

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

- 포이즌 컨트롤 센터 뮌헨
전화 : +49 (0) 89/19 24 0
독일
24 시간 서비스
언어 : 독일어, 영어
다음에서 전화하십시오 : Korea, Republic of

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

| | |
|-------------------------------|--|
| <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

| | |
|--|-----------------------------|
| <u>Special hazards arising from the substance or mixture</u> | - 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

| | |
|------------------------------------|--------------------------------------|
| <u>For non-emergency personnel</u> | - 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.

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



- Suitable protective clothing: lab coat



- Tested protective gloves must be worn



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

| | |
|--|--------------------------|
| 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.

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

| | |
|--|---------------------------|
| 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.

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.

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

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

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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 Chemicals List (KECI) (CAS No. : 7681-38-1, CAS No. : 7757-82-6, CAS No. : 124-04-9, CAS No. : 7803-55-6, CAS No. : 557-04-0, 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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