

SAFETY DATA SHEET according to regulation 1907/2006

Product name: SpaBalancer SoftWater Pad

Creation date: 08.10.2019, Revision: 25.06.2022, version: 1.2

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name

SpaBalancer SoftWater Pad



<https://my.chemius.net/p/SGHLK3/en/pd/en>

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

Relevant identified uses

Ion exchanger, resin, catalyst.

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SpaBalancer GmbH

Verbindungsweg 42

D-25469 Halstenbek, Germany

+49(0)4101 - 37 444 80

info@spabalancer.com

1.4 Emergency Telephone Number

Emergency

112

Supplier

+49(0)4101 - 37 444 80

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

According to the regulation, the chemical is not classified as hazardous.

2.2 Label elements

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

Pictograms not applicable according to Regulation 1272/2008.

2.3 Other hazards

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

The product does not contain dangerous substances or ingredients, which would need to be declared on the safety data sheet.

Product description

Styrene-divinylbenzene copolymer with sulfonic acid groups in sodium form.

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Victim should rest in a warm place. Keep at rest in a position comfortable for breathing. Loosen tight clothing such as a collar, tie, belt. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. If symptoms develop and persist, seek medical attention.

Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention. Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. After initial flushing, remove any contact lenses and continue flushing. If irritation persists, seek professional medical attention.

Following ingestion

Rinse mouth thoroughly with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting! Remove patient to fresh air. Keep person warm and at rest. The affected person should stop drinking water if he/she feels sick, because of risk of vomiting. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. In case of doubt or if feeling unwell seek medical help. Loosen tight clothing such as a collar, tie, belt or waistband.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Breathing dust can irritate the respiratory tract. Coughing, sneezing, nasal discharge, labored breathing.

Following skin contact

Contact with skin may cause irritation (redness, itching).

Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

Following ingestion

May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Foam. Dry chemicals.
Carbon dioxide (CO₂).
Water spray.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke. In the event of fire the following can be generated: carbon monoxide (CO), carbon dioxide (CO₂).

Metallic oxides.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool the endangered containers with water spray. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

No information.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8).

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

Prevent access to unprotected personnel. Avoid contact with skin, eyes and clothing. Do not breathe vapour or mist.

Danger of slipping on spilled product.

For emergency responders

Use personal protective equipment.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. If accidental large entry into water or ground occurs, inform responsible authorities.

6.3 Methods and material for containment and cleaning up

For containment

No information.

For cleaning up

Move containers from spill area. Take up mechanically and collect in suitable container and dispose according to current regulations. Dispose in accordance with applicable regulations (see Section 13).

OTHER INFORMATION

No information.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE**7.1 Precautions for safe handling****Protective measures****Measures to prevent fire**

Ensure adequate ventilation. Take precautionary measures against static discharges.

Measures to prevent aerosol and dust generation

Avoid formation of dust.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

Observe the usual precautionary measures when handling chemicals. Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not ingest the product. Avoid contact with skin, eyes and clothes. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse.

7.2 Conditions for safe storage, including any incompatibilities**Technical measures and storage conditions**

Store in accordance with local regulations. Keep in tightly closed container. Keep in a cool, dry and well ventilated place. Storage temperature: -20°C to +40°C. Keep away from food, drink and animal feeding stuffs. Keep out of the reach of children. Do not store in open or unlabelled containers. Do not let dry out.

Packaging materials

The original container of producer. Keep in containers of the same material as the original one.

Requirements for storage rooms and vessels

Keep the packaging tightly closed and sealed until use. Close opened containers after use. Put the containers upright to prevent from leaking. Use appropriate container to avoid environmental contamination.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)**Recommendations**

Empty containers retain product residue and can be hazardous. See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Occupational Exposure limit values**

| Name | mg/m ³ | ml/m ³ | Short-term value mg/m ³ | Short-term value ml/m ³ | Remark | Biological Tolerance Values |
|---------|-------------------|-------------------|---------------------------------------|---------------------------------------|-----------------|--------------------------------|
| Product | 8 | / | / | / | Inhalable dust | / |
| Product | 4 | / | / | / | respirable dust | / |

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Do not breathe dust.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

If this product contains ingredients with exposure limits, personal, workplace atmosphere monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protection. Remove all contaminated clothes immediately and wash them before reuse. Appropriate techniques should be used to remove potentially contaminated clothing.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

No requirements under normal use conditions. If there is a risk of eye contact use safety glasses. Tight fitting protective goggles (EN 166).

Hand protection

Protective gloves (EN 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

| Material | Thickness | Penetration Time | Remark |
|--------------------|-----------|------------------|--------|
| PVC | / | < 1 h | / |
| nitrile rubber | / | / | / |
| chloroprene rubber | / | / | / |

Skin protection

No requirements under normal use conditions. With excessive exposure wear protective working clothing (overalls and boots). Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). Personal protective equipment for the body and suitable footwear should be chosen according to the task to be performed and the risks involved and it is recommended that it be validated by a specialist before handling the product.

Respiratory protection

Not needed under normal use and adequate ventilation. In case of high dust concentrations use a dust protection mask (EN 136) with filter P2 (EN 143). 'High/elevated concentrations' means that the occupational exposure limit values have been exceeded.

Thermal hazards

None under normal use conditions.

