

## DPD No.1 (MR) Photometer

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

#### 1.1 - Product identifier

Trade name/designation DPD No.1 (MR) Photometer

Chemical name

Product-type Mixture

Product code TbsPD1MR

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

Relevant identified uses - Reagent for water analysis

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

Water-I.D. GmbH

Daimlerstr. 20

76344 Eggenstein Germany

Telephone : +49 (0) 721 - 78 20 29 - 0 Fax +49 (0) 721 - 78 20 29 - 11

Website [www.water-id.com](http://www.water-id.com)

EHS / Compliance: [lab@water-id.com](mailto:lab@water-id.com)

#### 1.4 - Emergency telephone number

- Poison Control Center Munich

Tel: +49 (0) 89 / 19 24 0

Germany

24 hour service

Languages: German, English

please also call from: United Kingdom

### SECTION 2: Hazards identification

#### 2.1 - Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Repr. 1B	Reproductive toxicity - Category 1B

#### 2.2 - Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Contains: boric acid (CAS No.: 10043-35-3)

Signal word : Danger

Hazard pictograms



Hazard statements

H312	Harmful in contact with skin
H332	Harmful if inhaled
H360	May damage fertility or the unborn child

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### Precautionary statements

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves, protective clothing, eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water, water and soap.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P312	Call a a POISON CENTER, a doctor if you feel unwell.
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P501	Dispose of container to an appropriate recycling or disposal facility.
EUH-phrases	: None

### 2.3 - Other hazards

PBT-substance. - No information available.

## SECTION 3: Composition / information on ingredients

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
boric acid	CAS No. : 10043-35-3 Index No. : 005-007-00-2 EC No. : 233-139-2	60 - 80	Repr. 1B - H360	Repr. 1B - H360 : 5,5>=%<=100
N,N-diethylbenzene-1,4-diammonium sulphate	CAS No. : 6283-63-2 Index No. : EC No. : 228-500-6	1 - 5	Acute Tox. 4 Oral - H302	Not applicable

## SECTION 4: First aid measures

### 4.1 - Description of first aid measures

#### Following inhalation

- Provide fresh air.
- After inhaling vapours, first symptoms of poisoning may develop hours later, so always consult a doctor.
- When in doubt or if symptoms are observed, get medical advice.
- Medical examination necessary even merely on suspicion of intoxication.
- Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### Following skin contact

- After contact with skin, wash immediately with plenty of water and soap.
- Remove contaminated, saturated clothing immediately.

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- In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).  
- Medical examination necessary even merely on suspicion of intoxication.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion - Rinse mouth thoroughly with water.  
- Do NOT induce vomiting.

### 4.2 - Most important symptoms and effects, both acute and delayed

Symptoms and effects - Following inhalation - No information available.

Symptoms and effects - Following skin contact - No information available.

Symptoms and effects - After eye contact - No information available.

Symptoms and effects - After ingestion - No information available.

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

- Treat symptomatically. Antidotal dispensation.

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## SECTION 5: Firefighting measures

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### 5.1 - Extinguishing media

Suitable extinguishing media - ABC-powder  
- Carbon dioxide (CO<sub>2</sub>)  
- Foam  
- Extinguishing powder

Unsuitable extinguishing media - Full water jet

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

Special hazards arising from the substance or mixture - Hazardous combustion products

Hazardous decomposition products - Carbon dioxide (CO<sub>2</sub>)  
- Carbon monoxide  
- Sulphur oxides  
- Nitrogen oxides (NO<sub>x</sub>)

### 5.3 - Advice for firefighters

- Remove product from area of fire.  
- Wear a self-contained breathing apparatus and chemical protective clothing.

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## SECTION 6: Accidental release measures

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

For non-emergency personnel - Use personal protection equipment.  
- Remove persons to safety.

