

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

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

- **1.1 Product identifier**
- **Trade name:** **BWT Smart Mineral LSi**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Water treatment
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BWT AQUA AG  
Hauptstrasse 192  
CH-4147 Aesch  
Tel.: +41/61/755 88 99  
Fax: +41/61/755 88 90  
email: msds-ch@bwt-aqua.ch  
BWT Holding GmbH  
Walter-Simmer-Straße 4  
A - 5310 Mondsee  
AUSTRIA  
Tel.: +43/6232/5011-0  
Fax: +43/6232/4058  
email: office@bwt.at
- **Further information obtainable from:**  
Abteilung F&E - Chemikalienbeauftragte(r)  
Tel.: +43/6232/5011-1893  
+43/6232/5011-1427  
e-mail: msds-info@bwt-group.com
- **1.4 Emergency telephone number:**  
Poison center Vienna  
Tel.: +43/1-406 43 43

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture contains no hazardous ingredients
- **Dangerous components:** Void
- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

DE/EN

(Contd. on page 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 1)

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · General information:

*In case of doubt or if symptoms persist, consult a doctor.*

*Personal protection for the First Aider.*

*No special measures required.*

· **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*

##### · After skin contact:

*If symptoms occur, seek medical attention.*

*In case of contact with skin, wash off immediately with plenty of soap and water.*

*Remove soiled, soaked clothing immediately.*

##### · After eye contact:

*Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.*

*Remove any contact lenses if possible.*

##### · After swallowing:

*Rinse out mouth and then drink plenty of water.*

*Do not induce vomiting; call for medical help immediately.*

*Call for a doctor immediately.*

*Never give anything by mouth to an unconscious person or in the event of convulsions.*

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

#### · 4.3 Indication of any immediate medical attention and special treatment needed

*Ingestion with subsequent vomiting may result in aspiration into the lungs, which can lead to chemical pneumonia or asphyxiation.*

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · Suitable extinguishing agents:

*Use fire extinguishing methods suitable to surrounding conditions.*

*Water spray*

*Carbon dioxide*

*Fire-extinguishing powder*

*Foam*

· **For safety reasons unsuitable extinguishing agents:** *Water with full jet*

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

#### · 5.3 Advice for firefighters

##### · Protective equipment:

*Wear self-contained respiratory protective device.*

*Do not inhale explosion gases or combustion gases.*

##### · Additional information

*Heating leads to an increase in pressure and risk of bursting.*

*Cool endangered receptacles with water spray.*

*Collect contaminated fire fighting water separately. It must not enter the sewage system.*

*Take care when using carbon dioxide in enclosed areas; carbon dioxide can displace oxygen.*

### SECTION 6: Accidental release measures

#### · 6.1 Personal precautions, protective equipment and emergency procedures

*Avoid contact with eyes and skin.*

*Wear protective clothing.*

*Particular danger of slipping on leaked/spilled product.*

#### · 6.2 Environmental precautions:

*Do not allow to enter sewers/ surface or ground water.*

*Prevent from spreading (e.g. by damming-in or oil barriers).*

(Contd. on page 3)

DE/EN

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 2)

- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 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.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
The usual precautionary measures when handling chemicals must be observed.  
Avoid contact with skin and eyes.  
Use personal protective equipment.
- **Information about fire - and explosion protection:**  
The product is not flammable.  
Heating leads to an increase in pressure and risk of bursting.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Keep container tightly closed.  
Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Do not store together with acids.
- **Further information about storage conditions:** Storage temperature: +5 °C - +45 °C.
- **Storage class:** 12
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 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.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Do not eat, drink, smoke or sniff while working.  
Be sure to clean skin thoroughly after work and before breaks.  
The usual precautionary measures are to be adhered to when handling chemicals.  
Avoid contact with the eyes and skin.  
Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**  
Use suitable respiratory protective device only when aerosol or mist is formed.  
Filter P2
- **Hand protection**  
Wear gloves according to EN374.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
Butyl rubber, BR

(Contd. on page 4)

DE/EN

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 3)

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0,4$  mm
**· Penetration time of glove material**
Penetration time (maximum wearing time)  $\geq 480$  min

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

**· Eye/face protection** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

**· 9.1 Information on basic physical and chemical properties**
**· General Information**
**· Physical state**

Fluid

**· Colour:**

Colourless to yellowish

**· Odour:**

Odourless

**· Odour threshold:**

Not determined.

**· Melting point/freezing point:**

Undetermined.

**· Boiling point or initial boiling point and boiling range**
 $>100$  °C
**· Flammability**

Not applicable.

**· Lower and upper explosion limit**
**· Lower:**

Not determined.

**· Upper:**

Not determined.

