Sodium Citrate Buffer 0.05 mol/l pH 5.3 20°C

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

Sodium Citrate Buffer 0.05 mol/l pH 5.3 20°C

1.1.2 Product code

FF6231 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
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	Chemical name of the substance	Concentration	Classification

3.3 Other information

The mixture does not contain hazardous substances over concentration limits to trigger classification.

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.

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
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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

8.1.2 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 needed.

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
Liquid.

9.1.2	**Odour**	No information available.
9.1.3	**Odour threshold**	No information available.
9.1.4	**pH**	5.3 (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)**	Not 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 information available.
9.1.20	**Oxidising properties**	No information available.

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.

10.5 Incompatible materials
N/I

10.6 Hazardous decomposition products
No information 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.

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).

15.2 Chemical safety assessment
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16. OTHER INFORMATION

16.3 Key literature references and sources for data
ECHA C&L Inventory.
Harmonised classification according to CLP regulation.

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.