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	<ul style="list-style-type: none"><li>- Wear breathing apparatus if exposed to vapours/dusts/aerosols.</li></ul>
<u>For emergency responders</u>	<ul style="list-style-type: none"><li>- Wear personal protection equipment (refer to section 8).</li><li>- Wear breathing apparatus if exposed to vapours/dusts/aerosols.</li></ul>
<b>6.2 - Environmental precautions</b>	
<ul style="list-style-type: none"><li>- Do not allow to enter into surface water or drains.</li></ul>	
<b>6.3 - Methods and material for containment and cleaning up</b>	
<u>Methods and material for containment</u>	<ul style="list-style-type: none"><li>- No information available.</li><li>- Soak up inert absorbent and dispose as waste requiring special attention.</li></ul>
<u>Methods and material for cleaning up</u>	<ul style="list-style-type: none"><li>- Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).</li><li>- Clear contaminated areas thoroughly.</li><li>- Take up carefully when dry.</li><li>- Take up dust-free and set down dust-free.</li><li>- Ventilate affected area.</li><li>- Take up mechanically, placing in appropriate containers for disposal.</li></ul>
<u>Inappropriate techniques</u>	<ul style="list-style-type: none"><li>- No information available.</li></ul>
<b>6.4 - Reference to other sections</b>	
<ul style="list-style-type: none"><li>- Disposal: see section 13</li><li>- Safe handling: see section 7</li><li>- Personal protection equipment: see section 8</li></ul>	

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## SECTION 7: Handling and storage

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<b>7.1 - Precautions for safe handling</b>	
<u>Recommendation</u>	<ul style="list-style-type: none"><li>- After use replace the closing cap immediately.</li><li>- All work processes must always be designed so that the following is excluded: Skin contact</li><li>- All work processes must always be designed so that the following is excluded: Generation/formation of dust</li><li>- Avoid exposure - obtain special instructions before use.</li><li>- Vapours/aerosols must be exhausted directly at the point of origin.</li><li>- All work processes must always be designed so that the following is excluded: Inhalation</li><li>- See section 8.</li></ul>
<u>Advices on general occupational hygiene</u>	<ul style="list-style-type: none"><li>- Immediately remove any contaminated clothing, shoes or stockings.</li><li>- Avoid contact with skin, eyes and clothes.</li><li>- Wash contaminated clothing prior to re-use.</li><li>- Thorough skin-cleansing after handling the product.</li><li>- Wash hands before breaks and after work.</li></ul>

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- When using do not eat, drink, smoke, sniff.
- Work in well-ventilated zones or use proper respiratory protection.

### 7.2 - Conditions for safe storage, including any incompatibilities

- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects (solid)
- Storage class Non-combustible substances of acute toxicity, category 3 / hazardous substances that are toxic or produce chronic effects

### 7.3 - Specific end use(s)

## SECTION 8: Exposure controls/personal protection

### 8.1 - Control parameters

### 8.2 - Exposure controls

#### Appropriate engineering controls

- No information available.

#### Individual protection measures, such as personal protective equipment

- Suitable protective clothing:lab coat



- Suitable eye protection:Eye glasses with side protection



- Suitable respiratory protection apparatus:Particle filter device (DIN EN 143)



- The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

- When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.



- Suitable material: NBR (Nitrile rubber)

#### Environmental exposure controls

- Further information: see technical data sheet.
- Further information: see exposure scenarios attached to this safety data sheet.

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### SECTION 9: Physical and chemical properties

#### 9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Tablets
<u>Colour</u>	White	<u>Odour</u>	odourless
Odour threshold	No data available		
pH	6,4 10,5 g/l		
Melting point	No data available		
Freezing point	No data available		
Boiling point	No data available		
Flash point	No data available		
Evaporation rate	No data available		
flammability	No data available		
Lower explosion limit	No data available		
Upper explosion limit	No data available		
Vapour pressure	No data available		
Vapour density	No data available		
Relative density	No data available		
Density	No data available		
Solubility (Water)	100 %		
Solubility (Ethanol)	No data available		
Solubility (Acetone)	No data available		
Solubility (Organic solvents)	No data available		
Log KOC	No data available		
Auto-ignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Dynamic viscosity	No data available		

#### 9.2 - Other information

VOC content	No data available
Minimum ignition energy	No data available
Conductivity	No data available

### SECTION 10: Stability and reactivity

#### 10.1 - Reactivity

- This material is considered to be non-reactive under normal use conditions.

#### 10.2 - Chemical stability

- The product is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3 - Possibility of hazardous reactions

- No hazardous reaction when handled and stored according to provisions.

#### 10.4 - Conditions to avoid

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- No information available.

### 10.5 - Incompatible materials

- No information available.