Environmental exposure controls**Substance/mixture related measures to prevent exposure**

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards. In order to maintain emissions at acceptable rates if necessary to equip the manufacturing material with air purifier or filter, or by technical change.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

solid - granules

Colour

dark brown

Odour

weak, characteristic

Important health, safety and environmental information

| | |
|-------------------------------------|--|
| Odour threshold | No information. |
| pH | 8 , conc. 10 % |
| Melting point/Freezing point | No information. |
| Initial boiling point/boiling range | No information. |
| Flash point | No information. |
| Evaporation rate | No information. |
| Flammability (solid, gas) | (Not flammable (20°C, 100°C, VDI 2263).) |
| Explosion limits (vol%) | No information. |
| Vapour pressure | No information. |
| Vapour density | No information. |
| Density / weight | Density: 1.28 kg/L at 20 °C Bulk density: 805 kg/m ³ |
| Solubility | Water: Insoluble |
| Partition coefficient | No information. |
| Auto-ignition temperature | No information. |
| Decomposition temperature | No information. |
| Viscosity | No information. |
| Explosive properties | No information. |
| Oxidising properties | Not oxidising. |

9.2 OTHER INFORMATION

No information.

Other information

Ignition temperature: > 250°C.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions occur under normal conditions of storage and use. Reacts with strong oxidising agents.

10.4 Conditions to avoid

Follow directions for use and storage. Take precautionary measures against static discharges. Avoid contact with incompatible materials.

10.5 Incompatible materials

Strong oxidising agents.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For product

| Exposure route | Type | Species | Time | value | Method | Remark |
|----------------|------------------|---------|------|--------------|--------|--------|
| oral | LD ₅₀ | rat | / | > 5000 mg/kg | / | / |

Additional information

The product is not classified for acute toxicity.

(b) Skin corrosion/irritation

For product

| Species | Time | result | Method | Remark |
|---------|------|---------------|--------|--------|
| / | / | Non-irritant. | / | / |

Additional information

The product is not classified as irritating to the skin.

(c) Serious eye damage/irritation

For product

| Species | Time | result | Method | Remark |
|---------|------|---------------|--------|--------|
| / | / | Non-irritant. | / | / |

Additional information

The product is not classified as an irritant to the eyes.

(d) Respiratory or skin sensitisation

No information.

Additional information

The product is not classified as sensitising.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

No information.

Additional information

STOT SE (single exposure): Not classified.

(i) STOT-repeated exposure

No information.

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

No information.

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

No information.

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 Bioaccumulative potential

Partition coefficient

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

Additional information

Insoluble in water.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Other adverse effects

The product contains no absorbable organic halogens (AOX).

12.7 Additional information**For product**

Avoid release to the environment. Water hazard class 1 (self-assessment): slightly hazardous for water.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product / Packaging disposal****Waste chemical**

The generation of waste should be avoided or minimised wherever possible. Do not allow product to reach drains/sewage systems. Dispose of in accordance with applicable waste disposal regulation. Dispose the product to an authorised collector/remover of waste/company performing waste recovery.

Waste codes / waste designations according to LoW

No information.

Packaging

Dispose of in accordance with applicable waste disposal regulation. Deliver completely emptied containers to approved waste disposal authorities. Empty containers or liners may contain product residues. Cleaned uncontaminated packaging may be taken for recycling.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

Incineration or landfill should only be considered when recycling is not feasible.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

| ADR/RID | IMDG | IATA | ADN |
|---|---|---|---|
| 14.1 UN number | | | |
| Not dangerous according to transport regulations. | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. |
| 14.2 UN proper shipping name | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |
| 14.3 Transport hazard class(es) | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |

| | | | |
|---|--|--------------------------|--|
| 14.4 Packing group | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |
| 14.5 Environmental hazards | | | |
| NO | NO | NO | NO |
| 14.6 Special precautions for user | | | |
| Limited quantities Not given/not applicable | Limited quantities Not given/not applicable | | Limited quantities Not given/not applicable |
| 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |

SECTION 15: REGULATORY INFORMATION

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2015/830)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

List of substances subject to authorisation (REACH, Annex XIV): none. The product is not affected by Directive 2012/18/EU (SEVESO III).

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

MSDS, LEWATIT S 1567, 31.03.2014

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

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

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW – see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
LR - Lead Registrant
M/I - Manufacturer / Importer
MS - Member States
MSDS - Material Safety Data Sheet
OC - Operational Conditions
OECD - Organization for Economic Co-operation and Development
OEL - Occupational Exposure Limit
OJ - Official Journal
OR - Only Representative
OSHA - European Agency for Safety and Health at work
PBT - Persistent, Bioaccumulative and Toxic substance
PEC - Predicted Effect Concentration
PNEC(s) - Predicted No Effect Concentration(s)
PPE - Personal Protection Equipment
(Q)SAR - Qualitative Structure Activity Relationship
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
RIP - REACH Implementation Project
RMM - Risk Management Measure
SCBA - Self-Contained Breathing Apparatus
SDS - Safety data sheet
SIEF - Substance Information Exchange Forum
SME - Small and Medium sized Enterprises
STOT - Specific Target Organ Toxicity
(STOT) RE - Repeated Exposure
(STOT) SE - Single Exposure
SVHC - Substances of Very High Concern
UN - United Nations
vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

No information.