

**Standard Solution 422**

Date 1.2.2013

Previous date: -

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

Standard Solution 422

**1.1.2 Product code**

FF207 500 ML

**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****3.3 Other information**

The product does not contain hazardous substances.

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

-

**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.

**Standard Solution 422**

Date 1.2.2013

Previous date: -

**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 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**

-

**8.1.3 Limit values in other countries**

-

**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.

**Standard Solution 422**

Date 1.2.2013

Previous date: -

**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**

No information available.

**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.

**Standard Solution 422**

Date 1.2.2013

Previous date: -

**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**

**Standard Solution 422**

Date 1.2.2013

Previous date: -

	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****16. OTHER INFORMATION****16.3 Key literature references and sources for data**  
ECHA C&L Inventory.**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.