		Page		
Safety data sheet according to 1907/2006/EC, Article 31				
nting date 03.09.2021		Revision: 03.09.20		
SECTION 1: Identification o	f the substance/mixture	and of the company/undertaking		
· 1.1 Product identifier				
• Trade name: <u>Barium hydroxide, an</u>	nhydrous, min. 95%			
<ul> <li>Item number: 93-5616</li> <li>CAS Number: 17194-00-2</li> <li>EC number: 241-234-5</li> <li>I.2 Relevant identified uses of the s No further relevant information ava</li> </ul>		es advised against		
• 1.3 Details of the supplier of the say • Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com	fety data sheet			
• Further information obtainable fro • 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: + 1 ( During normal opening times: +1 (	(800) 424-9300			
	76 / f			
<b>SECTION 2: Hazards identif</b>	ication			

GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage.

GHS07

CHEMICALS.

Acute Tox. 4 H302 Harmful if swallowed.

 2.2 Label elements
 Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
 Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling:

barium hydroxide

• Hazard statements H302 Harmful if swallowed.

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Trade name: Barium hydroxide, anhydrous, min. 95%

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H314 Causes se	evere skin burns and eye damage.
· Precautionary s	statements
P101	<i>If medical advice is needed, have product container or label at hand.</i>
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe dusts or mists.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
<i>P303</i> + <i>P361</i> + <i>P</i> .	353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<i>P305+P351+P</i> .	338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
2.3 Other hazar	rds
· Results of PBT	and vPvB assessment

• *PBT*: Not applicable.

• **vPvB:** Not applicable.

### **SECTION 3: Composition/information on ingredients**

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 17194-00-2 barium hydroxide
- · Identification number(s)
- EC number: 241-234-5

#### **SECTION 4: First aid measures**

• 4.1 Description of first aid measures

General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing:

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

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#### Trade name: Barium hydroxide, anhydrous, min. 95%

- · 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

#### **SECTION 6:** Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up: Use neutralising agent.

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

### **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Thorough dedusting.
- *Ensure good ventilation/exhaustion at the workplace.*
- · Information about fire and explosion protection: Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

· Additional information about design of technical facilities: No further data; see item 7.

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

17194-00-2 barium hydroxide

WEL Long-term value: 0.5 mg/m<sup>3</sup>

as Ba

• *Additional information:* The lists valid during the making were used as basis.

· 8.2 Exposure controls

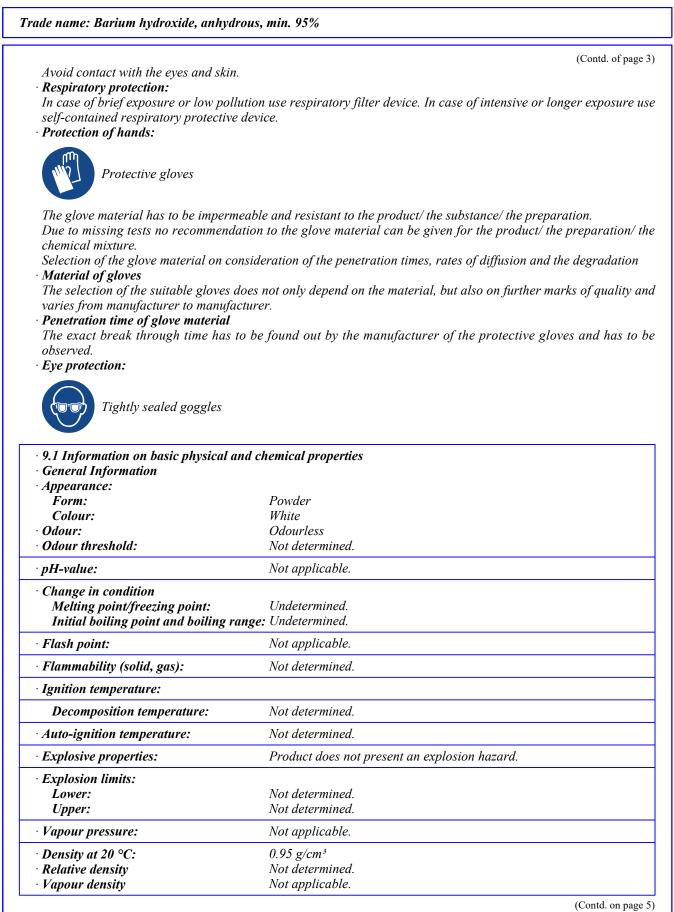
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes.

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· Evaporation rate	Not applicable.	
· Solubility in / Miscibility with		
water:	Insoluble.	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
Solvent content:		
Organic solvents:	0.0 %	
VÕC (EC)	0.00 %	
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

# SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 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 dangerous decomposition products known.

# **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- Serious eye damage/irritation
- Causes serious eye damage.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- Aquatic 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.

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#### Trade name: Barium hydroxide, anhydrous, min. 95%

- · 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
- · 12.5 Results of PBT and vPvB assessment

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• 12.6 Other adverse effects No further relevant information available.

#### **SECTION 13: Disposal considerations**

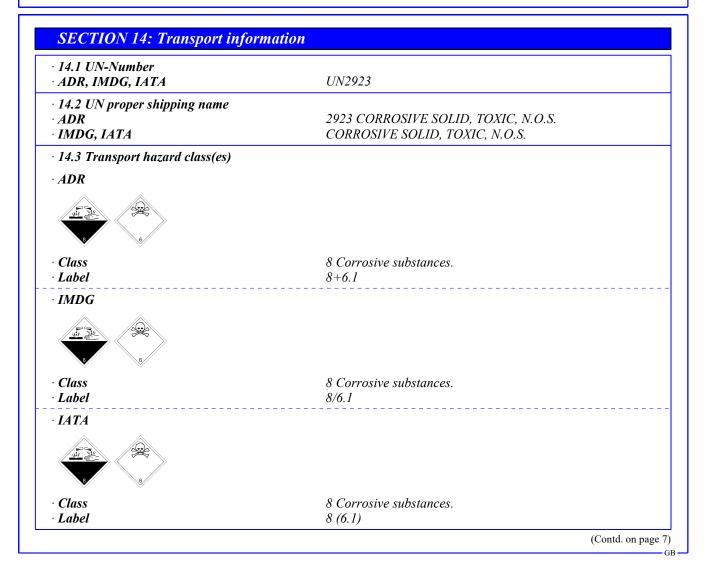
· 13.1 Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

• Uncleaned packaging:

• *Recommendation:* Disposal must be made according to official regulations.





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14.4 Packing group		
ADR, IMDĞ, IATA	II	
14.5 Environmental hazards:		
Marine pollutant:	No	
14.6 Special precautions for user	Warning: Corrosive substances.	
EMS Number:	F-A,S-B	
Stowage Category	В	
Stowage Code	SW2 Clear of living quarters.	
14.7 Transport in bulk according to Anne	ex II of	
Marpol and the IBC Code	Not applicable.	
Transport/Additional information:		
ADR		
Limited quantities (LQ)	l kg	
Excepted quantities $(\widetilde{E}Q)$	Code: E2	
· · · · · · · · · · · · · · · · · · ·	Maximum net quantity per inner packaging: 30 g	
	Maximum net quantity per outer packaging: 500 g	
UN "Model Regulation":	UN 2923 CORROSIVE SOLID, TOXIC, N.O.S., 8 (6.1), II	

#### **SECTION 15: Regulatory information**

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

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director

#### • Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

- Skin Corr. 1B: Skin corrosion/irritation Category 1B
- Eye Dam. 1: Serious eye damage/eye irritation Category 1