

## Phosphate-HR Comparator

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

#### 1.1 - Product identifier

Trade name/designation Phosphate-HR Comparator  
Chemical name  
Product-type Mixture  
Product code PPCPP  
CAS No.

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

Relevant identified uses - Reagent for water analysis  
Uses advised against - Other

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

Water-I.D. GmbH  
Daimlerstr. 20  
76344 Eggenstein Germany  
+49 (0) 721 - 78 20 29 - 0 Fax+49 (0) 721 - 78 20 29 - 11  
EHS / Compliance: lab@water-id.com

#### 1.4 - Emergency telephone number

- 毒物管理センター ミュンヘン  
Tel: +49 (0) 89 / 19 24 0  
ドイツ  
24時間サービス  
言語 ドイツ語, 英語  
からもお電話ください。Japan

### SECTION 2: Hazards identification

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

Eye Dam. 1	Serious eye damage, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Acute Tox. 5 Oral	Acute toxicity (oral) - Category 5
Skin Corr. 1	Skin corrosion, Category 1
Aquatic Acute 3	Hazardous to the aquatic environment - Aquatic Acute 3

#### 2.2 - Label elements

Contains: sodium cyclamate (CAS No.: 139-05-9)

Signal word Danger

Hazard pictograms



Hazard statements

H303	May be harmful if swallowed.
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage

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H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects

### Precautionary statements

P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves, protective clothing, eye protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER, a doctor.
P501	Dispose of contents, container to an appropriate recycling or disposal facility.

### 2.3 - Other hazards

PBT-substance. - No information available.

vPvB-substance. - No information available.

Other hazards which do not result in classification - No information available.

## SECTION 3: Composition / information on ingredients

- Not applicable

### 3.1 - Substances

Not applicable

### 3.2 - Mixtures

Chemical name	No	%	Class	Spec. concentrations
sodium hydrogensulphate	CAS No. : 7681-38-1 Index No. : 016-046-00-X EC No. : 231-665-7	30 - 50		Not applicable
sodium sulphate	CAS No. : 7757-82-6 Index No. : EC No. : 231-820-9	20 - 30		Not applicable
adipic acid	CAS No. : 124-04-9 Index No. : 607-144-00-9 EC No. : 204-673-3	10 - 20		Not applicable
sodium cyclamate	CAS No. : 139-05-9 Index No. : EC No. : 205-348-9	1 - 10		Not applicable
Sodium molybdate dihydrate	CAS No. : 10102-40-6 Index No. : EC No. : 231-551-7	1 - 10		Not applicable
ammonium trioxovanadate	CAS No. : 7803-55-6 Index No. : EC No. : 232-261-3	< 1		Not applicable
magnesium distearate	CAS No. : 557-04-0 Index No. : EC No. : 209-150-3	< 1		Not applicable

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Chemical name	No	%	Class	Spec. concentrations
silicon dioxide	CAS No. : 7631-86-9 Index No. : EC No. : 231-545-4	< 1		Not applicable

### SECTION 4: First aid measures

#### 4.1 - Description of first aid measures

##### Following inhalation

- No special measures are necessary.
- Provide fresh air.

##### Following skin contact

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

##### After eye contact

- In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and 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.

##### Symptoms and effects - After eye contact

- Serious eye damage/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.

#### 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.

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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.

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## SECTION 7: Handling and storage

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### 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.

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## SECTION 8: Exposure controls/personal protection

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### 8.1 - Control parameters

### 8.2 - Exposure controls

Appropriate engineering controls - No information available.

### 8.3. - Individual protection measures, such as personal protective equipment

- Suitable eye protection: Dust protection eye glasses



- Suitable protective clothing: lab coat



- Tested protective gloves must be worn



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## SECTION 9: Physical and chemical properties

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

Physical state	Solid	Appearance	Powder
Colour	yellow-orange	Odour	odourless
Odour threshold	No data available		
pH	1 35 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)	partially soluble		
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.

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### 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 (oral) - Category 5 - May be harmful if swallowed.

