

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Printing date 16.07.2024

Version number 3 (replaces version 2)

Revision: 16.07.2024

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

- **1.1 Product identifier**
- **Trade name:** **Bewasorb A-RAS**
- **CAS Number:**  
7440-44-0
- **UFI:** SGP0-W0JN-100H-6QQ8
- **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 substance 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**  
Dust generated by mechanical processing can cause irritation if inhaled or if it comes into contact with the eyes.  
Moist activated carbon extracts oxygen from the air. This can result in dangerously low oxygen levels.  
When people enter a container with activated carbon, the oxygen content should be determined and the rules for areas with low oxygen content should be applied.
- **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

- **3.1 Substance**
- **CAS No. Description**  
CAS: 7440-44-0 carbon
- **Identification number(s)** REACH: 01-2119488894-16-0013

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**Trade name: Bewasorb A-RAS**
· **EC number:** 231-153-3

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### 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.
- **After inhalation:**  
Supply fresh air; consult doctor in case of complaints.  
If breathing is irregular or stops, give artificial respiration and call a doctor.
- **After skin contact:**  
Generally the product does not irritate the skin.  
Remove contaminated clothing and shoes.  
Wash off with soap and water.  
If symptoms occur, seek medical attention.
- **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 and then drink plenty of water.  
Never administer anything by mouth to an unconscious person.  
Consult a doctor if symptoms persist.  
Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
If large amounts are taken orally, constipation may occur.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
The effectiveness of medicines can be reduced by the adsorption effect of activated carbon.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Carbon dioxide  
Spray water  
Water haze  
Foam  
Fire-extinguishing powder  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:**  
Do not use water to extinguish fires in enclosed areas.  
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Fire often produces dense, black smoke. Exposure to decomposition products can be harmful to health. Do not inhale smoke.  
Carbon monoxide (CO)  
Carbon dioxide (CO<sub>2</sub>)  
Other unknown decomposition products of used activated carbon.  
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 respiratory protective device.  
Wear fully protective suit.

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## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid formation of dust.  
Ensure adequate ventilation
- **For emergency responders**  
The operating personnel must be equipped with appropriate personal protective equipment (see section 8).
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Pick up mechanically.  
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**  
Prevent formation of dust.  
Wash hands before breaks and at the end of work.  
Use only in well ventilated areas.  
Keep away from heat and direct sunlight.  
Never walk into an unventilated container that contains activated charcoal, as activated charcoal consumes oxygen and can cause asphyxiation
- **Information about fire - and explosion protection:** Keep ignition sources away - do not smoke.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store in a well-ventilated place.  
Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
Do not store together with acids.  
Store separately from solvents.  
Store away from oxidising agents.  
Store away from flammable substances.
- **Further information about storage conditions:**  
Store in dry conditions.  
Keep container tightly sealed.  
Storing moist activated charcoal in closed rooms removes oxygen from the air.
- **Storage class:** 11
- **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:

CAS: 7440-44-0 carbon

AGW (Germany)	Long-term value: 1,25* 10** mg/m <sup>3</sup> 2(II); *alveolengängig**einatembare; AGS, DFG, Y
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#### · DNELs

CAS: 7440-44-0 carbon

Inhalative	DNEL inhalativ	0,9 mg/m <sup>3</sup> (general population)
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		1,84 mg/m <sup>3</sup> (worker)
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· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** Local venting recommended.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Wash hands thoroughly after use.

Ensure adequate ventilation, especially in closed rooms.

· **Respiratory protection:**

Do not inhale dust.

Filter FFP2

Dustfilter when dust develops.

Use suitable respiratory protective device when high concentrations are present.

· **Hand protection**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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**

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.

· **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.

Avoid contact with eyes.

· **Body protection:** Protective work clothing

## SECTION 9: Physical and chemical properties

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

· **General Information**

· **Physical state**

Solid

· **Colour:**

Black

· **Odour:**

Odourless

· **Odour threshold:**

Not determined.

· **Melting point/freezing point:**

~3.550 °C

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

4.827 °C

· **Flammability**

Product is not flammable.

· **Lower and upper explosion limit**

· **Lower:**

Not determined.

· **Upper:**

Not determined.

· **Flash point:**

Not applicable.

· **Decomposition temperature:**

Not determined.

· **pH**

Not applicable.

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· <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:</b>	540 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>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Organic solvents:</b>	0,0 %
· <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** The product shows no reactivity under normal conditions of storage, transport and use.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**
  - Reacts with flammable substances.
  - Reacts with oxidising agents.
- **10.4 Conditions to avoid**
  - Dust formation
  - Heat

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Humidity

Dust can form an explosive mixture with air.

**10.5 Incompatible materials:**

Solvents

combustible substances

Acids

Oxidising agent

**10.6 Hazardous decomposition products:**

Carbon monoxide

Carbon dioxide

### 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)

*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**

Substance is not listed.

### SECTION 12: Ecological information

**12.1 Toxicity**
*Aquatic toxicity:* Since activated carbon is insoluble in water, no toxicity is expected.

**12.2 Persistence and degradability**
*Activated carbon type HDS is a resistant material and is not susceptible to destruction by natural or enzymatic processes.*
*Activated carbon - HDS (HIGH SKELET DENSITY) cannot be converted into a soluble form that can be absorbed.*
*Therefore, activated carbon cannot find a way into cells where biodegradation is conceivable.*
**12.3 Bioaccumulative potential**
*The substance has a very low potential for bioaccumulation in aquatic species (e.g. fish), e.g. BCF < 10.*
*The substance has a particle size (> 0.5 µm) that does not pass through membranes and is not soluble in water. A study on bioaccumulation is therefore not feasible.*
**12.4 Mobility in soil** No data available as the substance is insoluble.

**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.*

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- 12.7 Other adverse effects
- Additional ecological information:
- General notes: Not hazardous for water.

### SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

#### · European waste catalogue

19 09 04	spent activated carbon
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- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

### 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:                                  |                 |
| · Marine pollutant:  | No              |
| · 14.6 Special precautions for user                            | Not applicable. |
| · 14.7 Maritime transport in bulk according to IMO instruments | Not applicable. |
| · Transport/Additional information:                            |                 |
| · ADR  |                 |
| · Remarks:   | SV 646          |
| · 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 Substance is not listed.
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
- Substance is not listed.

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· **REGULATION (EU) 2019/1148**

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

Substance is not listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

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

Substance is not listed.

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

Substance is not listed.

· **National regulations:**

· **Waterhazard class:** Generally not 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.

· **Date of previous version:** 16.07.2024

· **Version number of previous version:** 2

· **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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

· **\* Data compared to the previous version altered.**

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