



## SAFETY DATA SHEET

### 1. Identification of the substance / preparation and company.

#### 1.1 Product identifier

Product Nr. CL02.0201

Trade name Barium chloride 10% solution

REACH A registration number is not available for this substance as the substance or its use are  
Registration exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the  
Number annual tonnage does not require a registration or the registration is envisaged for a later  
registration deadline.

CAS-No. 10326-27-9

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Reagent for analysis

In compliance with the conditions described in the annex to this safety data sheet.

#### 1.3 Information provided by AnalytiChem Belgium NV product service.

Responsible department: AnalytiChem Belgium NV

Industriezone "De Arend" 2

B-8210 Zedelgem

BELGIUM

Tel. +32 50 28 83 20 e-mail: info.be@analytichem.com

#### 1.4 Emergency telephone: 00 (32) 50.28.83.20

### 2. Hazard identification

#### 2.1 Classification of the substance or the mixture (EG 1272/2008)

Acute toxicity, Oral, Categorie 4, H302

Eye irritation, Categorie 2, H319

For the full text of H-sentences mentioned in this Section, see Section 16

For the full text of R-sentences mentioned in this Section, see Section 16

#### 2.2 GHS-Labeling

GHS-Labeling Labelling (REGULATION (EC) No 1272/2008) (EG 1272/2008)

Hazard pictograms:



Signal word:

Warning :

Hazard statements:

H302

Harmful if swallowed.

H319

Causes serious eye irritation.

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.

Reduced labelling  
Hazard pictograms:



Signal word:  
Warning :

Hazard statements:  
H301 Toxic if swallowed.

Precautionary statements:  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

### **3. Composition / Information on ingredients.**

#### **3.1 Substance**

Not applicable

#### **3.2 Mixture**

Hazardous Ingredients:  
Name according to EC directives:

Component	Cas-No.	Concentration	Classification (REGULATION (EC) No 1272/2008)
Barium chloride.2aq a.r.	10326-27-9	≥10%-<15%	Acute Tox. (inhal.) 4 (H332) Acute Tox. (oral) 3 (H301)

Component	Reach Number
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For the full text of H-Phrases mentioned in this Section, see Section 16.

### **4. First aid measures.**

#### **4.1 Description of first aid measures**

##### **General advice**

First-aid personnel: ensure self-protection!

After inhalation: Remove to fresh air, seek medical advice.

After contact with skin: Wash off with plenty of water. Remove contaminated clothing.

After contact with eyes: Rinse out with plenty of water with the eyelid held wide open.

After ingestion: Never give anything by mouth to an unconscious person. Immediately make victim drink water (two glasses at most). Call in physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in

### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

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## **5. Fire fighting measures.**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

In adaption to materials stored in the immediate neighbourhood.

#### **Unsuitable extinguishing media**

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

### **5.2 Special hazards arising from substance or mixture**

Non-combustible. Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus.

### **5.4 Further information**

No data available

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## **6. Accidental release measures.**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not allow to enter sewerage system.

### **6.3 Methods and materials for containment and cleaning up**

Absorb on vermiculite, sand or a pillow from Chemical Spill Center.

### **6.4 Reference to other sections**

For disposal see section 13.

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## **7. Handling and storage.**

### **7.1 Precautions for safe handling**

No special measures necessary. The product should be handled with the care usual when dealing with chemicals.

For precautions see section 2.2

### **7.2 Conditions for safe storage, including any incompatibilities**

Tightly closed.

Recommended storage temperature see product label.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **8. Exposure controls - Personal protection.**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Engineering measures**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

See section 7.1

#### **Individual protection measures**

Immediately change contaminated clothing. Wash hands after working with substance.

#### **Respiratory protections**

Required when vapours/aerosols are generated.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Eye protection**

Required.

#### **Hand protection**

Required.

#### **Body protection**

Not required.

#### **Environmental exposure controls**

Do not allow to enter sewerage system.

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### **9. Physical and chemical properties.**

#### **9.1 Information on basic physical**

##### Appearance

Form:	Liquid
Colour:	Colourless
Odour:	Odourless

##### Changes in physical state

Melting Point:	0°C
Boiling point:	100°C
Flash point:	-
Self Ignation temperature:	-
Mol. Weight:	244.28 g/mol
Density:	1,07 g/ml
pH value:	-
Solubility in water:	soluble
Explosion limits:	

#### **9.2 Other data**

No further relevant information available.

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### **10. Stability and reactivity.**

#### **10.1 Reactivity**

See section 10.3

#### **10.2 Chemical stability**

No further relevant information available.

#### **10.3 Possibility of hazardous reactions**

Dangerous reactions are not expected handling the product according to its intended use.

#### **10.4 Conditions to avoid**

No further relevant information available.

### **10.5 Incompatible materials**

No further relevant information available.

### **10.6 Hazardous decomposition products**

No further relevant information available.

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## **11. Toxicological information.**

### **11.1 Information on toxicological effects**

Acute oral toxicity

Acute inhalation toxicity

No further relevant information available.

Acute dermal toxicity

No further relevant information available.

Skin irritation

No further relevant information available.

Eye irritation

No further relevant information available.

Sensitisation

No further relevant information available.

Germ cell mutagenicity

No further relevant information available.

Carcinogenicity

No further relevant information available.

Reproductive toxicity

No further relevant information available.

Teratogenicity

No further relevant information available.

Specific target organ toxicity - single exposure

No further relevant information available.

Specific target organ toxicity - repeated exposure

No further relevant information available.

Aspiration hazard

No further relevant information available.

### **11.2 Further information**

No further relevant information available.

Further data:

Handle in accordance with good industrial hygiene and safety practice..

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## **12. Ecological information.**

### **12.1 Toxicity**

No further relevant information available.

### **12.2 Persistence and degradability**

No further relevant information available.

### **12.3 Bioaccumulative potential**

No further relevant information available.

#### 12.4 Mobility in soil

No further relevant information available.

#### 12.5 Results of PBT and vPvB assessment

No further relevant information available.

#### 12.6 Other adverse effects

Do not allow to enter waters, waste water, or soil!

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### 13. Disposal considerations.

Product: Chemicals must be disposed of in compliance with the respective national regulations. Packaging: Chem-lab product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

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### 14. Transport information.

#### Land Transport (ADR/RID)

14.1 UN number	UN 3287 Toxic liquid, inorganic, n.o.s. (Barium chloride solution)
14.2 Proper shipping name	
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	-
14.6 Special precautions for user	yes (E)
Tunnel restriction code	

#### Inland waterway transport (ADN)

Not relevant

#### Air Transport (IATA)

14.1 UN number	UN 3287 Toxic liquid, inorganic, n.o.s. (Barium chloride solution)
14.2 Proper shipping name	
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	-
14.6 Special precautions for user	yes

#### Sea Transport (IMDG)

14.1 UN number	UN 3287 Toxic liquid, inorganic, n.o.s. (Barium chloride solution)
14.2 Proper shipping name	
14.3 Class	6.1
14.4 Packing group	III
14.5 Environmentally hazardous	-
14.6 Special precautions for user	yes

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant

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### 15. Regulatory information.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

For this product an assessment was not carried out.

#### 15.2 Chemical Safety Assessment

For this product an assessment was not carried out.

## **16. Other information.**

The information and recommendations in this MSDS are to the best of our knowledge, information and belief accurate at the date of publications. Although utmost care has been taken in the composition of this text, the publisher cannot be held responsible for any damage resulting from any possible error in this publications.

Full text of H-Statements referred to under sections 2 and 3.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.