

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name

Hardness stabiliser liquid

SDS-Ref

07553

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

Relevant identified uses

Water treatment chemical
Professional use
Consumer use (private households)**1.3 Details of the supplier of the safety data sheet**Steinbach VertriebsgmbH
Aistinger Straße 2
43111 Schwertberg
Austria
Telephone: +43 7262 61431 0
e-Mail: info@steinbach.at
e-Mail (competent person): sdb@steinbach.at**1.4 Emergency telephone number**

| Country | Name | Postal code/city | Telephone | Opening hours |
|----------------|--------------------------------------|------------------|----------------------|---------------|
| Austria | Vergiftungsinformationszentrale | 1090 Wien | +43 1 406 4343 (24h) | |
| United Kingdom | National Poisons Information Service | | 111 (24h) | |

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

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

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

2.2 Label elements

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

Not required.

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not relevant (mixture).

3.2 Mixtures

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

SECTION 4: First aid measures**4.1 Description of first aid measures**

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Take off immediately all contaminated clothing. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

Mouth to mouth resuscitation should be avoided. Use alternative methods, preferably with oxygen or compressed air driven apparatus. If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In all cases of doubt, or when symptoms persist, seek medical advice.

Following ingestion

Rinse mouth with water (only if the person is conscious). Let be drunken in little sips: 0,1-0,2l Water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO₂), Phosphorus oxides (P_xO_y)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel

Remove persons to safety. Ventilate affected area.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: Sawdust, Kieselgur (diatomite), Sand, Universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

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

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use only in well-ventilated areas. Use local and general ventilation.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Control of effects

- Protect against external exposure, such as

High temperatures, Frost, UV-radiation/sunlight

Packaging compatibilities

Professional use: Keep only in the original container. Consumer use (private households): Keep only in original container.

Conditions of storage

Keep container tightly closed in a cool place. Protect from sunlight. Keep away from children.

7.3 Specific end use(s)

There is no additional information.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

This information is not available.

8.2 Exposure controls (professional use)

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

- Eye/face protection

Use safety goggle with side protection.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. 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.

- Type of material

PVC: polyvinyl chloride, NR: natural rubber, latex

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

In case of inadequate ventilation wear respiratory protection

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|----------------|----------------|
| Physical state | liquid |
| Colour | light yellow |
| Odour | characteristic |

Other safety parameters

| | |
|---|---|
| pH (value) | 8 (20 °C) |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | 100 °C |
| Flash point | not determined |
| Evaporation rate | not determined |
| Flammability (solid, gas) | not relevant (fluid) |
| Explosive limits | not determined |
| Vapour pressure | 32 Pa at 25 °C |
| Density | 1.045 g/cm ³ at 20 °C |
| Vapour density | this information is not available |
| Auto-ignition temperature | >250 °C (auto-ignition temperature (liquids and gases)) |
| Viscosity | not determined |
| Explosive properties | none |
| Oxidising properties | none |

Solubility(ies)

| | |
|--------------------|----------------------------|
| - Water solubility | miscible in any proportion |
|--------------------|----------------------------|

Partition coefficient

| | |
|-----------------------------|-----------------------------------|
| - n-Octanol/water (log KOW) | this information is not available |
|-----------------------------|-----------------------------------|

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

9.2 Other information

There is no additional information.

Temperature class (EU, acc. to ATEX)

T3 (maximum permissible surface temperature on the equipment: 200°C)

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

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information**12.1 Toxicity**

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Endocrine disrupting potential

None of the ingredients are listed.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations

Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste.

Relevant provisions relating to waste

List of wastes (EU), Decision 2000/532/EC on the list of waste

Product Code/ Type of waste: 19 09 99

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

SECTION 14: Transport information

- 14.1 UN number** not subject to transport regulations
- 14.2 UN proper shipping name** not relevant
- 14.3 Transport hazard class(es)** none
- 14.4 Packing group** not assigned to a packing group
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**
There is no additional information.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**
The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG)

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR)

Not subject to ICAO-IATA.

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list

None of the ingredients are listed.

Seveso Directive

| No | Dangerous substance/hazard categories |
|----|---------------------------------------|
| | not assigned |

Deco-Paint Directive (2004/42/EC)

| | |
|-------------|-----|
| VOC content | 0 % |
|-------------|-----|

Directive on industrial emissions (VOCs, 2010/75/EU)

| | |
|-------------|----------|
| VOC content | 0.0002 % |
|-------------|----------|

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

None of the ingredients are listed.

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

None of the ingredients are listed.

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

None of the ingredients are listed.

National inventories

| Country | Inventory | Status |
|---------|------------|----------------------------|
| EU | REACH Reg. | all ingredients are listed |

Legend

REACH Reg. REACH registered substances

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|--|--|-----------------|
| 7.2 | Protect against external exposure, such as: High temperatures, Frost, Humidity, UV-radiation/sunlight | - Protect against external exposure, such as: High temperatures, Frost, UV-radiation/sunlight | yes |
| 7.2 | Packaging compatibilities: Professional use: Consumer use (private households): Keep only in original container. | Packaging compatibilities: Professional use: Keep only in the original container. Consumer use (private households): Keep only in original container. | yes |
| 7.3 | Specific end use(s): See section 16 for a general overview. | Specific end use(s): There is no additional information. | yes |
| 9.1 | Solubility(ies) | | yes |
| 9.1 | Water solubility: miscible in any proportion | | yes |
| 9.1 | Partition coefficient | | yes |
| 9.1 | - n-octanol/water (log KOW): this information is not available | | yes |
| 9.1 | Auto-ignition temperature: >250 °C (auto-ignition temperature (liquids and gases)) 326 °C (relative self-ignition temperature for solids) | Auto-ignition temperature: >250 °C (auto-ignition temperature (liquids and gases)) | yes |
| 9.1 | Oxidising properties: none | | yes |
| 9.1 | | Oxidising properties: none | yes |
| 9.1 | | Solubility(ies) | yes |
| 9.1 | | Water solubility: miscible in any proportion | yes |
| 9.1 | | Partition coefficient | yes |
| 9.1 | | n-Octanol/water (log KOW): this information is not available | yes |
| 9.2 | Other information | Other information: There is no additional information. | yes |
| 13.1 | Professional use: Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste. | | yes |
| 13.1 | Consumer use (private households): Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste. | | yes |

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|--|-----------------|
| 13.1 | | Other disposal recommendations: Dispose of contents/container to hazardous or special waste collection point. Waste treatment of containers/packagings: Mixed municipal waste. | yes |
| 13.1 | | Relevant provisions relating to waste | yes |
| 13.1 | | List of wastes (EU), Decision 2000/532/EC on the list of waste: Product Code/ Type of waste: 19 09 99 | yes |
| 14.4 | Packing group: not relevant | Packing group: not assigned to a packing group | yes |
| 15.1 | Restrictions according to REACH, Annex XVII: none of the ingredients are listed | | yes |
| 15.1 | VOC content: 0.0025 % | VOC content: 0 % | yes |
| 15.1 | VOC content: 0 % | VOC content: 0.0002 % | yes |

Abbreviations and acronyms

| Abbr. | Descriptions of used abbreviations |
|----------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| PBT | Persistent, Bioaccumulative and Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| SVHC | Substance of Very High Concern |
| VOC | Volatile Organic Compounds |
| vPvB | very Persistent and very Bioaccumulative |

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards, Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Hardness stabiliser liquid

Version number: GHS 3.0 (2020-03-23)

Replaces version: GHS 2 (2019-02-22)

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.