

Creatinine (Jaffé), Reagent B

Date 18.1.2008

Previous date: 13.9.2007

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

Creatinine (Jaffé), Reagent B

1.1.2 Product code

981810, 981811

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

In vitro diagnostic reagent for the clinical chemistry analyser.

1.3 Identification of the substance/preparation and the company/undertaking**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

1.4 Emergency telephone number**1.4.1 Telephone number, name and address**

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2. HAZARDS IDENTIFICATION

Corrosive.

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

3.1.1 CAS/EC and Reg.number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
1310-73-2	Sodium hydroxide	2 - 5 %	C; R35 Corrosive
9002-93-1	Triton X-100	< 5 %	Xn; R22-36/38-41 Harmful

4. FIRST AID MEASURES**4.1 Additional advice**

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

4.2 Inhalation

Move to fresh air.

Oxygen or artificial respiration if needed.

4.3 Skin contact

Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.

4.4 Eye contact

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

Keep eye wide open while rinsing.

Creatinine (Jaffé), Reagent B

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4.5 Ingestion

If swallowed, seek medical advice immediately and show this container or label.
Drink 1 or 2 glasses of water.
Do not induce vomiting.

5. FIRE-FIGHTING MEASURES**5.1 Suitable extinguishing media**

Halons, water, foam, carbon dioxide (CO₂).

5.3 Specific hazards

Fire may cause produce fumes hazardous to health.

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions**

Ensure adequate ventilation.
Use personal protective equipment.

6.2 Environmental precautions

Do not flush into surface water or drainage system without first diluting and neutralising.

6.3 Methods for cleaning up

Dilute with plenty of water.
Neutralise with acid.

7. HANDLING AND STORAGE**7.1 Handling**

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

7.2 Storage

Must be stored away from acids, metals, organic peroxides and easily flammable materials.

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**

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8.2.1.1 Respiratory protection

No personal respiratory protective equipment normally required.

8.2.1.2 Hand protection

Impervious butyl rubber gloves, nitrile rubber, PVC or other plastic material gloves.

8.2.1.3 Eye protection

Face-shield, if there is a risk of spashing. Do not use contact lenses, if there is a risk of splashing into the eyes.

8.2.1.4 Skin and body protection

Lab coat, rubber or plastic apron.

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

Clear, odourless, liquid.

Creatinine (Jaffé), Reagent B

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9.2	Important Health Safety and Environmental Information	
9.2.1	pH	14
9.2.2	Boiling point/range	n. 102°C
9.2.3	Flash point	does not flash
9.2.4	Flammability (solid, gas)	does not ignite, but does not support combustion
9.2.5	Explosive properties	
9.2.5.1	Lower explosion limit	-
9.2.5.2	Upper explosion limit	-
9.2.7	Vapour pressure	-
9.2.8	Relative density	n. 1000 kg/m ³
9.2.9	Solubility	
9.2.9.1	Water solubility	completely soluble
9.2.9.2	Fat solubility (solvent - oil to be specified)	-
9.2.10	Partition coefficient (n-octanol/water)	Too low to be determined.

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid**
Must not be stored in the heat or near hot objects.
- 10.2 Materials to avoid**
Acids, metals, organic materials, combustible material.
- 10.3 Hazardous decomposition products**
Thermal decomposition can lead to release of irritating gases and vapours.
Hydrogen, by reaction with metals

11. TOXICOLOGICAL INFORMATION

- 11.1 Acute toxicity**
LD50/intraperitoneally/mouse
- 11.2 Primary irritation**
According to concentration, aqueous solution causes irritations or burns of eyes, skin and mucous membranes.
- 11.3 Sensitisation**
Prolonged skin contact may defat the skin and produce dermatitis.
- 11.5 Human experience**
Swallowing is followed by pain in the stomach, swelling of lips, tongue, mouth and throat, difficulties in swallowing, increase in pulse rate, hypotony. Splashing in the eyes may cause swelling and gangrene of conjunctiva and cornea, the cornea getting opaque, swelling and light sensitive.

12. ECOLOGICAL INFORMATION

- 12.1 Ecotoxicity**
- 12.1.1 Aquatic toxicity**
Fish, water flea: LC50 = 33 - 100 mg/l (48 h).
20 - 100 mg/l of sodium hydroxide in water may kill some water organisms by raising the pH.
- 12.1.2 Toxicity to other organisms**
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- 12.2 Mobility**
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- 12.3 Persistence and degradability**
- 12.3.1 Biodegradation**
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Creatinine (Jaffé), Reagent B

Date 18.1.2008

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12.3.2 Chemical degradation

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12.4 Bioaccumulative potential

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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	UN1824
14.2	Packaging group	III
14.3	Land transport	
14.3.1	Class	Class 8
14.3.3	Description of the goods	Sodium hydroxide solution
14.4	Sea transport	
14.4.1	IMDG	-
14.4.2	Proper shipping name	-
14.5	Air transport	
14.5.1	ICAO/IATA	Class 8
14.5.2	Proper shipping name	Sodium hydroxide solution
14.5.3	Further Information	-

15. REGULATORY INFORMATION

15.1	Information on the warning label	
	EC Label	215-185-5
15.1.1	Letter code of the warning symbol and indications of danger for the preparation	
	C	Corrosive
15.1.2	Names of the ingredients given on the warning label	
	Sodium hydroxide	
15.1.3	R-phrases(s)	
	R34	Causes burns.
15.1.4	S-phrases(s)	
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S37/39	Wear suitable gloves and eye/face protection.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
15.1.5	Special regulations on certain preparations	
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16. OTHER INFORMATION

16.1	List of relevant R phrases	
	R22	Harmful if swallowed.
	R41	Risk of serious damage to eyes.
	R36/38	Irritating to eyes and skin.
	R34	Causes burns.
	R35	Causes severe burns.

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16.4 Additional information available from:

Code of the Material Safety Data Sheet: D00746-05-01-MSDS-Creatinine (Reagent B)-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, 199/45/EC and 2001/58/EC.

16.6 Additions, Deletions, Revisions

Changes in the sections 2, 3 and 12.

18.01.2008

LMKo