

**Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)**

Date 5.9.2011

Previous date: -

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifier****1.1.1 Commercial Product Name**

Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)

**1.1.2 Product code**

FF6261 5 L

**1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Recommended use**

MP0112 - Laboratory use: R&amp;D laboratory use

**1.3 Details of the supplier of the safety data sheet****1.3.1 Supplier**

Oy FF-Chemicals Ab

**P.O.Box**

Teollisuustie 4

**Postcode and post office**

FI-90830 Haukipudas

Finland

**Telephone**

+358 (0)8 5563 193

**Telefax**

+358 (0)8 5563 194

**Email**

ffc@ff-chemicals.fi

**1.4 Emergency telephone number****1.4.1 Telephone number, name and address**

Emergency telephone number 112

**2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008.

**2.2 Label elements****2.3 Other hazards****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg. number**

7664-38-2

**Chemical name of the substance**

phosphoric acid...%

**Concentration Classification**

&lt; 10%

C; R34;  
Skin Corr. 1B, H314**4. FIRST AID MEASURES****4.1 Description of first aid measures****4.1.2 Inhalation**

If breathed in, move person into fresh air.

**4.1.3 Skin contact**

If on skin, rinse well with water.

**4.1.4 Eye contact**

If in eyes, rinse with water for 15 minutes.

**4.1.5 Ingestion**

Drink 1 or 2 glasses of water. Do NOT induce vomiting. Call a POISON CENTER or doctor/physician.

**Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)**

Date 5.9.2011

Previous date: -

- 4.2 Most important symptoms and effects, both acute and delayed**  
no data available
- 4.3 Indication of immediate medical attention and special treatment needed**

**5. FIREFIGHTING MEASURES**

Not combustible.

- 5.1 Extinguishing media**
- 5.1.1 Suitable extinguishing media**  
Product is compatible with standard fire-fighting agents.
- 5.1.2 Extinguishing media which must not be used for safety reasons**  
Information not available
- 5.2 Special hazards arising from the substance or mixture**  
Information not available
- 5.3 Advice for firefighters**  
Protective equipment and precautions for firefighters

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**
- 6.2 Environmental precautions**  
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**  
Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
- 6.4 Reference to other sections**

**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
General industrial hygiene practice.  
Ensure adequate ventilation, especially in confined areas.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store at room temperature in the original container.
- 7.3 Specific end use(s)**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- 8.1 Control parameters**
- 8.2 Exposure controls**
- 8.2.1 Appropriate engineering controls**  
Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**  
Required, if fumes/vapours are generated
- 8.2.2.2 Hand protection**  
Protective gloves
- 8.2.2.3 Eye/face protection**  
Goggles
- 8.2.2.4 Skin protection**  
Lab coat

**Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)**

Date 5.9.2011

Previous date: -

**8.2.3 Environmental exposure controls**

Ensure adequate ventilation, especially in confined areas.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>9.1</b>	<b>Important Health Safety and Environmental Information</b>	
<b>9.1.1</b>	<b>Appearance</b>	Liquid,clear
<b>9.1.2</b>	<b>Odour</b>	odourless
<b>9.1.3</b>	<b>Odour threshold</b>	-
<b>9.1.4</b>	<b>pH</b>	2,2
<b>9.1.5</b>	<b>Melting point/freezing point</b>	Information not available
<b>9.1.6</b>	<b>Initial boiling point and boiling range</b>	Information not available
<b>9.1.7</b>	<b>Flash point</b>	does not ignite
<b>9.1.8</b>	<b>Evaporation rate</b>	Information not available
<b>9.1.9</b>	<b>Flammability (solid, gas)</b>	-
<b>9.1.10</b>	<b>Explosive properties</b>	
<b>9.1.10.1</b>	<b>Lower explosion limit</b>	Information not available
<b>9.1.10.2</b>	<b>Upper explosion limit</b>	Information not available
<b>9.1.11</b>	<b>Vapour pressure</b>	Information not available
<b>9.1.12</b>	<b>Vapour density</b>	Information not available
<b>9.1.13</b>	<b>Relative density</b>	0,999 kg/l
<b>9.1.14</b>	<b>Solubility(ies)</b>	
<b>9.1.14.1</b>	<b>Water solubility</b>	soluble
<b>9.1.14.2</b>	<b>Fat solubility (solvent - oil to be specified)</b>	Information not available
<b>9.1.15</b>	<b>Partition coefficient: n-octanol/water</b>	Information not available
<b>9.1.16</b>	<b>Auto-ignition temperature</b>	not auto-flammable
<b>9.1.17</b>	<b>Decomposition temperature</b>	Information not available
<b>9.1.18</b>	<b>Viscosity</b>	Information not available
<b>9.1.19</b>	<b>Explosive properties</b>	Not explosive
<b>9.1.20</b>	<b>Oxidising properties</b>	-
<b>9.2</b>	<b>Other information</b>	

**10. STABILITY AND REACTIVITY**

<b>10.1</b>	<b>Reactivity</b>	Information not available
<b>10.2</b>	<b>Chemical stability</b>	Stable under normal conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4</b>	<b>Conditions to avoid</b>	Heat, flames and sparks.
<b>10.5</b>	<b>Incompatible materials</b>	Information not available
<b>10.6</b>	<b>Hazardous decomposition products</b>	Information not available

**Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)**

Date 5.9.2011

Previous date: -

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****11.1.1 Acute toxicity**

LD50/oral/rat =1540 mg/kg ( phosphoric acid)

**11.1.2 Irritation and corrosion**

According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

**11.1.3 Sensitisation**

Information not available

**11.1.4 Subacute, subchronic and prolonged toxicity**

Contains no ingredient listed as a carcinogen

**11.1.5 STOT-single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**11.1.6 STOT-repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**11.1.7 Aspiration hazard**

-

**12. ECOLOGICAL INFORMATION****12.1 Toxicity****12.1.1 Aquatic toxicity**

Information not available

**12.2 Persistence and degradability****12.2.1 Biodegradation**

Information not available

**12.2.2 Chemical degradation**

Information not available

**12.3 Bioaccumulative potential**

Information not available

**12.4 Mobility in soil**

Information not available

**12.5 Results of PBT and vPvB assessment**

Information not available

**12.6 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of wastes in an approved waste disposal facility.

**13.2 Waste from residues / unused products**

The product has to be disposed of as laboratory chemical in accordance with local regulations.

**14. TRANSPORT INFORMATION**

	<b>Land transport ADR/RID</b>	<b>Sea transport IMDG/IMO</b>	<b>Air transport ICAO/IATA</b>
<b>14.1 UN number</b>			

**Phosphate Buffer 0,02 mol/l pH 2,2 23°C HPLC Running Solution (R/O, p.a)**

Date 5.9.2011

Previous date: -

<b>14.2 UN proper shipping name</b>			
<b>14.3 Transport hazard class(es)</b>			
<b>14.4 Packing group</b>			
<b>14.5 Environmental hazards</b>			
<b>Other information</b>	Not classified as dangerous in the meaning of transport regulations.		

**14.6 Special precautions for users****14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.2 Chemical safety assessment****16. OTHER INFORMATION****16.4 Classification procedure**  
REGULATION (EC) No 1272/2008**16.6 Training advice**  
Provide adequate information, instruction and training for operators.**16.8 Additional information available from:**  
Oy FF-Chemicals Ab, Tel. +358 8-5563 193  
ffc@ff-chemicals.fi

The information contained herein is based on the present state of our knowledge and does therefore not guarantee certain properties.