

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 TbsCPP

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

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76344 Eggenstein Germany

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

Website www.water-id.com

EHS / Compliance: 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 Dam. 1	Serious eye damage, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3

2.2 - Label elements

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

Contains: sodium hydrogensulphate (CAS No.: 7681-38-1)

Signal word : Danger

Hazard pictograms



Hazard statements

H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

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Precautionary statements

P273	Avoid release to the environment.
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.
P310	Immediately call a POISON CENTER, a doctor.
P501	Dispose of contents, container to an appropriate recycling or disposal facility.
EUH-phrases	: None

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

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 REACH No. : 01-2119552465-36-XXXX	40 - 50	Eye Dam. 1 - H318	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	5 - 15	Eye Irrit. 2 - H319	Not applicable
sodium cyclamate	CAS No. : 139-05-9 Index No. : EC No. : 205-348-9	1 - 10	Acute Tox. 4 Oral - H302	Not applicable
ammonium trioxovanadate	CAS No. : 7803-55-6 Index No. : EC No. : 232-261-3 REACH No. : 01-2119983501-37-XXXX	0 - 1	Acute Tox. 3 Oral - H301 Acute Tox. 4 Inhalation - H332 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 Eye Irrit. 2 - H319 Repr. 2 (H361fd) - H361fd STOT RE 1 - H372	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.

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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 (CO₂)
- 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 (CO₂)
- Carbon monoxide
- metallic oxides containing heavy metals
- Sulphur oxides
- Nitrogen oxides (NO_x)
- Hydrogen cyanide (hydrocyanic acid)

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

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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

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)

- Reagent for water analysis

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.



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- 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>	yellow-orange	<u>Odour</u>	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.

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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

- Alkali (lye), concentrated

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 - 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

sodium hydrogensulphate (7681-38-1)	
LD50 oral (rat)	2490 mg/kg
adipic acid (124-04-9)	
LD50 oral (rat)	5560 mg/kg
sodium cyclamate (139-05-9)	
LD50 oral (rat)	1280 mg/kg
ammonium trioxovanadate (7803-55-6)	
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 - Not classified

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

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

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<u>Respiratory or skin sensitisation</u>	- Not classified
<u>Germ cell mutagenicity</u>	- Not classified
<u>Carcinogenicity</u>	- Not classified
<u>Reproductive toxicity</u>	- Not classified
<u>STOT-single exposure</u>	- Not classified
<u>STOT-repeated exposure</u>	- Not classified
<u>Aspiration hazard</u>	- 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

sodium hydrogensulphate (7681-38-1)	
EC50 48 hr crustacea	1766 mg/l
LC50 96 hr fish	7960 mg/l
NOEC chronic crustacea	1109 mg/l
adipic acid (124-04-9)	
EC50 48 hr crustacea	46 mg/l
ErC50 other aquatic plants	59 mg/l
NOEC chronic crustacea	6,3 mg/l
ammonium trioxovanadate (7803-55-6)	
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

- No information available.

12.3 - Bioaccumulative potential

Bioconcentration factor (BCF)	No data available
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Log KOC	No data available
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- No indication of bioaccumulation potential.

12.4 - Mobility in soil

- No information available.

12.5 - Results of PBT and vPvB assessment

- No information available.

- No information available.

12.6 - Other adverse effects

- No information available.

SECTION 13: Disposal considerations

13.1 - Waste treatment methods

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

Sewage disposal - Do not empty into drains.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - 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)

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

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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	07.01.2019	MSDS creation

Abbreviations and acronyms - See overview table at www.euphrac.eu

Texts of the regulatory sentences

Acute Tox. 3 Oral	Acute toxicity (oral) - Category 3
Acute Tox. 4 Inhalation	Acute toxicity (inhalative) - Category 4
Acute Tox. 4 Oral	Acute toxicity (oral) - Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Aquatic Acute 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Aquatic Chronic 1
Aquatic Chronic 3	Hazardous to the aquatic environment - Aquatic Chronic 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation - Category 2
H301	Toxic if swallowed
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child
H372	Causes 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
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
Repr. 2 (H361fd)	Reproductive toxicity - Category 2 (H361fd)
STOT RE 1	STOT-repeated exposure - Category 1

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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