

Cleansing solution

Date 19.10.2007

Previous date: 15.3.2004

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

Cleansing solution

1.1.2 Product code

980659

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

For general laboratory purposes. Washing solution for the clinical chemistry analyzer.

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

2. HAZARDS IDENTIFICATION

Irritating to eyes and skin.

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

3.1.1 CAS/EINECS and reg. number	3.1.2 Chemical name of the substance	3.1.3 Concentration	3.1.4 Classification
1341-49-7	Ammonium bifluoride	0.57 %	T; R25;C; R34 Toxic, Corrosive

3.1.7 Further information

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

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4.2 Inhalation

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4.3 Skin contact

Wash off with plenty of water.

4.4 Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

4.5 Ingestion

Consult a physician.

5. FIRE-FIGHTING MEASURES

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- 5.1 Suitable extinguishing media**
Any.
- 5.2 Extinguishing media which must not be used for safety reasons**
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- 5.3 Specific hazards**
Fire may cause produce fumes hazardous to health.
- 5.4 Special protective equipment for firefighters**
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- 5.5 Specific methods**
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6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions**
-
- 6.2 Environmental precautions**
-
- 6.3 Methods for cleaning up**
Flush with water. Soak up with inert absorbent material.
- 6.4 Further information**
Precipitates with $\text{Ca}(\text{OH})_2$.

7. HANDLING AND STORAGE

- 7.1 Handling**
-
- 7.2 Storage**
-

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Exposure Limit Values**
- 8.1.1 Threshold limits**
1341-49-7 Ammonium bifluoride 2,5 mg/m³ (8 h)
- 8.2 Exposure controls**
- 8.2.1 Occupational exposure controls**
Not required because of small size of the container
- 8.2.1.1 Respiratory protection**
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- 8.2.1.2 Hand protection**
Hydrofluoric acid-resistant and solvent-resistant gloves (gloves made of VITON*).
- 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)**
Colourless, aqueous solution.
- 9.2 Important Health Safety and Environmental Information**
- 9.2.1 pH**
-

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9.2.2	Boiling point/range	100 °C
9.2.3	Flash point	-
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	-
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)	-

10. STABILITY AND REACTIVITY

10.2	Materials to avoid Incompatible with acids.
10.3	Hazardous decomposition products -

11. TOXICOLOGICAL INFORMATION

11.1	Acute toxicity -
11.2	Primary irritation -
11.3	Sensitisation -
11.5	Human experience -

12. ECOLOGICAL INFORMATION

12.1	Ecotoxicity
12.1.1	Aquatic toxicity -
12.1.2	Toxicity to other organisms -
12.2	Mobility -
12.3	Persistence and degradability
12.3.1	Biodegradation -
12.3.2	Chemical degradation -
12.4	Bioaccumulative potential -

13. DISPOSAL CONSIDERATIONS

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

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14. TRANSPORT INFORMATION

14.3	Land transport	
14.3.1	Class	-
14.3.2	Risk No.	-
14.3.3	Description of the goods	Cleansing solution
14.3.4	Further Information	-
14.4	Sea transport	
14.4.1	IMDG	-
14.4.2	Proper shipping name	Ammonium bifluoride
14.4.3	Further Information	-
14.5	Air transport	
14.5.1	ICAO/IATA	-
14.5.2	Proper shipping name	Ammonium bifluoride
14.5.3	Further Information	-

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	
	Ammonium bifluoride	
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.
	S37	Wear suitable gloves.
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

16. OTHER INFORMATION

16.1	Full text of R-phrases referred to under sections 2 and 3
	R36/38 Irritating to eyes and skin.
	R25 Toxic if swallowed.
	R34 Causes burns.
16.4	Additional information available from:
	Code of the Material Safety Data Sheet: D02111-03-03-MSDS-Cleansing solution-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
	This product has been evaluated in accordance with the directives 1967/548/EEC, 1999/45/EC and 2001/58/EC.
16.6	Additions, Deletions, Revisions
	Changes in the sections 1.2, 1.3 and 16.

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MJK