**· Flash point:**

Not applicable.

**· Decomposition temperature:**

Not determined.

**· pH at 20 °C**

11

**· Viscosity:**
**· Kinematic viscosity**

Not determined.

**· Dynamic at 20 °C:**

70 mPas

**· Solubility**
**· water:**

Fully miscible.

**· Partition coefficient n-octanol/water (log value)**

Not determined.

**· Vapour pressure:**

Not determined.

**· Density and/or relative density**
**· Density at 20 °C:**
1,35 g/cm<sup>3</sup>
**· Relative density**

Not determined.

**· Vapour density**

Not determined.

**· 9.2 Other information**
**· Appearance:**
**· Form:**

Fluid

**· Important information on protection of health and environment, and on safety.**
**· Ignition temperature:**

Product is not selfigniting.

**· Explosive properties:**

Product does not present an explosion hazard.

**· Solvent content:**
**· Water:**

51,0 %

**· VOC (EC)**

0,00 %

**· Solids content:**

35,0 %

**· Change in condition**
**· Evaporation rate**

Not determined.

**· Information with regard to physical hazard classes**
**· Explosives**

Void

**· Flammable gases**

Void

**· Aerosols**

Void

**· Oxidising gases**

Void

(Contd. on page 5)

DE/EN

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 4)

|   |      |
|---|------|
| · Gases under pressure  | Void |
| · Flammable liquids   | Void |
| · Flammable solids  | Void |
| · Self-reactive substances and mixtures                                     | Void |
| · Pyrophoric liquids  | Void |
| · Pyrophoric solids   | Void |
| · Self-heating substances and mixtures                                      | Void |
| · Substances and mixtures, which emit flammable gases in contact with water | Void |
| · Oxidising liquids   | Void |
| · Oxidising solids  | Void |
| · Organic peroxides   | Void |
| · Corrosive to metals   | Void |
| · Desensitised explosives   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** The product is stable under normal storage conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Protect against: Frost.
- **10.5 Incompatible materials:**
  - Zinc
  - Tin
  - Aluminium
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### · LD/LC50 values relevant for classification:

**CAS: 1344-09-8 Wasserglaslösung (Molverhältnis > 3,2 und Feststoffgehalt ≤ 40 %)**

|        |      |                    |
|--------|------|--------------------|
| Oral   | LD50 | >2.000 mg/kg (rat) |
| Dermal | LD50 | >5.000 mg/kg (rat) |

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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

None of the ingredients is listed.

DE/EN

(Contd. on page 6)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 5)

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

**CAS: 1344-09-8 Wasserglaslösung (Molverhältnis > 3,2 und Feststoffgehalt ≤ 40 %)**

|          |   |
|----------|---|
| EC50     | 1.700 mg/L /48h (daphnia)               |
| ErC50    | 207 mg/l /72h (Scenedesmus subspicatus) |
| LC50/96h | 1.108 mg/l (Brachydanio rerio)          |

#### · 12.2 Persistence and degradability

No further relevant information available.

#### · 12.3 Bioaccumulative potential

No further relevant information available.

#### · 12.4 Mobility in soil

No further relevant information available.

#### · 12.5 Results of PBT and vPvB assessment

##### · PBT:

Not applicable.

##### · vPvB:

Not applicable.

#### · 12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

#### · 12.7 Other adverse effects

The product is an alkaline solution. Neutralisation is usually required before wastewater is discharged into the sewage treatment plant.

#### · Additional ecological information:

##### · General notes:

The product may not be released into the environment without control.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Dispose of in compliance with official regulations.

##### · European waste catalogue

|           |             |
|-----------|-------------|
| 06 02 05* | other bases |
|-----------|-------------|

##### · Uncleaned packaging:

##### · Recommendation:

Contaminated packaging must be treated in the same way as the substance.

### SECTION 14: Transport information

#### · 14.1 UN number or ID number

##### · ADR, IMDG, IATA

Void

#### · 14.2 UN proper shipping name

##### · ADR, IMDG, IATA

Void

#### · 14.3 Transport hazard class(es)

##### · ADR, ADN, IMDG, IATA

##### · Class

Void

#### · 14.4 Packing group

##### · ADR, IMDG, IATA

Void

#### · 14.5 Environmental hazards:

Not applicable.

#### · 14.6 Special precautions for user

Not applicable.

#### · 14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

(Contd. on page 7)



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 19.02.2024

Version number 1

Revision: 19.02.2024

**Trade name: BWT Smart Mineral LSi**

(Contd. of page 6)

· **UN "Model Regulation":**

Void

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I** None of the ingredients is listed.
 · **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**
 · **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

 · **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations:**· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

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