

**Phosphate buffer pH 5,5**

Date 7.7.2014

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 pH 5,5

**1.1.2 Product code**

FF2416 10 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**

1310-73-2

**Chemical name of the substance**

sodium hydroxide

**Concentration Classification**

&lt; 0,5%

C; R35;  
Skin Corr. 1A, 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.

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**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****8.1.1 Threshold limits**

1310-73-2	sodium hydroxide	2 mg/m <sup>3</sup> (15 min)
		kattoarvo (HTP2014)

**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

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- 8.2.2.3 Eye/face protection**  
Goggles
- 8.2.2.4 Skin protection**  
Lab coat
- 8.2.3 Environmental exposure controls**  
Ensure adequate ventilation, especially in confined areas.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**  
Liquid,clear
- 9.1.2 Odour** odourless
- 9.1.3 Odour threshold** -
- 9.1.4 pH** 5,5
- 9.1.5 Melting point/freezing point** Information not available
- 9.1.6 Initial boiling point and boiling range** Information not available
- 9.1.7 Flash point** does not ignite
- 9.1.8 Evaporation rate** Information not available
- 9.1.9 Flammability (solid, gas)** -
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** Information not available
- 9.1.10.2 Upper explosion limit** Information not available
- 9.1.11 Vapour pressure** Information not available
- 9.1.12 Vapour density** Information not available
- 9.1.13 Relative density** -
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** soluble
- 9.1.14.2 Fat solubility (solvent - oil to be specified)** Information not available
- 9.1.15 Partition coefficient: n-octanol/water** Information not available
- 9.1.16 Auto-ignition temperature** not auto-flammable
- 9.1.17 Decomposition temperature** Information not available
- 9.1.18 Viscosity** Information not available
- 9.1.19 Explosive properties** Not explosive
- 9.1.20 Oxidising properties** -
- 9.2 Other information**

**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity**  
Information not available
- 10.2 Chemical stability**  
Stable under normal conditions.
- 10.3 Possibility of hazardous reactions**  
No dangerous reaction known under conditions of normal use.
- 10.4 Conditions to avoid**  
Heat, flames and sparks.
- 10.5 Incompatible materials**  
Information not available

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**10.6 Hazardous decomposition products**

Information not available

**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****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**

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**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**

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