Scientific Laboratory Supplies - Safety Data Sheet

CHE1264

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021 Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE1264

Product Name BARIUM HYDROXIDE 8H2O pure 500g.

CAS Number 12230-71-6

REACH Registration No 01-2119495571-31-XXXX

Molecular Formula

Ba(OH)₂ .8H₂ O =315.47

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

1.4 Emergency Telephone (08:00-17:00) 0115 9821111

(24hr) 112

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1B

Acute toxicity, category 4 (oral)

Acute toxicity, category 4 (inhalation)

H302: Harmful if swallowed.

H332: Harmful if inhaled.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled.

POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Barium compounds (as Ba)	12230-71-		01-2119495571-31-XXXX	<100%	Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (I)	
	6					

Section 4. First Aid

4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use.

OBTAIN MEDICAL ATTENTION URGENTLY.

Remove from exposure. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY. Inhalation

Wash out the patients mouth thoroughly with water. If conscious give plenty of water to drink. Do not induce Ingestion

vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

4.2 Most important symptoms and effects, both acute & 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. Fire Fighting

5.1 Extinguishing media

Consider what other flammable materials are present and act accordingly. Extinguishing Media

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to enter area. Do not

allow general use of area until it is safe to do so.

6.2 Environmental precautions

Enviromental Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

6.3 Methods and material for containment and cleaning up

Major Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water. Minor Spillage Shovel/sweep up into container for removal Wash area down with copious amounts of water.

6.4 Reference to other sections

Section 7. Storage & Handling

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.

7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

Component	CAS No	Concentration	Workplace Exposure Limits					
			Long Term (8hr TWA)		Short Term	Short Term 15min period)		
Barium compounds (as Ba)	12230-71-6	<100%	-	-	-	-		

No occupational exposure data currently available. Exposure data source(s)

8.2 Exposure controls

Respiratory Protection Use approved respiratory protection.

Wear PVC gloves. Hand Protection

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Wear PVC oversuit.

Special Hazards No special precautions required.

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

White crystalline powder or granules. Appearance

No specific odour. pН 13 @ 20°C **Boiling Point** Not available Melting Point 380°C Flash Point Not applicable Upper Flammable Limit Not applicable Lower Flammable Limit Not applicable Auto Ignition Not applicable **Explosive Properties** No. Oxidising Properties No. Vapour Pressure Not applicable

2.1800 Relative Density Water Solubility 5.6%

9.2 Other information

Odour

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

Scientific Laboratory Supplies - Safety Data Sheet Ref: CHE1264 **10.3** Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid

Avoid exposure to heat.

10.5 Incompatable Materials

No specific materials to avoid. Will react with atmospheric carbon dioxide to produce the carbonate.

10.6 Hazardous Decomposition

Products

Not specified.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Severe eye irritant. Risk of irreversible damage to eyes.

Skin The powder may be an irritant on brief or occasional exposure.

LD50 Skin Not available

Ingestion Corrosive injury to tissues contacted. Muscle weakness, and possible severe internal injuries. Arrhythmias

(deviation from normal heartbeat.) Severe abdominal pain, ringing in the ears and hypertension. Severe cases may

result in death.

LD50 Oral Not available

Inhalation Inhalation of dust may seriously damage the membranes lining the nose, throat and upper respiratory tract.

LD50 Inhalation Not available TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Section 12. Ecological

12.1 Toxicity Marine and/or freshwater pollutant. Do not allow to enter drinking water supplies. The following applies to

Barium Compounds: biological effects; Fish, lethal from 158mg/l. Salmon lethal from 158mg/l. L.Idus LC50: 870mg/l [both as BaCl2]. Barium ions are toxic for aquatic organisms: algae: Sc. quadricauda toxic from 34mg/l:

Crustaceans toxic from 29mg/l.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential No data available.12.4 Mobility in soil No data available.

12.5 Results of PBT & vPvB

assessment

Assessment not required.

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Do not dispose of as domestic waste.

Contaminated Packaging Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and

national regulations.

Section 14. Transport Information

14.1 UN Number 3262

14.2 Proper Shipping Name Corrosive solid, basic, inorganic, N.O.S.

(Barium Hydroxide Octahydrate)

14.3 Transport classes

UN classification 8 Subsidiary hazard(s) None 3 Transport category ADR Hazard ID 80 **Tunnel Restriction Code** Ε 14.4 Packing Group Ш

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



Section 15. Regulatory Information

15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1B; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (inhalation)

Signal word Danger

Hazard Pictograms





Hazard Statements H302, H314, H332

Harmful if swallowed. Causes severe skin burns and eye damage. Harmful if inhaled.

Precautionary Statements P264, P270, P301+P312, P330

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a

POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

15.2 Chemical safety assessment

Assessment not required.

Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

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