#### 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>sodium hydrogensulphate (7681-38-1)</b>	
LD50 oral (rat)	2490 mg/kg
<b>Sodium molybdate dihydrate (10102-40-6)</b>	
LD50 oral (rat)	4233 mg/kg
LD50 dermal (rat)	> 2000 mg/kg
<b>sodium cyclamate (139-05-9)</b>	
LD50 oral (rat)	1280 mg/kg
<b>ammonium trioxovanadate (7803-55-6)</b>	
LD50 oral (rat)	218,1 mg/kg ECHA
LD50 dermal (rat)	> 2500 mg/kg
LC50 inhalation dusts and mists (rat)	2,61 mg/l 4h - (ECHA)

Skin corrosion/irritation - Skin corrosion, Category 1 - Causes severe skin burns and eye damage

Serious eye damage/eye irritation - Serious eye damage, Category 1 - Causes serious eye damage

- Risk of serious damage to eyes.  
- Causes serious eye irritation.

Respiratory or skin sensitisation - Not classified

Germ cell mutagenicity - Not classified

Carcinogenicity - Not classified

Reproductive toxicity - Not classified

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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
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>sodium hydrogensulphate (7681-38-1)</b>	
EC50 48 hr crustacea	1766 mg/l
LC50 96 hr fish	7960 mg/l
NOEC chronic crustacea	1109 mg/l
<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>sodium sulphate (7757-82-6)</b>	
EC50 48 hr crustacea	1766 mg/l ECHA
LC50 96 hr fish	7960 mg/l ECHA
ErC50 algae	1900 mg/l 5d
<b>Sodium molybdate dihydrate (10102-40-6)</b>	
EC50 48 hr crustacea	330 mg/l
LC50 96 hr fish	7600 mg/l
<b>ammonium trioxovanadate (7803-55-6)</b>	
NOEC chronic fish	0,48 mg/l 28d - (ECHA)

- Harmful to aquatic life with long lasting effects.

#### 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

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- 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.

### 12.6 - Other adverse effects

- No information available.

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## SECTION 13: Disposal considerations

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### 13.1 - Waste treatment methods

Waste treatment methods - Dispose of waste according to applicable legislation.

Sewage disposal - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

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## SECTION 14: Transport information

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### 14.1 - UN number

UN number (ADR) : Not applicable

UN number (RID) : Not applicable

UN number (IMDG) : Not applicable

UN number (IATA) : Not applicable

### 14.2 - UN proper shipping name

### 14.3 - Transport hazard class(es)

ADR Classification code: :

### 14.4 - Packing group

### 14.5 - Environmental hazards

Environmental hazards :

Marine pollutant :

### 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



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VOC content No data available

- Substance/product listed in the following inventories:

Community safety, health and environmental provisions, national laws Existing Chemical Substances (CSCL) (CAS No. : 7681-38-1, CAS No. : 7757-82-6, CAS No. : 124-04-9, CAS No. : 139-05-9, CAS No. : 7631-86-9).  
Chemical Substances exempted from notification of manufacturing/import amount (CSCL) (CAS No. : 7681-38-1, CAS No. : 7757-82-6).  
Existing Chemical Substances (ISHA) (CAS No. : 7681-38-1, CAS No. : 7803-55-6, CAS No. : 557-04-0).  
Biodegradation and Bioconcentration Results (METI) (CAS No. : 124-04-9).  
Results of Eco-toxicity tests of chemicals (MOE) (CAS No. : 124-04-9).  
Chemical Substances Requiring Labeling and Delivery of Documents (ISHA) (CAS No. : 124-04-9, CAS No. : 557-04-0, CAS No. : 7631-86-9).  
Chemical Substances not regarded as a New Chemical Substances (CSCL) (CAS No. : 10102-40-6).  
Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof (CAS No. : 10102-40-6).  
Japan Air Pollution Control Law (CAS No. : 10102-40-6).  
Strong Mutagenic Chemical Substances (ISHA) (CAS No. : 7803-55-6).  
Japan Poisonous and Deleterious Substances Control Act (CAS No. : 7803-55-6).  
Japan Water Pollution Control Law (CAS No. : 7803-55-6).  
Chemical Substances exempted from notification of manufacturing/import amount (CAS No. : 7631-86-9).

### 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	21.04.2020	Creation

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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