

Barium Thiocyanate Trihydrate		Pricing >
Linear Formula	Ba(SCN) ₂ • 3H ₂ O	
Pubchem CID	91886423	
MDL Number	N/A	
EC No.	N/A	
IUPAC Name	barium(2+); dithiocyanate; trihydrate	
SMILES	C(#N)[S-].C(#N)[S-].O.O.O.[Ba+2]	
Inchl Identifier	InChI=1S/2CHNS.Ba.3H2O/c2*2-1-3;;;;/h2*3H;;3*1H2/q;+2;;;/p-2	
Inchl Key	USVMWHWKIBOLMH-UHFFFAOYSA-L	
Signal Word	Warning	
Hazard Statements	H302-H312 -H332	
Hazard Codes	Xn	
Risk Codes	N/A	
Safety Statements	N/A	
Transport Information	UN1564 6.1/PG III	

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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 #68016-36-4

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

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word Warning

Hazard Statements

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

Precautionary Phrases

P261 Avoid breathing

dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

HMIS CLASSIFICATION:

Health: 1 Fire: 0 Reactivity Hazard: 1

NFPA RATING:

Health: 1 Flammability: 0 Reactivity Hazard: 1

EYE CONTACT: May be a moderate irritant to the eyes causing redness and pain.

SKIN CONTACT: May cause moderate irritation of the skin causing redness, swelling, and itching.

INHALATION: May cause difficulty in breathing, irritation of the respiratory tract, tightness of the muscles of the face and neck.

INGESTION: Soluble barium and thiocyanates may cause vomiting, irregular heartbeat, pain, disorientation, convulsions and cardiac arrest.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: $\text{Ba}(\text{SCN})_2 \cdot 3\text{H}_2\text{O}$

Molecular Weight: 253.50

CHEMICAL NAME CAS# %

Barium Thiocyanate Trihydrate 68016-36-4 100

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: N/A

Autoignition: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: Barium oxide, nitrogen oxides, hydrogen cyanides, and sulfur oxides

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 away from oxidizing agents, Do not store together with acids. Store in the dark away from water and moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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 solid

ODOR: None

MOLECULAR WEIGHT: 253.50

BOILING POINT: No data available

MELTING POINT: Not available

SPECIFIC GRAVITY: 2.286 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10. STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None

INCOMPATIBILITY: Oxidizing agents and active metals

DECOMPOSITION PRODUCTS: Barium oxide, nitrogen oxides, hydrogen cyanides, and sulfur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: No data 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 Thiocyanate Trihydrate) (Barium Thiocyanate Trihydrate)

CLASS 6.1 CLASS 6.1

PG III PG III

Marine Pollutant: No

SECTION 15. REGULATORY INFORMATION

TSCA: Not listed in the TSCA inventory

SARA (TITLE 313): Barium Thiocyanate Trihydrate

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.
