

POTASSIUM PERMANGANATE 0,04 mol/l (0,2) N

Date 21.11.2011

Previous date: -

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

POTASSIUM PERMANGANATE 0,04 mol/l (0,2) N

1.1.2 Product code

FF860 10 L

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

MP0112 - Laboratory use: R&D laboratory use

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**

This product is a mixture. Health hazard information is based on its components.

1272/2008 (CLP)

Aquatic Chronic 2, H411

67/548/EEC - 1999/45/EC

N; R51/53

2.2 Label elements**1272/2008 (CLP)**

GHS09

Hazard Statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/container to [].

2.3 Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg. number**

7722-64-7

Chemical name of the substance

potassiumpermanganate

Concentration Classification

0,6%

O; R8;Xn; R22;N; R50-53;
Ox. Sol. 2, H272; Acute Tox. 4 (),
H302; Aquatic Acute 1, H400;
Aquatic Chronic 1, H410

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4. FIRST AID MEASURES**4.1 Description of first aid measures****4.1.2 Inhalation**

If inhaled, remove to fresh air.

4.1.3 Skin contact

Rinse with water. Remove contaminated clothing and shoes.

4.1.4 Eye contact

Wash off immediately with plenty of water.

4.1.5 Ingestion

Drink 1 or 2 glasses of water. Get medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

no data available

4.3 Indication of immediate medical attention and special treatment needed**5. FIREFIGHTING MEASURES****5.1 Extinguishing media****5.1.1 Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Extinguishing media which must not be used for safety reasons

Not specific restrictions.

5.2 Special hazards arising from the substance or mixture

Not combustible.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Specific methods

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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

Evacuate personnel to safe areas. Avoid breathing vapours, mist or gas.

6.2 Environmental precautions

Do not empty into drains.

6.3 Methods and materials for containment and cleaning up

Do not dispose of waste into sewer. Large spills should be collected mechanically (remove by pumping) for disposal. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Saastunut alue puhdistetaan.

6.4 Reference to other sections**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

Observe label precautions.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed.

7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Threshold limits**7722-64-7 potassiumpermanganate 0,5 mg/m³ (8 h)
Mn**8.2 Exposure controls****8.2.1 Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands after handling. Do not get in eyes, on skin, or on clothing.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Not required; except in case of aerosol formation.

8.2.2.2 Hand protection

Protective gloves The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

8.2.2.3 Eye/face protection

Goggles

8.2.2.4 Skin protection

Lab coat

8.2.3 Environmental exposure controls

Prevent product from entering drains. Do not allow material to contaminate ground water system.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Important Health Safety and Environmental Information****9.1.1 Appearance**

Liquid,violet

9.1.2 Odour

odourless

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

No information available.

9.1.8 Evaporation rate

No information available.

9.1.9 Flammability (solid, gas)

No information available.

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

No information available.

9.1.10.2 Upper explosion limit

No information available.

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**

No information available.

9.1.14.2 Fat solubility (solvent - oil to be specified) No information available.**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.

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9.1.20	Oxidising properties	No information available.
9.2	Other information	

10. STABILITY AND REACTIVITY

10.1	Reactivity No dangerous reaction known under conditions of normal use.
10.2	Chemical stability The product is chemically stable.
10.3	Possibility of hazardous reactions Information not available
10.4	Conditions to avoid Information not available
10.5	Incompatible materials Information not available
10.6	Hazardous decomposition products Information not available

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects Information refers to the main component.
11.1.1	Acute toxicity LD50/dermal/rat =750 mg/kg
11.1.2	Irritation and corrosion no data available
11.1.3	Sensitisation no data available
11.1.4	Subacute, subchronic and prolonged toxicity Not classifiable as a human carcinogen.
11.1.5	STOT-single exposure The substance or mixture is not classified as specific target organ toxicant, single exposure.
11.1.6	STOT-repeated exposure The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

12. ECOLOGICAL INFORMATION

12.1	Toxicity
12.1.1	Aquatic toxicity LC ₅₀ =/96h/Ictalurus Catus= 0,1 mg/l
12.2	Persistence and degradability
12.2.1	Biodegradation No information available.
12.2.2	Chemical degradation 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

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- 12.6 Other adverse effects**
Do not allow contact with soil, surface or ground water.

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose of as unused product.
- 13.2 Waste from residues / unused products**
Dispose of wastes in an approved waste disposal facility.

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number	3082	3082	
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POTASSIUM PERMANGANATE)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POTASSIUM PERMANGANATE)	
14.3 Transport hazard class(es)	9	9	
14.4 Packing group	III	III	
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

WEL substance

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Directive 96/82/EC applies
Hazardous to the environment
9b
Amount 1: 200 t
Amount 2 : 500 t
- 15.2 Chemical safety assessment**

16. OTHER INFORMATION

- 16.4 Classification procedure**
Output data
REGULATION (EC) No 1272/2008
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Recommended restrictions

Take note of Dir 94/33/EC on the protection of young people at work.

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.