

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 10.02.2025

Version number 1

Revision: 10.02.2025

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



- **1.1 Product identifier**
- **Trade name:** **Bewasorb Multi**
- **UFI:** 7171-K0S8-5001-VM5Q
- **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 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  
email: 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.
- **Determination of endocrine-disrupting properties**  
This product does not contain ingredients with endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1% (w/w) or more.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.
- **Dangerous components:**

CAS: 7440-44-0	carbon	50-100%
EINECS: 231-153-3	substance with a Community workplace exposure limit	
CAS: 1313-13-9	manganese dioxide	≥2,5-<10%
EINECS: 215-202-6	 STOT RE 2, H373  Acute Tox. 4, H302; Acute Tox. 4, H332	

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· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### · 4.1 Description of first aid measures

##### · **General information:**

Never give anything by mouth to an unconscious person.

Symptoms of poisoning may only appear after many hours, therefore medical supervision is required for at least 48 hours after an accident.

##### · **After inhalation:**

Ensure fresh air supply.

Seek medical treatment in case of complaints.

##### · **After skin contact:**

Wash off with soap and water.

If skin irritation persists, consult a doctor.

##### · **After eye contact:**

Rinse opened eye for several minutes under running water.

Consult an ophthalmologist in case of discomfort, redness or impaired vision.

##### · **After swallowing:**

Rinse out mouth, spit out liquid.

Immediately drink 1 glass of water (approx. 200 ml) if you remain conscious.

Seek medical treatment.

Do not induce vomiting.

#### · **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**

If swallowed, gastric irrigation.

If necessary oxygen respiration treatment.

The effectiveness of medicines can be reduced by the adsorption effect of activated carbon.

Medical supervision for at least 48 hours.

### SECTION 5: Firefighting measures

#### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

##### · **For safety reasons unsuitable extinguishing agents:** Full jet of water

#### · 5.2 Special hazards arising from the substance or mixture

Smoke may be produced during a fire. Products of combustion may contain carbon monoxide and carbon dioxide. Do not inhale smoke.

In the event of a fire, the following can be released:

Oxygen (fire promoting)

Manganese oxides

Silicate smoke

After a fire, embers may remain for some time.

Glowing activated carbon stored in a closed room for a longer period of time can lead to the accumulation of carbon monoxide to above the lower explosion limit.

#### · 5.3 Advice for firefighters

##### · **Protective equipment:**

Wear self-contained breathing apparatus in accordance with EN 137.

Wear full protective suit according to EN 469.

Do not inhale explosion and combustion gases.

##### · **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Ensure adequate ventilation.  
 Avoid formation of dust.  
 Keep away from ignition sources.  
 Keep people at a distance and stay on the windward side.
- **6.2 Environmental precautions:**  
 Do not allow to enter sewers/ surface or ground water.  
 Dike larger quantities so that nothing gets into the water or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
 Avoid dust formation.  
 Ensure adequate ventilation.
- **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**  
 Avoid dust formation during open handling.  
 Ensure good ventilation of the warehouse and workplace.  
 Substance/product is oxidising when dry.  
 Fire hazard when mixed with organic substances.  
 Open and handle container with care.
- **Information about fire - and explosion protection:** Keep away from heat sources.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Store only in the original receptacle.  
 Store in a well-ventilated place.  
 Store in a cool and dry place.
- **Information about storage in one common storage facility:**  
 Store away from flammable substances.  
 Store away from oxidising agents.  
 Store away from foodstuffs.
- **Further information about storage conditions:** Store under lock and key and out of the reach of children.
- **Storage class:** 11
- **Classification according to the German Ordinance on Industrial Safety and Health (BetrSichV):** -
- **7.3 Specific end use(s)** For industrial and commercial applications only.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

#### · DNELs

##### CAS: 7440-44-0 carbon

Inhalative	DNEL inhalativ	0,9 mg/m <sup>3</sup> (general population)
		1,84 mg/m <sup>3</sup> (worker)

##### CAS: 1313-13-9 manganese dioxide

Dermal	DNEL dermal	0,00414 mg/kg bw/day (worker)
		Long term exposure

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Inhalative	DNEL inhalativ	0,2 mg/m <sup>3</sup> (worker) Long term exposure repeated dose toxicity
· <b>Ingredients with biological limit values:</b>		
<b>CAS: 1313-13-9 manganese dioxide</b>		
BGW (Germany)	20 µg/l	Test material: whole blood Sampling time: in case of long-term exposure: at the end of the shift after several previous shifts, end of exposure or end of the shift Parameter: Manganese

· **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.

Ensure adequate ventilation, especially in closed rooms.

· **Respiratory protection:**

Filter P2

EN 140

· **Hand protection**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

according to EN 374

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

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**

A protective mask complying with standard EN 166 must be worn whenever working with powder or dust.

