

Buffer Solution pH 2,00 (A) 20°C (Citrate buffer)

Date 29.10.2013

Previous date: 4.2.2013

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

Buffer Solution pH 2,00 (A) 20°C (Citrate buffer)

1.1.2 Product code

FF160 15 ML;FF160 500 ML;FF161 1 L;FF161 5 L

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

Laboratory chemical.

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 hazardous.

2.2 Label elements**2.3 Other hazards****3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Solution

3.3 Other information

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

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4.1.2 Inhalation

Move the exposed to fresh air.

4.1.3 Skin contact

Flush with copious amounts of water.

4.1.4 Eye contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids.

4.1.5 Ingestion

Rinse mouth with water and give much water to drink.

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4.2 Most important symptoms and effects, both acute and delayed

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4.3 Indication of immediate medical attention and special treatment needed

If feeling unwell, seek medical advice.

5. FIREFIGHTING MEASURES

Non-combustible.

5.1 Extinguishing media**5.1.1 Suitable extinguishing media**

Extinguishing media should be suitable to surrounding materials.

5.2 Special hazards arising from the substance or mixture

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5.3 Advice for firefighters

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6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

No specific instructions.

6.2 Environmental precautions

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6.3 Methods and materials for containment and cleaning up

Absorb in appropriate material. Pick up in containers for treatment as waste. Clean contaminated surfaces. Ventilate the area.

6.4 Reference to other sections

8, 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Obey good laboratory practices, good hygiene and safety guidelines.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

7.3 Specific end use(s)**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters****8.1.2 Other information on limit values**

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8.1.3 Limit values in other countries

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8.1.4 DNELs

No information available.

8.1.5 PNECs

No information available.

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Obey good laboratory practices, good hygiene and safety guidelines. Adequate ventilation.

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- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
Respirator if vapours or aerosols are escaped in air.
- 8.2.2.2 Hand protection**
Protective gloves complying with EN 374.
- 8.2.2.3 Eye/face protection**
Protective goggles.
- 8.2.2.4 Skin protection**
Working clothes.

9. PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Important Health Safety and Environmental Information**
- 9.1.1 Appearance**
Neste.
- 9.1.2 Odour** No information available.
- 9.1.3 Odour threshold** No information available.
- 9.1.4 pH** 2,00 (20 °C)
- 9.1.5 Melting point/freezing point** No information available.
- 9.1.6 Initial boiling point and boiling range** No information available.
- 9.1.7 Flash point** Not applicable.
- 9.1.8 Evaporation rate** No information available.
- 9.1.9 Flammability (solid, gas)** Non flammable.
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** -
- 9.1.10.2 Upper explosion limit** -
- 9.1.11 Vapour pressure** N/I
- 9.1.12 Vapour density** N/I
- 9.1.13 Relative density** No information available.
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** Soluble.
- 9.1.15 Partition coefficient: n-octanol/water** No information available.
- 9.1.16 Auto-ignition temperature** Not applicable.
- 9.1.17 Decomposition temperature** No information available.
- 9.1.18 Viscosity** No information available.
- 9.1.19 Explosive properties** No
- 9.1.20 Oxidising properties** No
- 9.2 Other information**

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
No information available.
- 10.2 Chemical stability**
Stable in normal conditions.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Strong heating.

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- 10.5 Incompatible materials**
N/I
- 10.6 Hazardous decomposition products**
Information not available

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
- 11.1.1 Acute toxicity**
No hazard classification.
- 11.1.2 Irritation and corrosion**
No hazard classification.
- 11.1.3 Sensitisation**
No hazard classification.
- 11.1.4 Subacute, subchronic and prolonged toxicity**
No hazard classification.
- 11.1.5 STOT-single exposure**
No hazard classification.
- 11.1.6 STOT-repeated exposure**
No hazard classification.
- 11.1.7 Aspiration hazard**
Not classified.

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
No ecological problems are to be expected when the product is handled and used with due care and attention.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
No information available.
- 12.5 Results of PBT and vPvB assessment**
No information available.
- 12.6 Other adverse effects**

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
- 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

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

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14.2 UN proper shipping name			
14.3 Transport hazard class (es)			
14.4 Packing group			
14.5 Environmental hazards			
Other information	Not classified as dangerous in the meaning of transport regulations.	Not classified as dangerous in the meaning of transport regulations.	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**
REACH, CLP.**15.2 Chemical safety assessment****16. OTHER INFORMATION****16.3 Key literature references and sources for data**
. CLP Regulation (1272/2008/EY)**16.6 Training advice**
Obey good laboratory practices, good hygiene and safety guidelines.**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.