POTASSIUM HYDROXIDE USP VS 0,1 mol/l In Methanol

Date 24.8.2011 Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier

1.1.1 Commercial Product Name

POTASSIUM HYDROXIDE USP VS 0,1 mol/l In Methanol

1.1.2 Product code

FF6095 200 ML

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)

Eye Irrit. 2, H319
Skin Irrit. 2, H315
Flam. Liq. 2, H225
Acute Tox. 3, H331
Acute Tox. 3, H311
Acute Tox. 3, H301
STOT SE 1, H370

67/548/EEC - 1999/45/EC

R11-23/24/25-36/38

2.2 Label elements

1272/2008 (CLP)

GHS07 - GHS08 - GHS06 - GHS02

Signal word **Danger**

Hazard Statements

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H225	Highly flammable liquid and vapour.
H331	Toxic if inhaled.
H311	Toxic in contact with skin.
H301	Toxic if swallowed.
H370	Causes damage to organs <or state all organs affected, if known> <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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
1310-58-3	potassiumhydroxide	0,7%	Xn; R22;C; R35; Acute Tox. 4 (), H302; Skin Corr. 1A, H314
67-56-1	methanol	99,3%	T; R23/24/25-39/23/24/25;F; R11; Flam. Liq. 2, H225; Acute Tox. 3 (), H331; Acute Tox. 3 (), H311; Acute Tox. 3 (), H301; STOT SE 1, H370 ()

4. FIRST AID MEASURES

4.1 Description of first aid measures
Consult a physician. Show this safety data sheet to the doctor in attendance.

4.1.2 Inhalation
If breathed in, move person into fresh air. If breathing has stopped, apply artificial respiration. Consult a physician.

4.1.3 Skin contact
Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

4.1.4 Eye contact
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

4.1.5 Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed
Liquid causes strong irritation to the mucous membrane and severe damage to the cornea. Cough, Shortness of breath,Headache Lung oedema

4.3 Indication of immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media
Water mist, Alcohol-resistant foam

5.2 Special hazards arising from the substance or mixture
In case of fire hazardous decomposition products may be produced such as: Carbon oxides,Potassium oxides

5.3 Advice for firefighters
Wear self-contained breathing apparatus and protective suit.

5.4 Specific methods
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
See chapter 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid exposure to vapour. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Threshold limits

1310-58-3	potassiumhydroxide	2 mg/m^3 (15 min)	
67-56-1	methanol	200 ppm (8 h)	250 ppm (15 min)
		270 mg/m^3 (8 h)	330 mg/m^3 (15 min)

8.2 Exposure controls

8.2.1 Appropriate engineering controls
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

8.2.2 Individual protection measures

8.2.2.1 Respiratory protection
Required, if fumes/vapours are generated Ensure adequate ventilation.

8.2.2.2 Hand protection
Protective gloves Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

8.2.2.3 Eye/face protection
Tightly fitting safety goggles,Face-shield

8.2.2.4 Skin protection
Complete suit protecting against chemicals.Flame retardant protective clothing .The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Important Health Safety and Environmental Information

9.1.1	**Appearance** Liquid, clear	
9.1.2	**Odour**	no data available
9.1.3	**Odour threshold**	no data available
9.1.4	**pH**	no data available
9.1.5	**Melting point/freezing point**	no data available
9.1.6	**Initial boiling point and boiling range**	no data available
9.1.7	**Flash point**	11 °C
9.1.8	**Evaporation rate**	no data available
9.1.9	**Flammability (solid, gas)**	no data available
9.1.10	**Explosive properties**	
9.1.10.1	**Lower explosion limit**	no data available
9.1.10.2	**Upper explosion limit**	no data available
9.1.11	**Vapour pressure**	no data available
9.1.12	**Vapour density**	no data available
9.1.13	**Relative density**	no data available
9.1.14	**Solubility(ies)**	
9.1.14.1	**Water solubility**	no data available
9.1.14.2	**Fat solubility (solvent - oil to be specified)**	no data available
9.1.15	**Partition coefficient: n-octanol/water**	no data available
9.1.16	**Auto-ignition temperature**	no data available
9.1.17	**Decomposition temperature**	no data available
9.1.18	**Viscosity**	no data available
9.1.19	**Explosive properties**	no data available
9.1.20	**Oxidising properties**	no data available
9.2	**Other information**	

10. STABILITY AND REACTIVITY

10.1 Reactivity
no data available

10.2 Chemical stability
no data available

10.3 Possibility of hazardous reactions
no data available

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Water,Acids,Oxidizing agents,Light metals,Alkali metals,Metals.Acid chlorides,Acid anhydrides,Reducing agents,Organic materials,Copper,Reacts with the following substances: Halogens,Nitro compounds,Magnesium,Azides Dissolves aluminium and zinc slowly with formation of hydrogen.

10.6 Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

11.1.1 Acute toxicity
LD50/oral/rat = 5628 mg/kg (Methanol)
LD50/oral/rat = 273 mg/kg (potassium hydroxide)

11.1.2 Irritation and corrosion
Irritating to eyes and skin.

11.1.3 Sensitisation
no data available

11.1.4 Subacute, subchronic and prolonged toxicity
No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

11.1.5 STOT-single exposure
no data available

11.1.6 STOT-repeated exposure
no data available

11.1.7 Aspiration hazard
no data available

11.1.8 Other information on acute toxicity
Toxic by inhalation, in contact with skin and if swallowed.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Aquatic toxicity
LC50/48h/daphnia = 270 mg/l (potassium hydroxide)
LC50/96h/Fathead minnows = 28100 mg/l (Methanol)

12.2 Persistence and degradability

12.2.1 Biodegradation
no data available

12.2.2 Chemical degradation
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods
Dispose of as unused product.

13.2 Waste from residues / unused products
Send to a licensed waste management company.

14. TRANSPORT INFORMATION

	Land transport ADR/RID	**Sea transport IMDG/IMO**	**Air transport ICAO/IATA**
14.1 UN number	UN 1986	UN 1986	
14.2 UN proper shipping name	ALCOHOLS,FLAMMABLE,TOXIC, N.O.S. (Methanol,Potassium hydroxide)	ALCOHOLS,FLAMMABLE,TOXIC, N.O.S. (Methanol,Potassium hydroxide)	
14.3 Transport hazard class(es)	3 + 6.1	3 + 6.1	
14.4 Packing group	II	II	
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
no data available

15.2 Chemical safety assessment
no data available

16. OTHER INFORMATION

16.4 Classification procedure
REGULATION (EC) No 1272/2008

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

R11	Highly flammable.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R36/38	Irritating to eyes and skin.

16.6 Training advice
Provide adequate information, instruction and training for operators.

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.