

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

- 慕尼黑毒物控制中心
电话: +49(0)89/19 24 0
德国
24小时服务
语言: 德语, 英语
也请致电 China
- Poison Control Center Munich
Tel: +49 (0) 89 / 19 24 0
Germany
24 hour service
Languages: German, English
please also call from: China

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

Phosphate-HR Comparator

Hazard pictograms



Hazard statements

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

Phosphate-HR Comparator

Chemical name	No	%	Class	Spec. concentrations
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
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

<u>Following inhalation</u>	- No special measures are necessary. - Provide fresh air.
<u>Following skin contact</u>	- Wash immediately with: Water - When in doubt or if symptoms are observed, get medical advice.
<u>After eye contact</u>	- 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.
<u>After ingestion</u>	- Rinse mouth thoroughly with water. - Do NOT induce vomiting.

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

<u>Symptoms and effects - Following inhalation</u>	- No information available.
<u>Symptoms and effects - Following skin contact</u>	- No information available.
<u>Symptoms and effects - After eye contact</u>	- Serious eye damage/eye irritation
<u>Symptoms and effects - After ingestion</u>	- No information available.

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

SECTION 5: Firefighting measures

5.1 - Extinguishing media

<u>Suitable extinguishing media</u>	- ABC-powder - Carbon dioxide (CO2) - Foam - Extinguishing powder
<u>Unsuitable extinguishing media</u>	- Full water jet

5.2 - Special hazards arising from the substance or mixture

Phosphate-HR Comparator

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.

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.

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.

SECTION 8: Exposure controls/personal protection

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



Phosphate-HR Comparator

- Suitable protective clothing: lab coat



SECTION 9: Physical and chemical properties

9.1 - Information on basic physical and chemical properties

<u>Physical state</u>	Solid	<u>Appearance</u>	Powder
<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.

Phosphate-HR Comparator

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

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

sodium hydrogensulphate (7681-38-1)	
LD50 oral (rat)	2490 mg/kg
Sodium molybdate dihydrate (10102-40-6)	
LD50 oral (rat)	4233 mg/kg
LD50 dermal (rat)	> 2000 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 - 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.

Phosphate-HR Comparator

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

- Harmful to aquatic life with long lasting effects.

Phosphate-HR Comparator

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.

12.6 - 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 - No information available.

Special precautions for waste treatment - No information available.

Community or national or regional provisions - No information available.

SECTION 14: Transport information

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

Phosphate-HR Comparator

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

VOC content No data available

- Substance/product listed in the following inventories:

Community safety, health and environmental provisions, national laws Inventory of Existing Chemical Substances Produced or Imported in China (IECSC) (CAS No. : 7681-38-1, CAS No. : 7757-82-6, CAS No. : 124-04-9, CAS No. : 139-05-9, CAS No. : 10102-40-6, CAS No. : 7803-55-6, CAS No. : 557-04-0, CAS No. : 7631-86-9).
Catalog of Hazardous Chemicals(2015) (CAS No. : 7681-38-1).

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.

*** **