

Buffer Solution pH 4.2 25°C (A)

Date 6.2.2013

Previous date: -

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

Buffer Solution pH 4.2 25°C (A)

1.1.2 Product code

FF6120 10 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

Street address

Teollisuustie 4

Postcode and post office

FI-90830 Haukipudas

Finland

Telephone

+358 8 5563 193

Telefax

+358 8 5563 194

Email

ffc@ff-chemicals.fi

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

Please contact the Emergency Centre in your own country.

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****Hazardous components****CAS/EC and Reg. number**

64-19-7

Chemical name of the substance

Acetic acid

Concentration Classification

< 10 %

R10;C; R35;
Flam. Liq. 3, H226; Skin Corr. 1A,
H314**3.3 Other information**

The texts of R and H phrases can be read in chapter 16.

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.

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- 4.1.4 Eye contact**
Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Contact an ophthalmologist if irritation persists.
- 4.1.5 Ingestion**
Rinse mouth. Seek medical advice if symptoms persist.
- 4.2 Most important symptoms and effects, both acute and delayed**
No information available.
- 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**
Evacuate the area. Wear personal protective equipment.
- 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 waste treatment. 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**
- 8.1.1 Threshold limits**
- | | | |
|-------------|----------------------------|-------------------------------|
| Acetic acid | 5 ppm (8 h) | 10 ppm (15 min) |
| | 13 mg/m ³ (8 h) | 25 mg/m ³ (15 min) |
- 8.1.2 Other information on limit values**
The values above are Finnish OEL values.
- 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 needed.
- 8.2.2 Individual protection measures**
- 8.2.2.1 Respiratory protection**
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- 8.2.2.2 Hand protection**
Protective gloves complying with EN 374.
- 8.2.2.3 Eye/face protection**
Protective goggles EN 166.
- 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**
Liquid.
- 9.1.2 Odour** N/I
- 9.1.3 Odour threshold** N/I
- 9.1.4 pH** 4.2 (25 °C)
- 9.1.5 Melting point/freezing point** N/I
- 9.1.6 Initial boiling point and boiling range** N/I
- 9.1.7 Flash point** N/I
- 9.1.8 Evaporation rate** N/I
- 9.1.9 Flammability (solid, gas)** N/I
- 9.1.10 Explosive properties**
- 9.1.10.1 Lower explosion limit** -
- 9.1.10.2 Upper explosion limit** -
- 9.1.11 Vapour pressure** No information available.
- 9.1.12 Vapour density** No information available.
- 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** No information available.
- 9.1.17 Decomposition temperature** No information available.
- 9.1.18 Viscosity** No information available.
- 9.1.19 Explosive properties** No information available.
- 9.1.20 Oxidising properties** No information available.
- 9.2 Other information**

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
No information available.

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- 10.2 Chemical stability**
Stable in normal conditions.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Strong heating.
- 10.5 Incompatible materials**
No information available.
- 10.6 Hazardous decomposition products**
N/I

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 hazard classification.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No hazard classification.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
Mobile, water solution.
- 12.5 Results of PBT and vPvB assessment**
No information available.
- 12.6 Other adverse effects**

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Disposal in compliance with local and national regulation.

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14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number			
14.2 UN proper shipping name			
14.3 Transport hazard class(es)			
14.4 Packing group			
14.5 Environmental hazards			
Other information			

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 regulation, CLP regulation (EC).
 Finnish Occupational Exposure Limit values.

15.2 Chemical safety assessment

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16. OTHER INFORMATION**16.3 Key literature references and sources for data**

Harmonised classification according to CLP regulation.
 ECHA C&L Inventory.

16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements

R10 Flammable.
 R35 Causes severe burns.
 H226 Flammable liquid and vapour.
 H314 Causes severe skin burns and eye damage.

16.6 Training advice

Obey good laboratory practices, good hygiene and safety guidelines.

16.8 Additional information available from:

Oy FF-Chemicals Ab, Finland, Tel: 0358 (0)8 5563; ffc@ff-chemicals.fi

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