### 10.6 - Hazardous decomposition products

- Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

### 11.1 - Information on toxicological effects

Acute toxicity - Acute toxicity (dermal) - Category 4 - Harmful in contact with skin  
- Acute toxicity (inhalative) - Category 4 - Harmful if inhaled

#### Toxicity : Mixture

LD50 oral (rat)	No data available
LD50 dermal (rat)	No data available
LD50 dermal (rabbit)	No data available
LC50 inhalation (rat)	No data available
LC50 inhalation dusts and mists (rat)	No data available
LC50 inhalation vapours (rat)	No data available

- No information available.  
- Harmful by inhalation.  
- Toxic by inhalation.

#### Toxicity : Substances

<b>boric acid (10043-35-3)</b>	
LD50 oral (rat)	2600 mg/kg < V < 4080 mg/kg
LD50 dermal (rabbit)	2000 mg/kg
LC50 inhalation dusts and mists (rat)	2,12 mg/l 4h
<b>N,N-diethylbenzene-1,4-diammonium sulphate (6283-63-2)</b>	
LD50 oral (rat)	497 mg/kg

Skin corrosion/irritation - Not classified

Serious eye damage/eye irritation - Not classified

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Reproductive toxicity - Category 1B - May damage fertility or the unborn child

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

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Aspiration hazard - Not classified

### SECTION 12: Ecological information

#### 12.1 - Toxicity

##### Toxicity : Mixture

EC50 48 hr crustacea	No data available
LC50 96 hr fish	No data available
ErC50 algae	No data available
ErC50 other aquatic plants	No data available
NOEC chronic fish	No data available
NOEC chronic crustacea	No data available
NOEC chronic algae	No data available
NOEC chronic other aquatic plants	No data available

##### Toxicity : Substances

boric acid (10043-35-3)	
EC50 48 hr crustacea	91 mg/l < V < 165 mg/l
LC50 96 hr fish	74 mg/l < V < 79,7 mg/l
NOEC chronic fish	11,2 mg/l < V < 44,5 mg/l
NOEC chronic crustacea	16,6 mg/l < V < 43,3 mg/l
NOEC chronic other aquatic plants	3,6 mg/l < V < 19,5 mg/l

- The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

#### 12.2 - Persistence and degradability

Biochemical oxygen demand (BOD)	No data available
Chemical oxygen demand (COD)	No data available
% of biodegradation in 28 days	No data available

- No information available.

#### 12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
Log KOC	No data available

- No indication of bioaccumulation potential.

#### 12.4 - Mobility in soil

- No information available.

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

- No information available.

#### 12.6 - Other adverse effects

- No information available.

### SECTION 13: Disposal considerations



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### 13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste. - Handle contaminated packages in the same way as the substance itself.
<u>Sewage disposal</u>	- Do not empty into drains.
<u>Special precautions for waste treatment</u>	- Waste requires special monitoring. - Collect the waste separately. - Send to a hazardous waste incinerator facility under observation of official regulations. - Waste requires monitoring. - The waste is to be kept separate from other types of waste until its disposal.
<u>Community or national or regional provisions</u>	- Dispose according to legislation.

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## SECTION 14: Transport information

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### 14.1 - UN number

Not applicable

### 14.2 - UN proper shipping name

### 14.3 - Transport hazard class(es)

ADR subsidiary risks - No dangerous good in sense of these transport regulations.

### 14.4 - Packing group

### 14.5 - Environmental hazards

Additional information - No dangerous good in sense of these transport regulations.

### 14.6 - Special precautions for user

### 14.7 - Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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## SECTION 15: Regulatory information

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

Substances REACH candidates boric acid (Index No.: 005-007-00-2 - EC No.: 233-139-2 - CAS No.: 10043-35-3)

Substances Annex XIV None

Substances Annex XVII None

VOC content No data available

### 15.2 - Chemical Safety Assessment

Chemical safety assessment carried out for the product - No information available.

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## SECTION 16: Other information

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### SDS versions

Version	Issue date	Description of the amendments
1	18.12.2018	MSDS creation.

Abbreviations and acronyms - See overview table at [www.euphrac.eu](http://www.euphrac.eu)

### Texts of the regulatory sentences

Acute Tox. 4 Dermal	Acute toxicity (dermal) - Category 4
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
H302	Harmful if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H360	May damage fertility or the unborn child
H360FD(U)	May damage fertility. May damage the unborn child
Repr. 1B	Reproductive toxicity - Category 1B

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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