

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

- **Product identifier**
- **Trade name:** **Minox S**
- **CAS Number:**  
1313-13-9
- **EC number:**  
215-202-6
- **Index number:**  
025-001-00-3
- **Relevant identified uses of the substance or mixture and uses advised against -**
- **Application of the substance / the preparation** Filter aid/ Filtration accelerator
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
BWT AG  
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 - Chemiebeauftragter  
Tel.: +43/6232/5011-1423  
Tel 2: +43/6232/5011-1427  
email: msds-info@bwt-group.com
- **Emergency telephone number:**  
Vergiftungsinformation Wien  
Tel.: +43/1-406 43 43

## 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H332 Harmful if inhaled.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
manganese dioxide
- **Hazard statements**  
H302 Harmful if swallowed.  
H332 Harmful if inhaled.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.

(Contd. on page 2)

**Trade name: Minox S**

(Contd. of page 1)

- P102 *Keep out of reach of children.*
- P103 *Read label before use.*
- P261 *Avoid breathing dust/fume/gas/mist/vapours/spray.*
- P264 *Wash thoroughly after handling.*
- P301+P312 *IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.*
- P304+P340 *IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
- P312 *Call a POISON CENTER or doctor/physician if you feel unwell.*
- P501 *Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
1313-13-9 manganese dioxide
- **Identification number(s)**
- **EC number:** 215-202-6
- **Index number:** 025-001-00-3

### 4 First aid measures

- **Description of first aid measures**
- **General information:**  
*Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.*
- **After inhalation:**  
*Supply fresh air.*  
*Call a doctor immediately.*
- **After skin contact:** *Immediately wash with water and soap and rinse thoroughly.*
- **After eye contact:** *Rinse opened eye for several minutes under running water. Then consult a doctor.*
- **After swallowing:**  
*Rinse out mouth and then drink plenty of water.*  
*Induce vomiting and call for medical help.*
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Special hazards arising from the substance or mixture**  
*In case of fire, the following can be released:*  
*Carbon monoxide (CO)*  
*carbon dioxide (CO<sub>2</sub>)*
- **Advice for firefighters**
- **Protective equipment:**  
*Wear self-contained respiratory protective device.*

(Contd. on page 3)

**Trade name: Minox S**

(Contd. of page 2)

Wear fully protective suit.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
 Avoid formation of dust.  
 Keep away from ignition sources.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
 Pick up mechanically.  
 Dispose contaminated material as waste according to item 13.  
 Ensure adequate ventilation.
- **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.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
 Thorough dedusting.  
 Ensure good ventilation/exhaustion at the workplace.  
 Prevent formation of dust.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
 Unsuitable material for receptacle: aluminium.  
 Store only in the original receptacle.
- **Information about storage in one common storage facility:**  
 Do not store together with acids.  
 Store away from oxidizing agents.  
 Store away from metals.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 10-13
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**
**1313-13-9 manganese dioxide**

WEL	Long-term value: 5 mg/m <sup>3</sup> as Mn
-----	---

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
 Keep away from foodstuffs, beverages and feed.  
 Wash hands before breaks and at the end of work.

(Contd. on page 4)

**Trade name: Minox S**

(Contd. of page 3)

- **Respiratory protection:**  
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.  
 Dustfilter when dust develops.  
 Filter P3
- **Protection of hands:**  
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
 Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
 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 protection:** Safety glasses
- **Body protection:** Light weight protective clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Powder
<b>Colour:</b>	Black
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	Not determined.
- **pH-value:** Not applicable.
- **Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Product is not flammable.
- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Self-igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**

<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
- **Vapour pressure:** Not applicable.
- **Density:** Not determined.
- **Relative density at 20 °C** 5.28 g/cm<sup>3</sup>
- **Vapour density** Not applicable.
- **Evaporation rate** Not applicable.
- **Solubility in / Miscibility with water:** Insoluble.

(Contd. on page 5)

**Trade name: Minox S**

(Contd. of page 4)

- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not applicable.
  - Kinematic:** Not applicable.
- **Solvent content:**
  - Organic solvents:** 0.0 %
  - VOC (EC)** 0.00 %
- **Solids content:** 100.0 %
- **Other information** No further relevant information available.

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**
  - Danger of explosion.
  - Reacts with oxidizing agents.
  - Reacts with reducing agents.
  - Reacts with acids.
  - Reacts with flammable substances.
  - Reacts with permonosulphuric acid
  - Acts as an oxidizing agent on organic materials such as wood, paper and fats.
  - Reacts with aluminium
  - Reacts with organic substances.
  - Reacts with peroxides.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Toxic metal oxide smoke

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - on the skin:** No irritant effect.
  - on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

(Contd. on page 6)

**Trade name: Minox S**

(Contd. of page 5)

 · **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **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 99	wastes not otherwise specified
----------	--------------------------------

- **Uncleaned packaging:**
- **Recommendation:**  
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b>   | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>UN proper shipping name</b>   | Void            |
| · <b>ADR, ADN, IMDG, IATA</b>  | Void            |
| · <b>Transport hazard class(es)</b>  |                 |
| · <b>ADR, ADN, IMDG, IATA</b>  |                 |
| · <b>Class</b>   | Void            |
| · <b>Packing group</b>   |                 |
| · <b>ADR, IMDG, IATA</b>   | Void            |
| · <b>Environmental hazards:</b>  |                 |
| · <b>Marine pollutant:</b>   | No              |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>  | -               |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Chemical Substance Control Law**

- **Existing Chemical Substances**

1313-13-9	manganese dioxide	1-475
-----------	-------------------	-------

- **Specified Chemical Substances**

Substance is not listed.

- **Monitoring /Type II Monitoring (before amendment) /Type III Monitoring (before amendment) Chemical Substances**

Substance is not listed.

- **Priority Assessment Chemical Substances**

Substance is not listed.

(Contd. on page 7)

**Trade name: Minox S**

(Contd. of page 6)

· **Chemical Substances Relating to a Public Notice Pursuant to The Provisions of Paragraph 4 of Article 4 of the Former Act**

Substance is not listed.

· **Biodegradation and Bioconcentration of Existing Chemical Substances**

Substance is not listed.

· **Toxicity Tests Results**

Substance is not listed.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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 européen sur le transport 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 Harmonized 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)

VOC: Volatile Organic Compounds (USA, EU)

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