

BARIUM CHLORIDE 20 w/v-%

Date 21.11.2011

Previous date: -

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****1.1.1 Commercial Product Name**
BARIUM CHLORIDE 20 w/v-%**1.1.2 Product code**
FF274 1 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

P270

Do not eat, drink or smoke when using this product.

P301+P312

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P330

Rinse mouth.

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

10326-27-9

Chemical name of the substance

Barium chloride

Concentration Classification

20%

T ;R25, Xn ;R25

Acute. Tox 3; H301. Acute. Tox. 4;H332

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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

Rinse with water.

4.1.4 Eye contact

Immediately flush eye(s) with plenty of water.

4.1.5 Ingestion

Information refers to the main component.

If ingested, irrigate the stomach using activated charcoal in addition. Drink 1 or 2 glasses of water. Prevent vomiting if possible. Do not give milk, alcoholic beverages or castor oil.

Keep respiratory tract clear. Call a physician. Show this safety data sheet to the doctor in attendance.

laksatiivi: Natriumsulfaatti

4.2 Most important symptoms and effects, both acute and delayed

Information refers to the main component.

Irritation and corrosion, Difficulty in breathing, Cough, Ingestion may cause irritation to mucous membranes.

Cardiac irregularities Increased pulse rate

Acute intoxication by inhalation or ingestion of water soluble barium salts causes vomiting, diarrhoea, convulsive tremors and muscular paralysis.

4.3 Indication of immediate medical attention and special treatment needed**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

Information not available

5.2 Special hazards arising from the substance or mixture

Not combustible. Fire may cause evolution of: Kloorivetykaasu.

5.3 Advice for firefighters

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

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures****6.2 Environmental precautions**

Do not allow material to contaminate ground water system.

6.3 Methods and materials for containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

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Avoid inhalation, ingestion and contact with skin and eyes.
Use only with adequate ventilation.

- 7.2 Conditions for safe storage, including any incompatibilities**
Keep tightly closed. Store at room temperature in the original container.
- 7.3 Specific end use(s)**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
- 8.1.1 Threshold limits**
10326-27-9 Barium chloride 0,5 mg/m³ (8 h)
Ba
- 8.2 Exposure controls**
- 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**
Goggles
- 8.2.2.4 Skin protection**
Lab coat
- 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
- 9.1.2 Odour** odourless
- 9.1.4 pH** no data available
- 9.1.7 Flash point** no data available
- 9.1.14 Solubility(ies)**
- 9.1.14.1 Water solubility** Information refers to the main component. 375 g/l
- 9.1.16 Auto-ignition temperature** no data available
- 9.1.19 Explosive properties** no data available
- 9.1.20 Oxidising properties** no data available
- 9.2 Other information**

10. STABILITY AND REACTIVITY

- 10.1 Reactivity**
No data is available on the product itself.
- 10.2 Chemical stability**
No data is available on the product itself.
- 10.3 Possibility of hazardous reactions**

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No data is available on the product itself. Information refers to the main component.

Risk of explosion. Reacts with the following substances: FURAN-2-CARBOXYL ACID

Reactivity Hazard: Strong oxidizing agents, Strong reducing agents, Acids

10.4 Conditions to avoid

Information not available

10.5 Incompatible materials

Information not available

10.6 Hazardous decomposition products**11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

No data is available on the product itself. Information refers to the main component.

11.1.1 Acute toxicity

LD50/oral/rat = 118 mg/kg

11.1.2 Irritation and corrosion

Irritation of mucous membranes, Cough, Shortness of breath

11.1.5 STOT-single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

11.1.6 STOT-repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

11.1.7 Aspiration hazard

Based on available data, the classification criteria are not met.

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

No data is available on the product itself. Information refers to the main component.

LC50/48h/golden orfe = 870 mg/l

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

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment**12.6 Other adverse effects****13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of as unused product.

13.2 Waste from residues / unused products

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

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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	Not classified as dangerous in the meaning of transport regulations.		

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**

Information refers to the main component.

Directive 96/82/EC applies

Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

15.2 Chemical safety assessment**16. OTHER INFORMATION****16.4 Classification procedure**

Output 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.

16.8 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.