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Material Safety Data Sheet Barium Hydroxide Anhydrous

ACC# 02420

Section 1 - Chemical Product and Company Identification

MSDS Name: Barium Hydroxide Anhydrous
Catalog Numbers: B46 250, B46250, B47 250, B47 500, B47-250, B47-500, B47250, B47500
Synonyms: Barium hydrate, barium anhydrous
Company Identification:
 Fisher Scientific
 1 Reagent Lane
 Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EIP
17194-00-2	Barium hydroxide anhydrous	100	

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: colourless. **Danger!** Corrosive. May cause kidney damage. May cause nervous system effects. Causes eye and skin burns. Causes digestive and respi

burns.

Target Organs: Kidneys, central nervous system.

Potential Health Effects

Eye: Contact with liquid or vapor causes severe burns and possible irreversible eye damage. V: eye irritation.

Skin: May cause severe skin irritation. Causes skin burns.

Ingestion: May be fatal if swallowed. Causes gastrointestinal tract burns. May cause respiratory severe pain, nausea, vomiting, diarrhea, and shock. May cause kidney failure.

Inhalation: May cause severe irritation of the upper respiratory tract with pain, burns, and inflar

Chronic: Chronic inhalation and ingestion may cause effects similar to those of acute inhalator

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and l medical aid immediately.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminate shoes. Get medical aid if irritation develops or persists.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or v medical aid immediately.

Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Treat symptomatically and supportively.

Antidote: The use of d-Penicillamine as a chelating agent should be determined by qualified m

Section 5 - Firefighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-den MSHA/NIOSH (approved or equivalent), and full protective gear. Use extinguishing media appro surrounding fire. Substance is nonflammable.

Extinguishing Media: Substance is nonflammable; use agent most appropriate to extinguish s

Autoignition Temperature: Not available.

Flash Point: Not available.(estimated) Health: ; Flammability: ; Reactivity: Explosion Limits, Low Upper: Not available.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemi container. Vacuum or sweep up material and place into a suitable disposal container. Avoid ger conditions.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before re well ventilated area. Do not get on skin or in eyes. Do not ingest or inhale.

Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep av

acids.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Use adequate general or local exhaust ventilation to keep airborne concentration below the permissible exposure limits.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA
Barium hydroxide anhydrous	none listed	none listed	nc

OSHA Vacated PELs: Barium hydroxide anhydrous: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Appearance: colourless

Odor: odorless

pH: Alkaline

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate:

Viscosity: Not applicable.

Boiling Point: 1436 deg F

Freezing/Melting Point: 172.4 deg F

Decomposition Temperature: Not available.

Solubility: Moderately in water (5.6g/100cc).

Specific Gravity/Density: 2.18 (Water=1)

Molecular Formula: Ba(OH)₂

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and conditions.

Conditions to Avoid: None reported.

Incompatibilities with Other Materials: Acids.

Hazardous Decomposition Products: None.

Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 17194-00-2: CQ9200000
LD50/LC50:
 Not available.

Carcinogenicity:
CAS# 17194-00-2:
ACGIH: A4 - Not Classifiable as a Human Carcinogen (listed as BARIUM).
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.
Other Studies: None.

Section 12 - Ecological Information

Ecotoxicity: No information available.
Environmental Fate: No information reported.
Physical/Chemical: No information available.
Other: None.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.
RCRA D-Series Maximum Concentration of Contaminants: None listed.
RCRA D-Series Chronic Toxicity Reference Levels: None listed.
RCRA F-Series: None listed.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

Section 14 - Transport Information

	US DOT	IATA	RID/ADR	IM
Shipping Name:	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S (BARIUM HYDROXIDE)	No information available.	No information available.	No infor available. CO SOLIDS (BAR HYDRO
Hazard Class:	8			8(9.
UN Number:	UN3262			UN1'
Packing Group:	II			II

Section 15 - Regulatory Information**US FEDERAL****TSCA**

CAS# 17194-00-2 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA**Section 302 (RQ)**

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 17194-00-2: acute, chronic.

Section 313

This material contains Barium hydroxide anhydrous (listed as BARIUM), 100%, (CAS# 17194-00-2) subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. Nor are chemicals in this product listed as Priority Pollutants under the CWA. None of the chemicals are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 17194-00-2 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations**European Labeling in Accordance with EC Directives****Hazard Symbols:**

Not available.

Risk Phrases:**Safety Phrases:****WGK (Water Danger/Protection)**

CAS# 17194-00-2: 1

Canada

CAS# 17194-00-2 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of E, D1A, D2B.

CAS# 17194-00-2 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 17194-00-2 (listed as barium): OEL-AUSTRALIA:TWA 0.5 mg/m3 OEL-AUSTRIA:TWA 0.5 mg/m3 OEL-BELGIUM:TWA 0.5 mg/m3 OEL-DENMARK:TWA 0.5 mg/m3 OEL-FINLAND:TWA 0.5 mg/m3 OEL-GERMANY:TWA 0.5 mg/m3 (total dust) OEL-HUNGARY:STEL 0.5 mg/m3 OEL-THE NETHERLANDS:TWA 0.5 mg/m3 OEL-THE PHILIPPINES:TWA 0.5 mg/m3 OEL-POLAND:TWA 0.5 mg/m3;STEL 1.5 mg/m3


OEL-SWITZERLAND:TWA 0.5 mg/m³;STEL 1 mg/m³ OEL-TURKEY:TWA 0.5 mg/m³
OEL-UNITED KINGDOM:TWA 0.5 mg/m³ OEL IN BULGARIA, COLOMBIA, JORDAN,
KOREA check ACGIH TLV OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check A
CGI TLV

Section 16 - Additional Information

MSDS Creation Date: 12/19/1994

Revision #7 Date: 12/12/1997

The information above is believed to be accurate and represents the best information currently available to us. However, of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability. Users should make their own investigations to determine the suitability of the information for their particular purposes. In liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

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