

AMMONIUM BARIUM CHLORIDE SOLUTION

Date 14.4.2011

Previous date: -

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

AMMONIUM BARIUM CHLORIDE SOLUTION

1.1.2 Product code

FF2331 5 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)**

Acute Tox. 4, H302

67/548/EEC - 1999/45/EC

Xn; R22

2.2 Label elements**1272/2008 (CLP)**

GHS07

Signal word

Warning**Hazard Statements**

H302

Harmful if swallowed.

Precautionary Statements

P301+P310

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

2.3 Other hazards

-

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Hazardous components****CAS/EC and Reg. number**

10361-37-2

Chemical name of the substance

Bariumchloride

Concentration Classification

< 10 %

T; R25;Xn; R20

Acute Tox. 3 ; Acute Tox. 4

12125-02-9

Ammoniumchloride

< 5 %

Xn; R22;Xi; R36

Acute Tox. 4 ; Eye Irrit. 2

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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

If breathed in, move person into fresh air.

4.1.3 Skin contact

Flush skin with large amounts of water. If irritation develops and persists, get medical attention.

4.1.4 Eye contact

Rinse immediately with plenty of water, also under the eyelids. Get medical attention immediately if irritation develops and persists.

4.1.5 Ingestion

Rinse mouth. If large quantities of this material are swallowed, call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Nausea. Vomiting. Causes mild skin and eye irritation. Irritation of mucous membranes. Vertigo.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically.

5. FIREFIGHTING MEASURES

Not combustible.

5.1 Extinguishing media**5.1.1 Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Burning produces irritant fumes.

5.3 Advice for firefighters

Personal protection through wearing a tightly closed chemical protection suit and a self-contained breathing apparatus.

5.4 Specific methods

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Ensure adequate ventilation. Wear personal protective equipment.

6.2 Environmental precautions

Do not allow material to contaminate ground water system.

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**

Avoid contact with skin, eyes and clothing. Avoid breathing vapours, mist or gas.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store at room temperature.

7.3 Specific end use(s)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****8.1.1 Threshold limits**

10361-37-2	Bariumchloride	0,5 mg/m ³ (8 h)
		Ba

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.

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.

8.2.2.4 Skin protection

Lab coat

8.2.3 Environmental exposure controls

Do not let product enter drains.

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

Liquid.

9.1.2 Odour

odourless

9.1.3 Odour threshold

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9.1.4 pH

no data available

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

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9.1.8 Evaporation rate

no data available

9.1.9 Flammability (solid, gas)

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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

no data available

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9.1.14	Solubility(ies)	
9.1.14.1	Water solubility	completely soluble
9.1.15	Partition coefficient: n-octanol/water	no data available
9.1.16	Auto-ignition temperature	-
9.1.17	Decomposition temperature	no data available
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**
No information available.
- 10.2 Chemical stability**
The product is chemically stable.
- 10.3 Possibility of hazardous reactions**
No information available.
- 10.4 Conditions to avoid**
Decomposes on heating.
- 10.5 Incompatible materials**
Acids. Oxidizing agents (strong). Reducing agents.
- 10.6 Hazardous decomposition products**
Ammonia gas may be liberated at high temperatures. Gaseous hydrogen chloride (HCl).

11. TOXICOLOGICAL INFORMATION

- 11.1 Information on toxicological effects**
Harmful if swallowed.
- 11.1.2 Irritation and corrosion**
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- 11.1.3 Sensitisation**
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- 11.1.4 Subacute, subchronic and prolonged toxicity**
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- 11.1.5 STOT-single exposure**
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- 11.1.6 STOT-repeated exposure**
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- 11.1.7 Aspiration hazard**
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- 11.1.8 Other information on acute toxicity**
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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
- 12.1.1 Aquatic toxicity**
The substance or mixture is not classified.

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12.2 Persistence and degradability**12.2.1 Biodegradation**

The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

Highly mobile in soils.

12.5 Results of PBT and vPvB assessment

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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

14. TRANSPORT INFORMATION

	Land transport ADR/RID	Sea transport IMDG/IMO	Air transport ICAO/IATA
14.1 UN number			
14.2 UN proper shipping name			
14.3 Transport hazard class(es)			
14.4 Packing group			
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**

Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP).

WEL substance.

15.2 Chemical safety assessment

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16. OTHER INFORMATION**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

R22 Harmful if swallowed.

16.6 Training advice

Provide adequate information, instruction and training for operators.

16.7 Recommended restrictions

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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.