

## DPD No.1 (High Calcium) Photometer

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

#### 1.1 - Product identifier

Trade name/designation DPD No.1 (High Calcium) Photometer

Chemical name

Product-type Mixture

Product code TbsPD1HC

#### 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]

Eye Irrit. 2	Eye irritation - Category 2
--------------	-----------------------------

#### 2.2 - Label elements

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

Signal word : Warning

Hazard pictograms



Hazard statements

H319	Causes serious eye irritation
------	-------------------------------

Precautionary statements

P264	Wash hands thoroughly after handling.
P280	Wear protective gloves, protective clothing, eye protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

## DPD No.1 (High Calcium) Photometer

P337+P313	If eye irritation persists: Get medical advice/attention.
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
Ethylenediaminetetraacetic acid disodium salt dihydrate	CAS No. : 6381-92-6 Index No. : EC No. : 205-358-3	1 - 10	Acute Tox. 4 Inhalation - H332 STOT RE 2 - H373	Not applicable
sodium carbonate	CAS No. : 497-19-8 Index No. : 011-005-00-2 EC No. : 207-838-8 REACH No. : 01-2119485498-19-XXXX	1 - 10	Eye Irrit. 2 - H319	Not applicable
citric acid	CAS No. : 77-92-9 Index No. : EC No. : 201-069-1 REACH No. : 01-2119457026-42-XXXX	1 - 10	Eye Irrit. 2 - H319	Not applicable
adipic acid	CAS No. : 124-04-9 Index No. : 607-144-00-9 EC No. : 204-673-3 REACH No. : 01-2119457561-38-XXXX	1 - 5	Eye Irrit. 2 - H319	Not applicable
N,N-diethylbenzene-1,4-diamonium 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.  
- When in doubt or if symptoms are observed, get medical advice.

Following skin contact - Wash immediately with: Water  
- When in doubt or if symptoms are observed, get medical advice.

After eye contact - Rinse immediately carefully and thoroughly with eye-bath or water.  
- In case of eye irritation consult an ophthalmologist.

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.

---

## DPD No.1 (High Calcium) Photometer

---

Symptoms and effects - After eye contact - Causes eye irritation.

Symptoms and effects - After ingestion - No information available.

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

---

### SECTION 5: Firefighting measures

---

#### 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 - No information available.

Hazardous decomposition products

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

#### 5.3 - Advice for firefighters

- Co-ordinate fire-fighting measures to the fire surroundings.

---

### SECTION 6: Accidental release measures

---

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

For non-emergency personnel - Use personal protection equipment.

For emergency responders - No information available.

#### 6.2 - Environmental precautions

- No information available.

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

Methods and material for containment - No information available.

Methods and material for cleaning up

- Take up mechanically.
- Wash with plenty of water.

Inappropriate techniques - No information available.

#### 6.4 - Reference to other sections

- Disposal: see section 13

- Personal protection equipment: see section 8

---

### SECTION 7: Handling and storage

---

## DPD No.1 (High Calcium) Photometer

### 7.1 - Precautions for safe handling

Recommendation

- Avoid: Eye contact
- Avoid: Generation/formation of dust
- It is recommended to design all work processes always so that the following is excluded: Eye contact

Advices on general occupational hygiene

- No information available.

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

- No information available.

### 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



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



- Suitable material: NBR (Nitrile rubber)

## 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	6,3 18 g/l		
Melting point	No data available		
Freezing point	No data available		

## DPD No.1 (High Calcium) Photometer

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

- 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

## DPD No.1 (High Calcium) Photometer

Acute toxicity - Not classified

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

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

Toxicity : Substances

<b>adipic acid (124-04-9)</b>	
LD50 oral (rat)	5560 mg/kg
<b>Ethylenediaminetetraacetic acid disodium salt dihydrate (6381-92-6)</b>	
LD50 oral (rat)	2800 mg/kg ECHA
<b>citric acid (77-92-9)</b>	
LD50 oral (rat)	> 3000 mg/kg (TOXNET)
<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 - Eye irritation - Category 2 - Causes serious eye irritation

- Irritating to eyes.

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

STOT-single exposure - Not classified

STOT-repeated exposure - Not classified

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

## DPD No.1 (High Calcium) Photometer

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

<b>adipic acid (124-04-9)</b>	
EC50 48 hr crustacea	46 mg/l
ErC50 other aquatic plants	59 mg/l
NOEC chronic crustacea	6,3 mg/l
<b>Ethylenediaminetetraacetic acid disodium salt dihydrate (6381-92-6)</b>	
EC50 48 hr crustacea	140 mg/l ECHA
NOEC chronic crustacea	25 mg/l ECHA (21d)
<b>citric acid (77-92-9)</b>	
LC50 96 hr fish	440 mg/l
<b>sodium carbonate (497-19-8)</b>	
EC50 48 hr crustacea	227 mg/l ECHA
LC50 96 hr fish	300 mg/l ECHA

- 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

## DPD No.1 (High Calcium) Photometer

### 13.1 - Waste treatment methods

<u>Waste treatment methods</u>	- Dispose of waste according to applicable legislation.
<u>Sewage disposal</u>	- No information available.
<u>Special precautions for waste treatment</u>	- No information available.
<u>Community or national or regional provisions</u>	- Dispose according to legislation.

## SECTION 14: Transport information

### 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

## SECTION 15: Regulatory information

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

Substances REACH candidates None

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.

## SECTION 16: Other information

### 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 Inhalation	Acute toxicity (inhalative) - Category 4
----------------------------	--



---

## DPD No.1 (High Calcium) Photometer

---

Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Eye Irrit. 2	Eye irritation - Category 2
H302	Harmful if swallowed
H319	Causes serious eye irritation
H332	Harmful if inhaled
H373	May cause damage to organs or state all organs affected, if known through prolonged or repeated exposure - state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard
STOT RE 2	STOT-repeated exposure - Category 2

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.

\*\*\* \*\*