

# MATERIAL SAFETY DATA SHEET

ACCORDING TO DIRECTIVE

91/155/EEG-2001/58/EC

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY/UNDERTAKING**

Identification of the substance or preparation:

**K1220QH: BUFFER POWDER pH=6.98 (6C234)**

Use of the substance / preparation: For pH calibration.

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

| Components                          | Content | Formula   | symbol letters | R phrases | EINECS nr. | CAS nr.    |
|-------------------------------------|---------|---|----------------|-----------|------------|------------|
| Sodium Hydrogen Phosphate Dihydrate | 65.44%  | Na <sub>2</sub> HPO <sub>4</sub> · 2H <sub>2</sub> O              | n.a.           | n.a.      | 231-448-7  | 10028-24-7 |
| Potassium Dihydrogen Phosphate      | 35.52%  | KH <sub>2</sub> PO <sub>4</sub>                                   | n.a.           | n.a.      | 231-913-4  | 7778-77-0  |
| Bromophenol blue, sodium salt       | 0.04%   | C <sub>19</sub> H <sub>9</sub> Br <sub>4</sub> NaO <sub>5</sub> S | n.a.           | n.a.      | 252-170-2  | 34725-61-6 |

**3. HAZARDS IDENTIFICATION**

Danger classification:      Not applicable.

Hazards to man and the environment:      Not applicable.

**4. FIRST AID MEASURES**

After inhalation:      Supply fresh air; consult doctor in case of symptoms.

After skin contact:      Instantly rinse with water.

After eye contact:      Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing:      Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

**\*\*Consult a doctor if victim is feeling unwell.****5. FIRE-FIGHTING MEASURES**Suitable extinguishing media:      Water, CO<sub>2</sub>, foam, powder.

Protective equipment:      No special measures required.

**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions:      Avoid causing dust.

Environmental precautions:      Do not allow product to reach sewage system or water bodies.

Methods for cleaning up:      Take up dry and dispose according to local regulations.

Additional information:      No dangerous materials are released.

**7. HANDLING AND STORAGE**

Handling:      Prevent formation of dust.

Storage:      Store at room temperature, dry conditions and keep well sealed. Store a prepared solution in a chemical resistant bottle.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Exposure limit values:      No further data.

Occupational exposure controls:      The usual precautionary measures should be adhered to in handling the chemicals.

Respiratory protection:      Not necessary if room is well-ventilated.

Hand, eye, skin protection:      Wear protective gloves, safety glasses and protective work clothing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                    |
|--|--------------------|
| Appearance:                                      | Crystalline powder |
| Color  | Blue               |
| Smell  | Odorless           |
| pH when diluted in 200.00 ml demineralized water | 6.98 at 25° C      |
| water solubility                                 | Soluble            |

## 10. STABILITY AND REACTIVITY

**Conditions and materials to avoid:** : No decomposition if used according to specifications.  
**Hazardous decomposition products:** No dangerous decomposition products known.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** Quantitative data on the toxicity of this product are not available.  
**Primary effect:** - on the skin: No irritant effect known.  
- on the eye: Possible irritation.  
**Additional toxicological information:** When used and handled according to specifications, the product does not have any harmful effects.

## 12. ECOLOGICAL INFORMATION

No ecological problems are to be expected when the product is handled and used with due care and attention.

## 13. DISPOSAL CONSIDERATIONS

May not be disposed together with household garbage, or to reach sewage system. Dispose according to local regulations.

## 14. TRANSPORT INFORMATION

Not subject to transport regulations.

## 15. REGULATORY INFORMATION

**Danger classification:** Not applicable.

**List of relevant Risk phrases:** Not applicable.

**List of relevant Safety phrases:** Not applicable.

### Designation according to EC guidelines:

The material is not subject to classification according to EC lists and other sources of literature known to us.  
Observe the normal safety regulations when handling chemicals.

**Water hazard class 1:** slightly hazardous for water. Do not allow to enter waters, waste water or soil.

## 16. OTHER INFORMATION

The above information is based on the present state of knowledge and is believed to be correct. Its purpose is to characterize the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. The material safety data sheets will be available in other languages on our website.

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