

# Safety Data Sheet

Version 00 dated 10/05/2016

## 1. Identification of the substance/mixture and the company/group

**Designation:** ORP buffer 220 mV  
**Decription:** ORP buffer, 220 mV – pH 7 (25°C)  
**Product code:** P01700114  
**Producer/Manufacturer:** Manumasure  
8 avenue du docteur Schweitzer  
69 330 Meyzieu  
FRANCE  
Tel. +33 (0)4 37 45 05 68  
**Emergency information:** Institut National de Recherche et de Sécurité, I.N.R.S. Tel. +33 (0)1 45 42 59 59

## 2. Hazards identification

**Classification of the mixture:** the mixture is not classed as hazardous in the sense of directive 1999/45/CE.

## 3. Composition/information on ingredients

**Composition:**  
Aqueous mixture

Ingredient name	Concentration (p/p)	CAS no.	CE no.	Classification as per 1999/45/CE directives
Potassium hexacyanoferrate (II)	< 0.4 %	14459-95-1	237-722-2	R52/53, harmful to aquatic organisms life with long lasting effects
Potassium hexacyanoferrate (III)	~ 2 %	13746-66-2	237-323-3	R32, contact with acids liberates very toxic gas

**Hazardous substance:**  
This product is not hazardous but contains a harmful to aquatic organisms compound.

## 4. First aid measures

### 4.1 Description of first aid:

**General indications:** Remove soiled clothing.  
**After inhalation:** Allow to breathe fresh air.  
**Skin contact:** Wash immediately and abundantly with water.  
**Eye contact:** Rinse immediately and thoroughly with water or eyewash.  
**After ingestion:** Rinse out mouth with water and then give water to drink

**If there is any trouble seek medical help.**

### 4.2 Main acute and delayed symptoms and effects:

No known effect.

### 4.3 Indication of any immediate medical care and specific treatments necessary:

Treat symptomatically

## 5. Fire-fighting measures

### 5.1 Extinguishing media:

**Suitable extinguishing media:** Use extinguishing appliances which are suitable for the local conditions and environment.  
The product does not burn.  
**Unsuitable extinguishing media:** No limitation.

### 5.2 Specific hazards arising from the substance or mixture:

In the event of fire, hazardous fumes are emitted.

**Other indications:** Non-combustible products.

## 6. Accidental release measures

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### 6.1 Personal precautions:

**For first-aid workers:** Provide the clean-up teams with appropriate protection.  
Air the zone.

**For non-first-aid workers:** Non-essential staff should be moved to a different area.

### 6.2 Environmental precautions:

Do not dispose of the product in surface water or drains.

### 6.3 Method and equipment for confinement and cleaning:

Contain the spillage and use inert solids such as clay or diatomaceous earth to absorb it.

### 6.4 References to other sections:

See Part 8. Exposure controls / personal protection.

## 7. Handling and storage

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### 7.1 Hazard-free handling precautions:

**Instructions:** Avoid contact with the eyes (wear safety spectacles) or skin (wear a lab coat or overalls).  
Do not inhale the vapour.  
Wash hands after handling.

### 7.2 Safe storage requirements, including any incompatibilities:

**Storage:** Store only in the original recipient in a cool, well-ventilated place (20 to 25°C).  
Store away from strong bases and acids and keep out of direct sunlight.

## 8. Exposure controls/personal protection

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### 8.1 Control parameter

Does not contain substances with occupational exposure limits.

### 8.2 Personal protective equipment

**General protective and hygienic measures:** Keep away from foodstuffs.  
Immediately remove soiled or damp clothing.  
Wash your hands before breaks and after work.  
Store the protective clothing separately.  
Avoid any contact with the skin or eyes.

**Eye protection:** Wear safety glasses with side protection.

**Hand protection:** Wear safety gloves.  
Glove material resistant to Category III butyl rubber or nitrile rubber. The choice of appropriate gloves is not just a question of the material, but also of other quality criteria which may vary between manufacturers.

**Body protection:** Protective work clothing.

## 9. Physical and chemical properties

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### General indications:

**Form:** Clear liquid  
**Colour:** Yellow  
**Odour:** Odourless  
**pH value (at 25°C):** 7.00

### Change in condition:

**Melting point:** Not applicable  
**Boiling point:** 100°C

**Ignition temperature:** Not applicable

**Inflammability:** The substance is not inflammable

**Explosion hazard:** The product is not explosive

**Oxidizing properties:** No data available

**Solubility in other solvents:** No data available

## 10. Stability and reactivity

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**Reactivity:** No known hazardous reactions

**Chemical stability:** Chemically stable product

**Conditions to avoid:** Extreme temperatures and direct sunlight

**Incompatible materials:** No data available

## 11. Toxicological information

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<b>Acute toxicology:</b>	No information is available on the product itself
<b>Irritation and corrosivity:</b>	May cause irritation of the eyes, airways and skin
<b>Sensitizing effects:</b>	No known effects
<b>Specific toxicity for target organ/ single exposure:</b>	The mixture is not classified as specifically toxic for a target organ after a single exposure
<b>Serious effects due to repeated or prolonged exposure:</b>	The mixture is not classified as specifically toxic for a target organ after repeated exposure
<b>CMR effects (carcinogenic, mutagenic or toxic to reproduction):</b>	No known CMR effects
<b>Additional information:</b>	Handle this product with the usual precautions recommended for chemicals

## 12. Ecological information

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<b>Toxicity:</b>	No information is available on the product itself, contains 0.4% of a harmless compound to aquatic organisms
<b>Persistence and degradability:</b>	No information is available on the product itself
<b>Bioaccumulative potential:</b>	No data available
<b>Mobility in soil:</b>	No data available

## 13. Disposal considerations

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<b>Recommendation:</b>	Waste disposal is regulated by the competent regional services. Please contact the competent services (waste-disposal authority or company) who will tell you what measures to take for disposal.
<b>Uncleaned packaging:</b>	Dispose of waste as for an unused product.

## 14. Transport information

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<b>Land transport:</b>	Not subject to transport rules.
<b>River transport:</b>	Not subject to transport rules
<b>Maritime transport:</b>	Not subject to transport rules
<b>Air transport:</b>	Not subject to transport rules
<b>Environmental hazard:</b>	No

## 15. Regulatory information

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<b>Chemical safety assessment:</b>	No chemical safety assessment has been performed.
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## 16. Other information

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<b>Revision date:</b> not applicable
<b>Reason for revision:</b> not applicable

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