

SODIUM HYDROXIDE 3,0 mol/l (3N) + 1 ML/10 L Triton X-100

Date 18.11.2011

Previous date: -

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

SODIUM HYDROXIDE 3,0 mol/l (3N) + 1 ML/10 L Triton X-100

1.1.2 Product code

FF2142S 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****1272/2008 (CLP)**

Skin Corr. 1A, H314

67/548/EEC - 1999/45/EC

C; R35

2.2 Label elements**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.

P303+P361+P353

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

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

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**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components**

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CAS/EC and Reg. number	Chemical name of the substance	Concentration Classification	
1310-73-2	Sodium hydroxide	12 %	C; R35 Skin Corr. 1A

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

In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

4.1.2 Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

4.1.3 Skin contact

Wash off immediately with plenty of water. If on clothes, remove clothes. Consult a physician.

4.1.4 Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.

4.1.5 Ingestion

If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Causes severe skin burns and eye damage.

4.3 Indication of immediate medical attention and special treatment needed

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.

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

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5.2 Special hazards arising from the substance or mixture

Burning produces irritant fumes.

5.3 Advice for firefighters

Protection of firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Specific methods

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

Use personal protective equipment. Ventilate the area.

6.2 Environmental precautions

Should not be released into the environment. Prevent product from entering drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste.

6.4 Reference to other sections

4, 8, 13.

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

Do not breathe vapours/dust. Avoid contact with skin and eyes.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container 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**1310-73-2 Sodium hydroxide 2 mg/m³ (15 min)**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

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8.1.5 PNECs

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8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Provide adequate ventilation. Remove and wash contaminated clothing before re-use. Ensure that eyewash stations and safety showers are close to the workstation location.

8.2.2 Individual protection measures**8.2.2.1 Respiratory protection**

Use respirator when performing operations involving potential exposure to vapour of the product.

8.2.2.2 Hand protection

Protective gloves complying with EN 374.

8.2.2.3 Eye/face protection

Safety glasses with side-shields

8.2.2.4 Skin protection

Long sleeved clothing

8.2.3 Environmental exposure controls

Do not empty into drains.

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

Liquid, clear, colourless.

9.1.2 Odour

odourless

9.1.3 Odour threshold

-

9.1.4 pH

~ 14

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

no data available

9.1.8 Evaporation rate

no data available

9.1.9 Flammability (solid, gas)

does not ignite

9.1.10 Explosive properties**9.1.10.1 Lower explosion limit**

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9.1.10.2 Upper explosion limit

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9.1.11	Vapour pressure	no data available
9.1.12	Vapour density	no data available
9.1.13	Relative density	1,117 kg/l
9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	soluble
9.1.15	Partition coefficient: n-octanol/water	-
9.1.16	Auto-ignition temperature	-
9.1.17	Decomposition temperature	-
9.1.18	Viscosity	no data available
9.1.19	Explosive properties	-
9.1.20	Oxidising properties	-
9.2	Other information	-

10. STABILITY AND REACTIVITY

10.1	Reactivity	-
10.2	Chemical stability	The product is chemically stable.
10.3	Possibility of hazardous reactions	Contact with metals liberates hydrogen gas. Risk of explosion.
10.4	Conditions to avoid	No information available.
10.5	Incompatible materials	Metals. Light metals. Ammonium salts. Acids.
10.6	Hazardous decomposition products	-

11. TOXICOLOGICAL INFORMATION

11.1	Information on toxicological effects	No information available.
11.1.2	Irritation and corrosion	Causes severe burns which may not be immediately painful or visible. May cause irreversible eye damage.
11.1.3	Sensitisation	-
11.1.4	Subacute, subchronic and prolonged toxicity	-
11.1.5	STOT-single exposure	-
11.1.6	STOT-repeated exposure	-
11.1.7	Aspiration hazard	-
11.1.8	Other information on acute toxicity	-

12. ECOLOGICAL INFORMATION

12.1	Toxicity
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12.1.1 Aquatic toxicity

The effects of this product on aquatic organisms are rapidly and significantly reduced through hydrolysis and by the presence of dissolved organic compounds in the aquatic environment.

Sodium hydroxide:

LC50/96h/rainbow trout = 45,5 mg/l (96h)

LC50/48h/daphnia = 76 mg/l (48h)

12.1.2 Toxicity to other organisms

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12.2 Persistence and degradability**12.2.1 Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

12.2.2 Chemical degradation

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12.3 Bioaccumulative potential

Bioaccumulation is unlikely.

12.4 Mobility in soil

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12.5 Results of PBT and vPvB assessment

-

12.6 Other adverse effects

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13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

160506 - laboratory chemicals consisting of or containing dangerous substances including mixtures of laboratory chemicals

13.2 Waste from residues / unused products

The product has to be disposed of as laboratory chemical in accordance with local 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

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14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, Annex VI, Table 3.1
- 15.2 Chemical safety assessment**
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16. OTHER INFORMATION

- 16.1 Additions, Deletions, Revisions**
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- 16.2 Key or legend to abbreviations and acronyms**
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- 16.3 Key literature references and sources for data**
REGULATION (EC) No 1272/2008
- 16.5 List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements**
R35 Causes severe burns.
- 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.