



# SAFETY DATA SHEET

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## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cadmium Bromide, Anhydrous**

PRODUCT NUMBER: 1333

CAS NUMBER: 7789-42-6

SYNONYMS: Cadmium dibromide

### MANUFACTURER:

Prochem, Inc.  
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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

H302+H312+H332 Harmful if swallowed, in contact with skin, or if inhaled.

### Precautionary Phrases

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air keep comfortable for breathing.

### HMIS CLASSIFICATION:

Health: 2      Chronic: \*      Fire: 0      Reactivity Hazard: 1

### NFPA RATING:

Health: 2      Flammability: 0      Reactivity Hazard: 1

**EYE CONTACT:** May be a mild to severe irritation of the eyes.

**SKIN CONTACT:** May cause slight to mild irritation of the skin.

**INHALATION:** Inhalation of dust and fumes can lead to cough, headache, shortness of breath, chest pains, pulmonary edema, and death.

**INGESTION:** Ingestion may lead to sudden nausea, vomiting, bloody diarrhea, weakness, convulsions, and death.

## SECTION 2 HAZARDS IDENTIFICATION (Cont.)

**CHRONIC HEALTH EFFECTS:** Prolonged exposure to low concentrations of cadmium may result in kidney damage, anemia, pulmonary fibrosis, emphysema, perforation of the nasal spectrum, loss of smell, male reproductive effects, and an increased risk of cancer of the prostate, lungs, and liver.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: CdBr<sub>2</sub>

Molecular Weight: 272.22

CHEMICAL NAME	CAS#	%
Cadmium Bromide, Anhydrous	7789-42-6	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

**AUTO IGNITION TEMPERATURE:** 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:** Hydrogen bromide and cadmium oxide gas

## 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:** Absorb spill with inert materials. Sweep up and place in suitable container for proper 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 strong oxidizers.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

### EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Cadmium Bromide Anhydrous	0.01 mg/m <sup>3</sup>	TLV	ACGIH
	0.002 mg/m <sup>3</sup>	TLV	ACGIH

TLV: Threshold Limit Value over 8 hours of work.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

**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 to off-white solid

**ODOR:** None

**MOLECULAR WEIGHT:** 272.22

**BOILING POINT:** 853° C

**MELTING POINT:** 567° C

**SPECIFIC GRAVITY:** 5.192 gm/ml

**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS TO AVOID:** Contact with moisture

**INCOMPATIBILITY:** Water, moisture, and oxidizing agents.

**DECOMPOSITION PRODUCTS:** Hydrogen bromide gas and cadmium oxide

## SECTION 11 TOXICOLOGICAL DATA

**ACUTE TOXICITY:** LD50 Oral – rat – 322 mg/kg

**CARCINOGENIC EFFECTS:** Known to be a human carcinogen.

**MUTAGENIC EFFECTS:** Not available

**TETRATOGENIC EFFECTS:** Not available

**RTECS:** EU9935000

To the best of our knowledge the toxicological effects of this compound have not been fully investigated.

## SECTION 12 ECOLOGICAL DATA

Danger to drinking water if even extremely small quantities leak into the ground. May cause long lasting harmful effects to aquatic life.

## SECTION 13 DISPOSAL CONSIDERATIONS

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

## SECTION 14 TRANSPORTATION DATA

**DOT:** UN2570

Cadmium compounds  
(Cadmium bromide)

Class 6.1

PG III

**IATA:** UN2570

Cadmium compound  
(Cadmium bromide)

Class 6.1

PG III

Marine Pollutant: No

## **SECTION 15 REGULATORY INFORMATION**

**TSCA:** Listed in the TSCA inventory

**SARA 302/304:** Not listed

**SARA 311/312:** Acute health hazard, Chronic health hazard

**SARA (TITLE 313):** Cadmium bromide

**PENNSYLVANIA RIGHT TO KNOW:** Cadmium bromide

**NEW JERSEY RIGHT TO KNOW:** Cadmium bromide

**CALIFORNIA PROP. 65:** Cadmium bromide

## **SECTION 16 OTHER INFORMATION**

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**SDS DEPT.**