

TON R1

Date 3.4.2008

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**1.1 Identification of the substance or preparation****1.1.1 Commercial Product Name**

TON R1

1.1.2 Product code

984650

1.2 Use of the Substance/Preparation**1.2.1 Expressed in writing**

For general laboratory purposes.

1.3 Company/undertaking identification**1.3.1 Supplier**

Thermo Fisher Scientific Oy, Clinical Diagnostics Finland

1.3.2 Contact information:

Ratastie 2, P.O.Box 100
FI-01621 Vantaa
FINLAND
+358-9-329 100
+358-9-3291 0300
FI09215470

2. HAZARDS IDENTIFICATION

Irritant.
Irritating to eyes and skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Hazardous components**

3.1.1	3.1.2	3.1.3	3.1.4
CAS/EC and Reg.number	Chemical name of the substance	Concentration	Classification
1310-73-2	Sodium hydroxide	0.8 %	C; R35

4. FIRST AID MEASURES**4.3 Skin contact**

Wash off with soap and water.

4.4 Eye contact

Rinse with plenty of water.

4.5 Ingestion

Consult a physician if necessary.

5. FIRE-FIGHTING MEASURES**5.1 Suitable extinguishing media**Carbon dioxide (CO₂), Foam, Water**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions**

Use personal protective equipment.

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6.2 Environmental precautions

Flush with plenty of water. Do not flush into surface water or sanitary sewer system.

6.3 Methods for cleaning up

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

7. HANDLING AND STORAGE**7.1 Handling**

Avoid contact with skin and eyes. Wear personal protective equipment.

7.2 Storage

Keep away from combustible material. Do not smoke.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1 Exposure Limit Values****8.1.1 Threshold limits**1310-73-2 Sodium hydroxide 2 mg/m³ (8 h)**8.2 Exposure controls****8.2.1 Occupational exposure controls**

Wear protective gloves.

8.2.1.2 Hand protection

Impervious gloves

8.2.1.3 Eye protection

Goggles

8.2.1.4 Skin and body protection

Lab coat

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 General Information (appearance, odour)**

liquid

9.2 Important Health Safety and Environmental Information**9.2.2 Boiling point/range**

100 °C

9.2.4 Flammability (solid, gas)

not auto-flammable

9.2.7 Vapour pressure

not determined

9.2.8 Relative density1.0 g/cm³**9.2.9 Solubility****9.2.9.1 Water solubility**

completely soluble

10. STABILITY AND REACTIVITY**10.2 Materials to avoid**

Acids

11. TOXICOLOGICAL INFORMATION**11.1 Acute toxicity**

Sodium hydroxide:

LD50/oral/rat = 2000 mg/kg

11.2 Primary irritation

According to concentration, aqueous solution causes irritation or burns of eyes, skin and mucous membranes.

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12. ECOLOGICAL INFORMATION**12.1 Ecotoxicity****12.1.1 Aquatic toxicity**

Sodium hydroxide :

20 - 100 mg/l of sodium hydroxide in water may kill some water organisms by raising the pH.

Fish: LC₅₀ = 33 - 100 mg/l, 48 h**12.2 Mobility**

Sodium hydroxide :

Highly soluble in water, diffuses in the environment with water.

12.3 Persistence and degradability**12.3.2 Chemical degradation**

Sodium hydroxide:

hydrolyses in water.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

14.1	UN-No	-
14.2	Packaging group	-
14.3	Land transport	
14.3.1	Class	-

15. REGULATORY INFORMATION**15.1 Information on the warning label****15.1.1 Letter code of the warning symbol and indications of danger for the preparation**

Xi Irritant

15.1.2 Names of the ingredients given on the warning label

Sodium hydroxide

15.1.3 R-phrases(s)

R36/38 Irritating to eyes and skin.

15.1.4 S-phrases(s)

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28b After contact with skin, wash immediately with plenty of water.

16. OTHER INFORMATION**16.1 List of relevant R phrases**

R35 Causes severe burns.

R36/38 Irritating to eyes and skin.

16.4 Additional information available from:

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Code of the Material Safety Data Sheet: D06712-01-MSDS-TON R1-EN

Corporation mentioned in point 1.3.

The information in this datasheet is to our best knowledge correct and complete, and is offered in good faith as accurate. It characterizes the product with regard to the appropriate safety precautions. It does not guarantee properties of the product.

16.5**Literary reference**

The MSDS of the manufacturer.

This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC.

03.04.2008

LMKo