

Sodium Hydroxide, solution 10 mol/l

Date 21.2.2013

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

Sodium Hydroxide, solution 10 mol/l

1.1.2 Product code

FF6036 10 L, FF6036 1 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**

Emergency telephone number 112

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****1272/2008 (CLP)**

Skin Corr. 1A, H314

67/548/EEC - 1999/45/EC

C; R35

2.2 Label elements

Classification according to 1999/45/EC Causes severe burns.

1272/2008 (CLP)

GHS05

Signal word

Danger**Hazard Statements**

H314

Causes severe skin burns and eye damage.

Precautionary Statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

2.3 Other hazards**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Solution.

Hazardous components

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CAS/EC and Reg. number	Chemical name of the substance	Concentration	Classification
1310-73-2	Sodium Hydroxide	41 %	C; R35; Skin Corr. 1A, H314; (Met. Corr. 1, H290)

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

Move the exposed person out from the contaminated area. Take off contaminated clothing immediately. Wear personal protective equipment.

4.1.2 Inhalation

Move the exposed to fresh air. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

4.1.3 Skin contact

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician.

4.1.4 Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Contact an ophthalmologist.

4.1.5 Ingestion

Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage. In severe cases can cause risk of blindness.

4.3 Indication of immediate medical attention and special treatment needed

IF exposed or concerned: Immediately call a POISON CENTER or doctor/physician.

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

Toxic combustion gases may be liberated in event of fire.

5.3 Advice for firefighters

Fire fighters have to wear a pressurized respirator and chemical protection suit.

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

Evacuate the area. Wear personal protective equipment. Avoid breathing vapours and mist. Do not get in eyes, on skin or clothing.

6.2 Environmental precautions

Prevent leakage into sewers, soil, and waters.

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

4, 8, 13.

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7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Prevent emissions of vapour and mists in air. Avoid inhalation of vapours and mist. Avoid contact with skin, eyes or clothing. Use personal protective equipment and local exhaust.

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**

1310-73-2	Sodium hydroxide	2 mg/m ³ (15 min) ceiling
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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

N/I

8.1.5 PNECs

N/I

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Obey good laboratory practices, good hygiene and safety guidelines. Take care of sufficient ventilation. Wash hands after handling. Immediately take off contaminated clothing and wash before reuse. Emergency shower and eyewash equipment should be available.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Respirator.

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**

liquid.

9.1.2 Odour

N/I

9.1.3 Odour threshold

N/I

9.1.4 pH

very alkaline.

9.1.5 Melting point/freezing point

N/I

9.1.6 Initial boiling point and boiling range

N/I

9.1.7 Flash point

Not applicable.

9.1.8 Evaporation rate

N/I

9.1.9 Flammability (solid, gas)

non-flammable.

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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	N/I
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	Freely soluble in water.
9.1.15	Partition coefficient: n-octanol/water	-
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 See chapter 10.3.
10.2	Chemical stability Stable in normal conditions.
10.3	Possibility of hazardous reactions Hazardous reaction possible with strong acids.
10.4	Conditions to avoid No information available.
10.5	Incompatible materials No information available.
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 Causes severe skin burns and eye damage. Causes severe burns which may not be immediately painful or visible.. Material infiltrates into eye and causes burning pain, if the rinsing og the eye is not started immediately. In severe cases there will be bad burns in the eye and permanent vision of loss is possible.
11.1.3	Sensitisation No hazard classification.
11.1.4	Subacute, subchronic and prolonged toxicity No hazard classification.
11.1.5	STOT-single exposure Causes irritation in respiratory system.
11.1.6	STOT-repeated exposure Repeated skin exposure may cause dermatitis.
11.1.7	Aspiration hazard Not classified.

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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
No hazard classification.
- 12.2 Persistence and degradability**
- 12.2.1 Biodegradation**
No information available.
- 12.3 Bioaccumulative potential**
No information available.
- 12.4 Mobility in soil**
Mobile, water solution.
- 12.5 Results of PBT and vPvB assessment**
No information available.
- 12.6 Other adverse effects**
Harmful effect due to pH shift. Death of fish possible

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Dispose of contents/container in accordance of local and national regulations.
- 13.2 Waste from residues / unused products**
Dispose of as hazardous waste in compliance with local and national regulations.

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number	1824	1824	
14.2 UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	
14.3 Transport hazard class(es)	8	8	
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**
REACH, CLP.
Finnish Occupational Exposure Limit values.

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- 15.2 Chemical safety assessment**
Chemical safety assessment has not been done.

16. OTHER INFORMATION

- 16.3 Key literature references and sources for data**
the data on the components. Harmonised classification according to CLP regulation.
OVA-ohjeet, Työterveyslaitos.
- 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**
R35 Causes severe burns.
H314 Causes severe skin burns and eye damage.
- 16.6 Training advice**
Appropriate handling of hazardous substances.
- 16.7 Recommended restrictions**
Access only for qualified personnel.
- 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.