

Camlab Limited – Material Safety Data Sheet

1. Identification

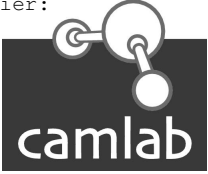
Product Code CC/1672-CO

Product Name **BARIUM HYDROXIDE 8H₂O pure**

Molecular Formula **Ba(OH)₂·8H₂O =315.47**

CAS Number **12230-71-6**

Supplier: **CAMLAB LIMITED**
Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE



Phone **01954 233110**

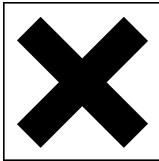
Fax **01954 233101**

Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Barium compounds (as Ba)	12230-71-6		<100.0%	Xn : R20/22	N/A

3. Hazards Identification



Harmful by inhalation and if swallowed.

4. 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.

Inhalation 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.

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

5. Fire Fighting Measures

Hazards May evolve toxic fumes if involved in a fire.

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

Unsuitable Media Nothing specified.

6. Accidental Release Measures

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. Accidental Release Measures (continued)

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

7. Storage & Handling

Handling Precautions	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.
Storage Conditions	Well ventilated, cool, dry storage .

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	Use approved respiratory protection.
Hands	Wear PVC gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance	White crystalline powder or granules.
Odour	No specific odour.
pH	13 (40g/l)
Boiling point	Not available
Melting point	380.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	Not available
Relative Density	2.1800 °C
Water Solubility	5.6%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid exposure to heat.
Materials to Avoid	No specific materials to avoid. Will react with atmospheric carbon dioxide to produce the carbonate.
Hazardous Decomposition Products	Not specified.

11. Toxicological Information

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

11. Toxicological Information (continued)

Ingest	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 Ingest	Not available
Inhalation	Inhalation of dust may seriously damage the membranes lining the nose, throat and upper respiratory tract.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.

12. Ecological

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.

13. Disposal Considerations


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.

14. Transport Information

Proper Shipping Name	Barium Compound, N.O.S.
UN Number	1564
UN Classification	6.1 Toxic
Subsidiary Risk	None
Flash Point	Not available
Packing Group	III
Transport Category	2
Marine pollutant	No
ADR Hazard ID	60



15. Regulatory Information

Labelling	Harmful.
Classification	
Label Symbols	Xn 
Risk & safety Phrases	Harmful by inhalation and if swallowed. Keep out of reach of children. After contact with skin, wash immediately with plenty of water.
EEC Number	Not available

16. Other Information

Document Information	This document has been prepared in accordance with directive 88/379/EEC. The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.
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16. Other Information (continued)

Revision Date: 16/02/06.

Data reviewed and PDF file generated: 17/03/10.

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