------|------------------------|
| Company name: | Sodasan GmbH | |
| Street: | Rudolf-Diesel-Str. 19 | |
| Place: | D-26670 Uplengen | |
| Telephone: | 0495640720 | Telefax: 04956407299 |
| e-mail: | info@sodasan.com | |
| Contact person: | Frau Grätz | Telephone: 04956407234 |
| e-mail: | mg@sodasan.com | |
| Internet: | www.sodasan.de | |
| Responsible Department: | QS | |

1.4. Emergency telephone number: Gifftinformationszentrum-Nord (Universitätsmedizin Göttingen): 0551 19240 (24h)

Further Information

Not known.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GB CLP Regulation

Skin Irrit. 2; H315
Eye Irrit. 2; H319
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Sodium Silicate (2,6<MV<=3,2)

Signal word: Warning**Pictograms:****Hazard statements**

| | |
|------|-----------------------------------|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |

Precautionary statements

| | |
|------|--|
| P262 | Do not get in eyes, on skin, or on clothing. |
|------|--|

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| | |
|----------------|--|
| P102 | Keep out of reach of children. |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor. |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P312 | Call a POISON CENTER/doctor if you feel unwell. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313 | If eye irritation persists: Get medical advice/attention. |
| P501 | Dispose of contents/container to waste disposal in accordance with local/regional regulation. |

2.3. Other hazards

Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|-----------|--|--------------|----------|-------------|
| | EC No | Index No | REACH No | |
| | Classification (GB CLP Regulation) | | | |
| 497-19-8 | sodium carbonate | | | 70 - < 75 % |
| | 207-838-8 | 011-005-00-2 | | |
| | Eye Irrit. 2; H319 | | | |
| 1344-09-8 | Sodium Silicate (2,6<MV<=3,2) | | | 25 - < 30 % |
| | Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H315 H319 H335 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|--|------------------|-------------|
| | Specific Conc. Limits, M-factors and ATE | | |
| 497-19-8 | 207-838-8 | sodium carbonate | 70 - < 75 % |
| | oral: LD50 = 4090 mg/kg | | |

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove the casualty from the danger zone. Take off dirty, soaked clothes immediately. If symptoms occur or if in doubt, seek medical advice. If unconscious, use recovery position and do not give anything by mouth.

Self-protection of the first aider. When in doubt or if symptoms are observed, get medical advice.

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious but breathing normally, place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

In case of irritation of the respiratory tract, consult a doctor.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

If skin irritation occurs: Get medical advice/attention.

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After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

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

Causes serious eye damage. Irritates the skin. May cause respiratory irritation.

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

Not known.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water, alcohol resistant foam, foam, fire extinguishing powder alcohol resistant foam, Carbon dioxide (CO₂), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Hazardous Decomposition Products: Section 10. Hazardous decomposition products: carbon monoxide, carbon dioxide

Use appropriate respiratory protection.

5.3. Advice for firefighters

Non-flammable. Do not inhale explosion and fire gases. Adapt extinguishing measures to the environment. Do not let extinguishing water get into canals and bodies of water. Collect contaminated extinguishing water separately. Fight fire with normal precautions from a reasonable distance. Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Additional information

Special protective equipment for fire fighting self-contained breathing apparatus (autonomous breathing apparatus, EN 133)

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

For non-emergency personnel

Bring people to safety. Ventilate the affected area. Do not get in eyes, on skin, or on clothing. Do not breathe dust. Avoiding dust generation. Use of appropriate personal protective equipment (including those listed in Section 8 of the Safety Data Sheet personal protective equipment mentioned) to prevent contamination of skin, eyes and personal clothing.

For emergency responders

In the event of exposure to vapours, dust, aerosols and gases, respiratory protection must be worn.

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6.2. Environmental precautions

Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

For containment

Advice on how to prevent spilled materials from spreading Pick up mechanically.

For cleaning up

Advice on how to clean up in the event of a spill Pick up mechanically. Clean up spills.

Other information

Further information regarding spillage and release Place in suitable containers for disposal. Ventilate the affected area. Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal information: see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with eyes and skin. Avoiding dust generation. Do not breathe dust.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Measures to prevent fire, aerosol and dust generation Use of local and general ventilation. Specific Notices/Indications No.

Advice on general occupational hygiene

Do not eat, drink or smoke in work area. Wash hands after use. Preventive skin protection (barrier creams/ointments) is recommended. Contaminated clothing and protective equipment before entering areas where eating will take place take off.

Further information on handling

Measures to protect the environment Avoid release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Incompatible materials: see section 10. Store away from acids. Do not store together with: Oxidizing agent, Strong acid, Strong alkali

Further information on storage conditions

Protect against external influences, such as heat consideration of other information Keep away from food, drink and animal feedingstuffs. ventilation requirements Ensure adequate ventilation. Special requirements for storage rooms or containers Keep container tightly closed in a well-ventilated place. Keep containers dry. Storage temperature maximum storage temperature: 35 °C Appropriate packaging Keep only in the original container. Suitable container material: stainless steel. Unsuitable materials: Glass and ceramic items. Follow the instructions for use on the label.

storage temperature of ___°C - ___°C.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

7.3. Specific end use(s)

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Water softener as part of the detergent modular system

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice on limit values

To date, no national critical limit values exist.

