

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 7 (replaces version 6)

Revision: 19.01.2023

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

### 1.1 Product identifier

· **Trade name:** **OxiTop PM**

· **Article number:** 209333

· **Description:** Calibration tablet

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

· **Product category:** PC21 Laboratory chemicals

· **Process category:** PROC15 Use as laboratory reagent

· **Application of the substance / the preparation:** Testing aid for OxiTop measuring systems

### 1.3 Details of the supplier of the safety data sheet

· **Manufacturer/Supplier:**

Xylem Analytics Germany GmbH  
WTW  
Am Achalaich 11  
82362 Weilheim  
Germany  
Tel. +49 881 183-0

· **Further information obtainable from:** E-mail: [Info.WTW@xylem.com](mailto:Info.WTW@xylem.com)

· **1.4 Emergency telephone number:** Chemtrec: (USA & Canada) 800-424-9300 (International) 001 703-527-3887

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

· **Classification according to Regulation (EC) No 1272/2008:**



GHS08 health hazard

Repr. 1B H360FD May damage fertility. May damage the unborn child.

### 2.2 Label elements:

· **Labelling according to Regulation (EC) No 1272/2008:** The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms:**



GHS08

· **Signal word:** Danger

· **Hazard-determining components of labelling:**

boric acid

· **Hazard statements:**

H360FD May damage fertility. May damage the unborn child.

· **Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 7 (replaces version 6)

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Trade name: OxiTop PM


(Contd. of page 1)

- **Additional information:**  
Restricted to professional users.
- **2.3 Other hazards** No further relevant information available.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

- **Description:**  
Mixture of substances listed below with nonhazardous additions.  
Sodium sulfite, boric acid, cellulose

· <b>Dangerous components:</b>			
CAS: 10043-35-3	boric acid	 Repr. 1B, H360FD	20-50%
EINECS: 233-139-2			
Index number: 005-007-00-2			

### · **SVHC**

10043-35-3 boric acid

- **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

- **After inhalation:** Supply fresh air.
- **After skin contact:**  
Take off immediately all contaminated clothing and wash it before reuse.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash with plenty of water.  
Take off contaminated clothing.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.
- **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** No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- **Suitable extinguishing agents:** The product is not flammable. Extinguishing agent to suit environment.

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

In case of fire, the following can be released:

Sulphur oxides (SO<sub>x</sub>)

Boron oxide

### 5.3 Advice for firefighters

- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

## SECTION 6: Accidental release measures

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

Wear personal protective equipment (see section 8).

- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

### 6.3 Methods and material for containment and cleaning up:

Pick up mechanically (e. g. using a squeezer)

Dispose contaminated material as waste according to section 13.

(Contd. on page 3)

# Safety data sheet

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Version number 7 (replaces version 6)

Revision: 19.01.2023

Trade name: OxiTop PM

(Contd. of page 2)

## 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** Wear personal protective equipment (see section 8)
  - Information about fire - and explosion protection: Keep respiratory protective device available.
- 7.2 **Conditions for safe storage, including any incompatibilities**
  - Requirements to be met by storerooms and receptacles: No special requirements.
  - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions:
    - Store in cool and dry conditions.
    - Protect from exposure to the light.
- 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 item 7.
  - Individual protection measures, such as personal protective equipment
    - General protective and hygienic measures:
      - Avoid contact with the eyes and skin.
      - Take off contaminated clothing and wash it before reuse.
      - Store protective clothing separately.
      - Wash hands before breaks and at the end of work.
    - Respiratory protection: Required when dusts are formed.
      - Recommended filter device for short term use: Filter P3
    - Hand protection Protective gloves
      - Material of gloves Nitrile rubber, NBR
    - Eye/face protection Safety glasses

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

Physical state	Solid
Colour:	White
Odour:	Odourless
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	300 °C
Flammability	Product is not flammable.
Flash point:	Not applicable.
Decomposition temperature:	Not determined.
pH at 20 °C	8.1

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 7 (replaces version 6)

Revision: 19.01.2023

Trade name: OxiTop PM

(Contd. of page 3)

· <b>Viscosity:</b>	
· Kinematic viscosity	Not applicable.
· Dynamic:	Not applicable.
· <b>Solubility</b>	
· water:	Soluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not applicable.
· <b>Density and/or relative density</b>	
· Density at 20 °C:	2.29 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not applicable.
· <b>Particle characteristics</b>	See item 3.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· Form:	Tablets
· <b>Important information on protection of health and environment, and on safety.</b>	
· Auto-ignition temperature:	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Change in condition</b>	
· Evaporation rate	Not applicable.
· <b>Information with regard to physical hazard classes</b>	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· 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
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	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**
  - **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
  - Oxidizing agents
  - Acids
  - Nitrites

(Contd. on page 5)

EU

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 7 (replaces version 6)

Revision: 19.01.2023

Trade name: OxiTop PM

(Contd. of page 4)

· **10.6 Hazardous decomposition products:** In case of fire, see section 5.

## SECTION 11: Toxicological information

· **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

· **Acute toxicity**

No quantitative toxicity data are available for this product.

Based on available data, the classification criteria are not met.

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

10043-35-3 boric acid		
Oral	LD50	2660 mg/kg (Rat) (RTECS)
Dermal	LD50	> 2000 mg/kg (Rat) (IUCLID)
7631-86-9 silicon dioxide, chemically prepared		
Oral	LD50	10000 mg/kg (Rat)

· **Skin corrosion/irritation**

Local irritation possible.

Based on available data, the classification criteria are not met.

· **Serious eye damage/irritation**

Irritation possible.

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** May damage fertility. May damage the unborn child.

· **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.

· **Additional toxicological information:**

May impair fertility.

May cause harm to the unborn child.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

10043-35-3 boric acid		
EC50	133 mg/l, 48 h	(Daphnia magna) (ECOTOX Database)
LC50	50 – 100 mg/l, 96 h	(Oncorhynchus mykiss) (ECOTOX Database)

· **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** Not applicable.

· **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **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.

· **Additional ecological information:**

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version number 7 (replaces version 6)

Revision: 19.01.2023

Trade name: OxiTop PM

(Contd. of page 5)

Do not allow product to reach ground water, water course or sewage system.

- **Additional ecological information:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Disposal must comply with the relevant local regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose the special waste.

- **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.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID</b></li> <li>· <b>ADN, IMDG, IATA</b></li> </ul>	Void Void Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul> </li> </ul>	Not dangerous according to the above specifications.
<ul style="list-style-type: none"> <li> <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul> </li> </ul>	Void

### SECTION 15: Regulatory information

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

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30

- **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.

(Contd. on page 7)

# Safety data sheet

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(Contd. of page 6)

· **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:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

10043-35-3 | boric acid

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

## SECTION 16: Other information

· **Relevant phrases**

H360FD May damage fertility. May damage the unborn child.

· **Date of previous version:** 19.01.2023

· **Version number of previous version:** 6

· **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)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproductive toxicity – Category 1B