· **Body protection:** Apron according to EN 14605

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Solid

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

Undetermined.

· **Boiling point or initial boiling point and boiling range**

Undetermined.

· **Flammability**

Not determined.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

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· <b>pH</b>	Not applicable.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not applicable.
· <b>Dynamic:</b>	Not applicable.
· <b>Solubility</b>	
· <b>water:</b>	Insoluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Bulk density at 20 °C:</b>	600 kg/m <sup>3</sup>
· <b>Vapour density</b>	Not applicable.
· <b>Particle characteristics</b>	See section 3.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Granulate
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>Solids content:</b>	100,0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Develops chlorine gas with hydrochloric acid.  
Reacts with a wide range of reducing agents.
- **10.2 Chemical stability**
- **Information on the shelf life**  
Stable under specified storage conditions.  
No tendency to polymerise.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **10.3 Possibility of hazardous reactions**  
Possible dangerous reactions can occur with oxidizing agents.  
Reacts with peroxides.
- **10.4 Conditions to avoid**  
Dust formation  
Heat exposure  
Humidity
- **10.5 Incompatible materials:**  
strong acids  
strong oxidising agents  
Reductive  
Solvents  
combustible substances
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Oxygen  
Manganese oxides

### 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: 7440-44-0 carbon**

Oral	LD50	>2.000 mg/kg (rat)
Inhalative	LC50/4 h	>64,4 mg/l (rat)

- **Primary irritant effect:**
- **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**  
May cause damage to organs through prolonged or repeated exposure.  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
Dust produced by mechanical processing may cause irritation when inhaled or in contact with the eyes.  
14808-60-7 Quartz (dust particles < 5 µm): Target organ: Lungs, clinical picture of silicosis, granuloma formation in the further course, increased susceptibility to lung cancer and tuberculosis.  
1313-13-9 Manganese dioxide: Target organs: central nervous system, respiratory tract, eyes, effects of chronic manganese poisoning in humans: feeling of weakness, fine-beat tremor, slow monotone voice, mask face, Parkinson's-like symptoms, tendency to respiratory and lung diseases. Reproductive toxicity (inhalation, mouse): At exposure 75 days before mating of 49 mg/m<sup>3</sup>/7 h effects on offspring noticeable.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.

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- **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**
- **Additional ecological information:**
- **According to the formulation contains the following heavy metals and compounds from the EU guideline NO. 2006/11/EC:**  
Manganese
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

\*

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation** Dispose of in compliance with official regulations.
- |                                 |                                |
|---------------------------------|--------------------------------|
| <b>European waste catalogue</b> |                                |
| 19 09 99                        | wastes not otherwise specified |
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.
  - **Recommended cleansing agents:** Water

\*

### SECTION 14: Transport information

- |   |                                    |
|---|------------------------------------|
| · <b>14.1 UN number or ID number</b>                                  |                                    |
| · <b>ADR, IMDG, IATA</b>  | Void                               |
| · <b>14.2 UN proper shipping name</b>                                 |                                    |
| · <b>ADR, IMDG, IATA</b>  | Void                               |
| · <b>14.3 Transport hazard class(es)</b>                              |                                    |
| · <b>ADR, ADN, IMDG, IATA</b>   |                                    |
| · <b>Class</b>  | Void                               |
| · <b>14.4 Packing group</b>   |                                    |
| · <b>ADR, IMDG, IATA</b>  | Void                               |
| · <b>14.5 Environmental hazards:</b>                                  | Not applicable.                    |
| · <b>14.6 Special precautions for user</b>                            | Not applicable.                    |
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                    |
| · <b>Transport/Additional information:</b>                            |                                    |
| · <b>ADR</b>  |                                    |
| · <b>Remarks:</b>   | SV 646 Wasserdampfaktivierte Kohle |
| · <b>UN "Model Regulation":</b>                                       | Void                               |

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### 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**  
The product is classified and labelled in accordance with the CLP Regulation.
- **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:**

- **TRGS 559** Quartz dust
- **TRGS 906** List of carcinogenic activities or processes according to §3 para. 2 no. 3 GefStoffV.

· **Technical instructions (air):**

Class	Share in %
III	2,5-10

· **Waterhazard class:** Water hazard class 2 (Self-assessment): 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.

This safety data sheet complies with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· **Relevant phrases**

H302 Harmful if swallowed.

H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

· **Date of previous version:** 04.02.2025

· **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)

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*DNEL: Derived No-Effect Level (REACH)**LC50: Lethal concentration, 50 percent**LD50: Lethal dose, 50 percent**PBT: Persistent, Bioaccumulative and Toxic**vPvB: very Persistent and very Bioaccumulative**Acute Tox. 4: Acute toxicity – Category 4**STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2**· \* **Data compared to the previous version altered.***

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