

Acetate Buffer, solution pH 4,5 20°C

Date 30.5.2014

Previous date: -

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

Acetate Buffer, solution pH 4,5 20°C

1.1.2 Product code

FF6496 20 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

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.
- 4.1.5 Ingestion**
Rinse mouth with water and give much water to drink.
- 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**
May liberate hazardous fumes or vapour in case of fire.
- 5.3 Advice for firefighters**
Fire fighters have to wear a respirator.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Evacuate the area. Wear personal protective equipment.
- 6.2 Environmental precautions**
-
- 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**
- 8.1.1 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**
-
- 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.
- 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**
Tightly fitting goggles or whole mask (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**
Neste.
- 9.1.2 Odour**
No information available.
- 9.1.3 Odour threshold**
No information available.
- 9.1.4 pH**
4,5 (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**
Ei.
- 9.1.20 Oxidising properties**
Ei
- 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**
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**
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 | No hazard classification. | No hazard classification. | No hazard classification. |

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)

16.4 Classification procedure

Harmonised classification according to CLP regulation.

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, Tel. +358 8-5563 193

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