



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Barium Thiocyanate Trihydrate**

PRODUCT NUMBER: 1225

CAS NUMBER: 68016-36-4

### MANUFACTURER:

Prochem, Inc.  
826 Roosevelt Road  
Rockford, IL 61109

PHONE: 815-398-1788  
FAX: 815-398-1810  
TOLL FREE: 800-795-8788

IN CASE OF TRANSPORTATION EMERGENCY CONTACT CHEM-TREC: 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:** Not applicable

**AUTO IGNITION TEMPERATURE:** 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 AND 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

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

**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 DATA

**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 DATA

No data available

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

**DOT :** UN1564

Barium compounds, n.o.s.  
(Barium Thiocyanate Trihydrate)  
CLASS 6.1  
PG III

**IATA:** UN1564

Barium compound, n.o.s.  
(Barium Thiocyanate Trihydrate)  
CLASS 6.1  
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

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 11/14