

**Safety Data Sheet**  
acc. to OSHA HCS

Printing date 12/16/2020

V - 5.1

Reviewed on 12/16/2020

**1 Identification**

- **Product identifier**
- **Trade name:** ZESTRON® Bath Analyzer 20
- **UFI:** YX21-30DU-Y005-43G0
- **Application of the substance / the mixture** Laboratory chemicals
- **Uses advised against** No further relevant information available.
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Zestron Americas  
11285 Assett Loop  
Manassas, VA 20109-USA  
Tel. +1 (703) 393-9880  
www.zestron.com  
infousa@zestron.com
- **Information department:** Safety department
- **Emergency telephone number:** Info-Trac: (800) 535-5053

**2 Hazard(s) identification**

- **Classification of the substance or mixture**  
Eye Irrit. 2A H319 Causes serious eye irritation.
- **Label elements**
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.
- **Precautionary statements**  
P280 Wear 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.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**  
Health = 1  
Fire = 0  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  
Health = 1  
Fire = 0  
Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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**3 Composition/information on ingredients**

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances with nonhazardous additions.

· **Dangerous components:**

7320-34-5 | tetrapotassium pyrophosphate

&gt;50%

**4 First-aid measures**

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Immediately remove any clothing soiled by the product.  
After contact with skin, wash immediately with plenty of water  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Rinse out mouth and then drink plenty of water.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** Void
- **Indication of any immediate medical attention and special treatment needed** Void

**5 Fire-fighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None
- **Special hazards arising from the substance or mixture** None.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Remove persons from danger area.
- **Environmental precautions:**  
Do not allow to penetrate the ground/soil.  
Avoid to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Pick up mechanically.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· **PAC-1:**

7320-34-5 | tetrapotassium pyrophosphate

61 mg/m<sup>3</sup>

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· **PAC-2:**

7320-34-5 | tetrapotassium pyrophosphate

680 mg/m<sup>3</sup>· **PAC-3:**

7320-34-5 | tetrapotassium pyrophosphate

1,200 mg/m<sup>3</sup>**7 Handling and storage**· **Handling:**· **Precautions for safe handling** The usual precautionary measures for handling chemicals should be followed.· **Information about protection against explosions and fires:** Void· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:** Keep receptacle tightly sealed.· **Information about storage in one common storage facility:**

Store away from oxidizing agents.

Do not store together with acids.

· **Further information about storage conditions:** Protect from frost.· **Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection**· **Additional information about design of technical systems:** No further data; see item 7.· **Control parameters**· **Components with limit values that require monitoring at the workplace:**

No exposure limits noted for ingredients.

· **Additional information:** The lists that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Avoid contact with the eyes and skin.

· **Breathing equipment:** Not necessary if room is well-ventilated.· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

PVC gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed gogglesUS  
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**9 Physical and chemical properties**· **Information on basic physical and chemical properties**· **General Information**· **Appearance:****Form:** Fluid**Color:** Violet· **Odor:** uncharacteristic· **Odor threshold:** Not determined· **pH-value (10 g/l) at 20 °C (68 °F):** 9.2 +/- 0.5 (DIN 19268)· **Change in condition****Melting point/Melting range:** < 0 °C (< 32 °F)**Boiling point/Boiling range:** 98 °C (208.4 °F)· **Flash point:** None· **Flammability (solid, gaseous):** Not applicable.· **Ignition temperature:** None· **Decomposition temperature:** Not determined.· **Auto igniting:** Product is not selfigniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Explosion limits:****Lower:** None**Upper:** None· **Vapor pressure:** Not determined.· **Density at 20 °C (68 °F):** 1.68 +/- 0.02 g/cm<sup>3</sup> (14.02 +/- 0.17 lbs/gal) (DIN 51757)· **Relative density** Not determined.· **Vapor density** Not determined.· **Evaporation rate** Not determined.· **Solubility in / Miscibility with****Water:** Fully miscible.· **Partition coefficient (n-octanol/water):** Not determined.· **Viscosity:****Dynamic:** Void**Kinematic:** Void· **Other information** No further relevant information available.**10 Stability and reactivity**· **Reactivity** No further relevant information available.· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.· **Possibility of hazardous reactions** No dangerous reactions known.· **Conditions to avoid** No further relevant information available.· **Incompatible materials:**

Store away from oxidizing agents.

Do not store together with acids.

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· **Hazardous decomposition products:** No dangerous decomposition products known.**11 Toxicological information**· **Information on toxicological effects**· **Acute toxicity:**· **LD/LC50 values that are relevant for classification:****7320-34-5 tetrapotassium pyrophosphate**

Oral LD50 ~2,000 mg/kg (mouse)

· **Primary irritant effect:**· **on the skin:** No irritating effect.· **on the eye:** Irritating effect.· **Sensitization:** No sensitizing effects known.· **Additional toxicological information:**The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

**12 Ecological information**· **Toxicity**· **Aquatic toxicity:****7320-34-5 tetrapotassium pyrophosphate**

LC0/48h ~750 mg/l (leuciscus idus)

· **Persistence and degradability** No further relevant information available.· **Behavior in environmental systems:**· **Bioaccumulative potential** No further relevant information available.· **Mobility in soil** No further relevant information available.· **Additional ecological information:**· **General notes:**

Disposal must be made according to official regulations.

Water hazard class 1 (Self-assessment): slightly hazardous for water

· **Results of PBT and vPvB assessment**· **PBT:** Not applicable.· **vPvB:** Not applicable.· **Other adverse effects** No further relevant information available.**13 Disposal considerations**· **Waste treatment methods**· **Recommendation:** Disposal must be made according to official regulations.

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

**14 Transport information**

- |  |  |
|--|--|
| · <b>UN-Number</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>UN proper shipping name</b>   |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>DOT, ADR, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>  | None   |
| · <b>Marine pollutant:</b>   | No   |
| · <b>Special precautions for user</b>  | None   |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable                                       |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | Void   |

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**  
No further relevant information available.

· **Sara**· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· New Jersey Right-to-Know List:**

None of the ingredients is listed.

**· New Jersey Special Hazardous Substance List:**

None of the ingredients is listed.

**· Pennsylvania Right-to-Know List:**

None of the ingredients is listed.

**· Pennsylvania Special Hazardous Substance List:**

None of the ingredients is listed.

**· GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**· Hazard pictograms**

GHS07

**· Signal word** Warning**· Hazard statements**

H319 Causes serious eye irritation.

**· Precautionary statements**

P280 Wear 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.

**· Chemical safety assessment:** A Chemical Safety Assessment has been carried out.**16 Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Date of preparation / last revision** 12/16/2020 / 5.0**· Abbreviations and acronyms:**

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

**· \* Data compared to the previous version altered.**