Camlab Limited - Material Safety Data Sheet

1. Identification

CC/1931-CO Product Code

BARIUM CHLORIDE 2H2O A.R. Product Name

 $BaCl_2.2H_2O = 244.27$ Molecular Formula

10326-27-9 CAS Number

Supplier:



CAMLAB LIMITED

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> 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)	10326-27-9	233-788-1	56.2%	T : R20,R25	WEL

3. Hazards Identification



Harmful by inhalation. Toxic if swallowed.

4. First Aid Measures

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

If discomfort persists OBTAIN MEDICAL ATTENTION.

Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash Skin

before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

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.

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

Ingestion

Media

Consider what other flammable materials are present and act accordingly.

Unsuitable

Nothing specified.

Media

6. Accidental Release Measures

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

enter area. Do not allow general use of area until it is safe to do so.

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

occurs.

6. Accidental Release Measures (continued)

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

Component	CAS No Workplace Exposure Limits		sure Limits	Maximum Exposure Limits	
		Long Term	Short Term	Long Term	Short Term
		ppm mg m-3	ppm mg m-3	ppm mg m–3	ppm mg m–3
Barium compounds (as Ba)	10326-27-9	- 0.5000			

8.2 Personal Protection

Respiratory If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hands Wear gloves.

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

9. Physical & Chemical Properties

Appearance White crystalline powder or granules.

Odour No specific odour. pH 7 (10% solution)

Boiling point 1560.0 °C
Melting point 960.0 °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 Presure Not available Relative Density 3.8560 °C Water Solubility 36%

10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid No specific conditions.

Materials to Avoid No specific materials to avoid.

Hazardous May produce hazardous fumes if involved in a fire.

Decomposition Products

11. Toxicological Information

Eyes Contact with the solid or dust will be irritating to the eyes.

Skin Contact with the solid or dust will be irritating to the skin. Chronic exposure may lead to

dermatitis.

LD50 Skin Not available

11. Toxicological Information (continued)

Ingest Toxic if swallowed. May cause damage to central nervous system and kidneys. Soluble barium

salts are rapidly absorbed from the G.I. tract and are very toxic orally. Symptoms include muscular stimulation and central nervous system effects. Fatal dose in humans is reported to be 0.8-0.99 but much larger amounts have been tolerated. Classed as an S1 poison.

LD50 Ingest Human LD1o:80mg/Kg

Inhalation Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract.

Inhalation of the dust can result in symptoms similar to those due to ingestion.

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 Wash out containers with water.

14. Transport Information

Proper Shipping Name Barium compounds 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 Toxic.

Classification

Label Symbols



Risk & safety Phrases Harmful by inhalation. Toxic if swallowed. Keep locked up and out of reach of children. In

case of accident or if you feel unwell, seek medical advice immediately (show the label).

EEC Number 233-788-1

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.

16. Other Information (continued)

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