

Material Safety Data Sheet

according to 91/155/EEC

ProMinent®

Buffer-220mV-02

Revision: 05-09-2005

1. Product and Company Identification

Product Identification:

buffer-220mV - Part No.: 506244
506245

Company Identification:

REG- No.: HRB 1350 / Heidelberg

ProMinent Dosiertechnik GmbH
69123 Heidelberg, Im Schuhmachergewann 5-11
-Germany-
Tel: +49 (0)6221 842-0

2. Composition / Information on Ingredients

contains:

- potassium hexacyanoferrate (II) ($K_4[Fe(CN)_6]$) CAS Nr. 14459-95-1 < 1 %
 - potassium hexacyanoferrate (III) ($K_3[Fe(CN)_6]$) CAS Nr. 13746-66-2 < 1 %
 - potassium di-hydrogenphosphate (KH_2PO_4) CAS Nr. 7778-77-0 < 1 %
 - di-sodium hydrogenphosphate (Na_2HPO_4) CAS Nr. 7558-80-7 < 1 %
- in aqueous solution.

3. Hazards identification of the product

not hazardous for health according to the regulation 67/548/EWG

4. First aid measures

After skin contact: Rinse with water. Remove contaminated clothes.

After eye contact: Flush eyes with copious amounts of running water while lid is open.

After ingestion: Drink plenty of water. Provoke vomiting. See a physician when feeling sick.

5. Fire-fighting measures

Suitable extinguishing media: are to be fit in with the environment. Escaping vapours are to be densified with water.

Extinguishing media which must not be used for safety reasons: not applicable

Special exposure hazards : not flammable.

6. Accidental release measures

Remove with liquid-adsorbing material. Rests are to be flushed away with plenty of water.

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7. Handling and storage

Handling: The product is to be handled with the usual care and caution for chemicals.

Storage: Keep original container tightly sealed.

8. Exposure / personal protection

Breathing equipment: necessary in case of vapours / aerosols occurring

Eye protection: necessary

Hand protection: necessary

9. Physical and chemical properties:

Physical state: liquid

colour: yellow

odour: inodorous

pH: 7 (undiluted at 20 °C)

cold sensitivity: under -5 °C

flash point: not applicable

vapour pressure: (aqueous solution)

relative density: approx. 1.0 kg/l (20 °C)

solubility: miscible in water (20 °C)

10. Stability and Reactivity

Conditions to avoid: no decomposition if used according to specifications

Materials to avoid: metals

Hazardous decomposition products: none known

11. Toxicological Information

Quantitative data about the toxicity of the product are not available. Hazardous properties are not quite probable.

potassium hexacyanoferrate (II) LD50 : 6400 mg/kg (oral, rat)

potassium hexacyanoferrate (III) LDLo : 1600 mg/kg (oral, rat)

potassium di-hydrogenphosphate LD50 : not available

di-sodium hydrophosphate LD50 : not available

12. Ecological Information

When handled and used according to specifications, ecological problems are not to be expected.

13. Disposal Considerations

In consultation with the responsible local authority, must be subjected to special treatment: neutralisation. In case of chemical collecting actions of the authorities, small containers can be handed over together with this safety data sheet.

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14. Transport Information

The product is not a hazardous material according to the transport regulations:

15. Regulations

Classification and labelling according to the EEC regulations:

Symbols of danger: ---

R-phrases: ---

S-phrases: ---

National prescriptions:

Water hazard class (WGK): ---

16. Other Information

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

Since ProMinent cannot anticipate or control the conditions under which this product may be used, each user must, before using this product, assess and control the risks arising from their use of this product.