



Barium Phosphate Dibasic		Pricing >
Linear Formula	BaHPO ₄	
Pubchem CID	6096957	
MDL Number	MFCD00003451	
EC No.	33-159-1	
IUPAC Name	barium(2+); hydrogen phosphate	
Beilstein/Reaxys No.	N/A	
SMILES	OP(=O)([O-])[O-].[Ba+2]	
Inchl Identifier	InChI=1S/Ba.H3O4P/c;1-5(2,3)4/h;(H3,1,2,3,4)/q+2;/p-2	
Inchl Key	LYSTYSFIGYAXTG-UHFFFAOYSA-L	
Signal Word	Warning	
Hazard Statements	H302 + H332	
Hazard Codes	Xn, T	
Risk Codes	20/22	
Safety Statements	28	
RTECS Number	N/A	
Transport Information	UN 1564 6.1 / PGIII	
WGK Germany	2	
GHS Pictograms	GHS07 Exclamation Point  GHS06 Skull and Crossbones 	

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SAFETY DATA SHEET

Date Accessed: 04/30/2024

Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #10048-98-3

Relevant identified uses of the substance:
Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
Domestic, North America +1 800-424-9300
International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE



Pictogram
Signal Word Warning
Hazard Statements
H302 Harmful if swallowed.
H332 Harmful if inhaled.
Precautionary Phrases
P261 Avoid breathing
dust/fume/gas/mist/vapors/spray.
P264 Wash skin thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air
and keep comfortable for breathing.
P301+P312 IF SWALLOWED: Call a POISON
CENTER/doctor if you feel unwell.
HMIS CLASSIFICATION:
Health: 2 Chronic: * Fire: 0 Reactivity Hazard: 0
NFPA RATING:
Health: 2 Flammability: 0 Reactivity Hazard: 0
EYE CONTACT: May be a mild irritant to the eyes.
SKIN CONTACT: May cause slight irritation of the
skin.
INHALATION: Inhalation of dust can lead to irritation
of the respiratory tract.
INGESTION: May be irritating if inhaled.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: BaHPO₄

Molecular Weight: 233.31

CHEMICAL NAME CAS# %

Barium Hydrogen Phosphate 10048-98-3 100

SECTION 4. FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water for at least 15 minutes.

Assure flushing under

eyelids. A victim may need assistance in keeping their eyelids open. Get immediate competent medical attention.

SKIN EXPOSURE: Wash affected area with water.

Remove contaminated clothes if necessary. Seek medical assistance if

irritation persists.

INHALATION: Remove to fresh air and keep at rest.

Closely monitor the victim for signs of respiratory problems, such as

difficulty in breathing, coughing, wheezing, or pain. In

such cases, seek immediate medical assistance.

INGESTION: Seek medical assistance immediately.

Keep the victim calm. Give the victim water (only if conscious). Induce

vomiting only if directed by medical personnel.

SECTION 5. FIREFIGHTING MEASURES

FLASH POINT: Product is not flammable

Autoignition: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use fire fighting measures that suit the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing,

including eye protection and boots.

HAZARDOUS COMBUSTION AND

DECOMPOSITION PRODUCTS: Phosphorus oxides and barium oxide

SECTION 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate

ventilation. Avoid the formation of dust. Avoid breathing vapors, mist, gas, or dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT

AND CLEANING UP: Pick up and arrange disposal without creating dust. Sweep up and keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wear appropriate personal protective equipment. Use with adequate ventilation. Avoid

contact with skin and eyes. Avoid formation of dust.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store in a tightly sealed container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component Exposure Limits Basis Entity

Barium Hydrogen Phosphate 0.5 mg/m³ TWA OSHA

0.5 mg/m³ TWA ACGIH

TWA: Time Weighted Average over 8 hours of work.

EYE PROTECTION: Wear chemical safety glasses or goggles and face shield.

SKIN PROTECTION: Wear nitrile or rubber gloves, apron, or lab coat.

VENTILATION: Provide local exhaust, preferably mechanical.

RESPIRATOR: Use an approved respirator.

ADDITIONAL PROTECTION: Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White powder

ODOR: None

MOLECULAR WEIGHT: 233.31

BOILING POINT: Decomposes

MELTING POINT: 410°C

SPECIFIC GRAVITY: 4.165 gm/ml
VAPOR DENSITY: No data available
SOLUBILITY: Slightly soluble

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None.
INCOMPATIBILITY: Strong oxidizing agents
DECOMPOSITION PRODUCTS: Phosphorus oxides
and barium oxide

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: Not available
CARCINOGENIC EFFECTS: No components of this
product present at levels greater than or equal to
0.1% is identified a carcinogen.
MUTAGENIC EFFECTS: Not available
TETRATOGENIC EFFECTS: Not available
RTECS: Not available
To the best of our knowledge the toxicological effects
of this compound have not been fully investigated.

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Dispose of in according to local, state, and federal
regulations.

SECTION 14. TRANSPORT INFORMATION

DOT : UN1564 IATA: UN1564
Barium compounds, n.o.s. Barium compound, n.o.s.
(Barium Hydrogen Phosphate) (Barium Hydrogen
Phosphate)
CLASS 6.1 CLASS 6.1
PG III PG III
Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

SARA 302/304: Not listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Barium Hydrogen Phosphate

PENNSYLVANIA RIGHT TO KNOW: Barium

Hydrogen Phosphate

NEW JERSEY RIGHT TO KNOW: Barium Hydrogen Phosphate

CALIFORNIA PROP. 65: Not Listed

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.
