



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cadmium Bromide, Tetrahydrate**

PRODUCT NUMBER: 1332

CAS NUMBER: 13464-92-1

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. |
| H410 | Very toxic to aquatic life with long lasting effects. |

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 into the environment. |
| P280 | Wear protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P304+P340 | IF INHALED: Remove person to fresh air keep comfortable for breathing. |
| P363 | Wash contaminated clothing before reuse. |

HMIS CLASSIFICATION:

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

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: May cause irritation to eyes.

SKIN CONTACT: Harmful by skin absorption. May cause irritation to skin.

INHALATION: Toxic if inhaled. May cause irritation.

INGESTION: Harmful if swallowed.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{CdBr}_2 \cdot 4\text{H}_2\text{O}$

Molecular Weight: 344.28

| CHEMICAL NAME | CAS# | % |
|-------------------------------|------------|-----|
| Cadmium Bromide, Tetrahydrate | 13464-92-1 | 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: Product does not present an explosion hazard.

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 fume

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 Tetrahydrate | 0.0020 mg/m ³ | TLV | ACGIH |
| | 0.01 mg/m ³ | TLV | ACGIH |
| | 0.0002 mg/m ³ | TLV | ACGIH |

TLV: Threshold Limit Value 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 to off-white solid

ODOR: None

MOLECULAR WEIGHT: 344.28

BOILING POINT: No data available

MELTING POINT: 36° C

SPECIFIC GRAVITY: Not available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No data available

INCOMPATIBILITY: Strong oxidizing agents

DECOMPOSITION PRODUCTS: Hydrogen bromide gas and cadmium oxide fumes

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

Highly toxic to fish. Toxic for aquatic organisms.

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

PGIII

IATA: UN2570

Cadmium compound
(Cadmium bromide)

Class 6.1

PGIII

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

SECTION 15 REGULATORY INFORMATION (Cont.)

NEW JERSEY RIGHT TO KNOW: Cadmium bromide

CALIFORNIA PROP. 65: Cadmium bromide

SECTION 16 OTHER INFORMATION

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DATE PREPARED: 02/15

SDS DEPT.