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable protective gloves. A chemical protection glove tested according to EN 374 is suitable. Check for leaks/tightness before use. If intending to reuse gloves, clean them before removing them and wash them well afterwards air through. It is recommended to check the chemical resistance of the above protective gloves for special Clarify applications with the glove manufacturer. Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Use protective skin cream before handling the product.

Skin protection

Overall (Natural fibres (e.g. cotton))

Respiratory protection

In case of insufficient ventilation wear respiratory protection. P3 (filters at least 99.95% of airborne particles, color code: white). Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

To avoid environmental contamination use a proper container. Prevent entry into drains or surface and ground water.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|-----------|
| Physical state: | fest |
| Colour: | weiß |
| Odour: | geruchlos |

| | | |
|----------------------|-----------------------|--------------------|
| Flash point: | | Test method |
| pH-Value (at 20 °C): | 11,3 (1%) | DIN 53213 |
| Density (at 20 °C): | 0,9 g/cm ³ | DIN 53217 |

9.2. Other information

Other safety characteristics

Solvent separation test: <3 % (Land transport (ADR/RID))

Further Information

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Further physical-chemical data were not determined.

SECTION 10: Stability and reactivity**10.1. Reactivity**

No reactions when handled properly.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No reactions when handled properly.

10.4. Conditions to avoid

Not known.

10.5. Incompatible materials

Acids

10.6. Hazardous decomposition products

Reasonably foreseeable hazardous decomposition products which may occur during use, storage, Spilling and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

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

| CAS No | Chemical name | | | | | |
|----------|------------------|---------------|---------|--------|--------|--|
| | Exposure route | Dose | Species | Source | Method | |
| 497-19-8 | sodium carbonate | | | | | |
| | oral | LD50 mg/kg | 4090 | Rat | IUCLID | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause respiratory irritation. (Sodium Silicate (2,6<MV<=3,2))

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**Endocrine disrupting properties**

The product does not contain any substance that has endocrine properties in humans.

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

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SECTION 12: Ecological information

12.1. Toxicity

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

| CAS No | Chemical name | | | | | |
|----------|--------------------------|---------------|-----------|---------------------|--------|--------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 497-19-8 | sodium carbonate | | | | | |
| | Acute fish toxicity | LC50 300 mg/l | 96 h | Lepomis macrochirus | | |
| | Acute crustacea toxicity | EC50 265 mg/l | 48 h | Daphnia magna | IUCLID | |

12.2. Persistence and degradability

Biodegradability No testing required as the relevant substances in the mixture are inorganic. persistence No data is available.

12.3. Bioaccumulative potential

No bioaccumulation potential.

12.4. Mobility in soil

No relevant data available.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste treatment methods This product and its container must be disposed of as hazardous waste. Information relevant to disposal via waste water Do not empty into drains. Waste treatment of containers/packaging Completely emptied packaging can be recycled. Contaminated packaging should be treated like the substance. Remarks Please note the relevant national or regional regulations. Do not allow to enter into surface water or drains.

Recycle according to official regulations.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

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14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**Marine transport (IMDG)****14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.**14.4. Packing group:** No dangerous good in sense of this transport regulation.**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

Additional information

Einschlägige Bestimmungen der Europäischen Union (EU)

Beschränkungen gemäß REACH, Anhang XVII

Kein Bestandteil ist gelistet.

Verzeichnis der zulassungspflichtigen Stoffe (REACH, Anhang XIV) / SVHC -

Kandidatenliste

Kein Bestandteil ist gelistet.

Seveso Richtlinie

Nicht zugeordnet.

Richtlinie 2011/65/EU zur Beschränkung der Verwendung bestimmter gefährlicher Stoffe

in Elektro- und Elektronikgeräten (RoHS) - Anhang II

Kein Bestandteil ist gelistet.

Verordnung 166/2006/EG über die Schaffung eines Europäischen Schadstofffreisetzungsund

-verbringungsregisters (PRTR)

Kein Bestandteil ist gelistet.

Wasserrahmenrichtlinie (WRR)

Nicht alle Bestandteile sind gelistet.

Verordnung 98/2013/EU über die Vermarktung und Verwendung von Ausgangsstoffen für

Explosivstoffe

Kein Bestandteil ist gelistet.

Verordnung 1005/2009/EG über Stoffe, die zum Abbau der Ozonschicht führen (ODS)

Kein Bestandteil ist gelistet.

Verordnung 649/2012/EU über die Aus- und Einfuhr gefährlicher Chemikalien (PIC)

Kein Bestandteil ist gelistet.

National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

Additional information

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Observe in addition any national regulations!

15.2. Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information**Key literature references and sources for data**

Regulations: Preparations Directive (1999/45/EG), last amended by Regulation (EG) No. 1907/2006
 Substances Directive (67/548/EEC), last amended by Directive 2009/2/EC REACH Regulation (EC) No.
 1907/2006, last amended by Regulation (EU) No. 253/2011 CLP regulation 1272/2008 Internet
<http://www.baua.de> <http://www.arbeitssicherheit.de> <http://gestis.itrust.de>

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|---------------------|--------------------------|
| Skin Irrit. 2; H315 | Calculation method |
| Eye Irrit. 2; H319 | Calculation method |
| STOT SE 3; H335 | Calculation method |

Relevant H and EUH statements (number and full text)

H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.
 Instruction/training of employees required for handling hazardous substances.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)