



# SAFETY DATA SHEET

ProChemOnline.com



## SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Holmium (III) sulfate hydrate**

PRODUCT NUMBER: 1992-1

CAS NUMBER: 15622-40-9

### MANUFACTURER:

Prochem, Inc.  
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Rockford, IL 61109

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## SECTION 2 HAZARDS IDENTIFICATION

### CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

**Warning**

### Hazard Statements

|      |                                   |
|------|-----------------------------------|
| H315 | Causes skin irritation.           |
| H319 | Causes serious eye irritation.    |
| H335 | May cause respiratory irritation. |

### Precautionary Phrases

|                |   |
|----------------|---|
| P261           | Avoid breathing dust/fume/gas/mist/vapors/spray.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P304+P340      | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                                |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |

### HMIS CLASSIFICATION:

Health: 1      Fire: 0      Reactivity Hazard: 1

### NFPA RATING:

Health: 1      Flammability: 0      Reactivity Hazard: 1

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

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

**INHALATION:** Inhalation of dust can lead to irritation of the respiratory tract.

**INGESTION:** No information on the physiological effects of ingestion.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula:  $\text{Ho}_2(\text{SO}_4)_3 \cdot \text{XH}_2\text{O}$

Molecular Weight: 618.04 (anhy.)

| CHEMICAL NAME                 | CAS#       | %   |
|-------------------------------|------------|-----|
| Holmium (III) Sulfate hydrate | 15622-40-9 | 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 soap and plenty of 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 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:** Holmium oxides and sulfur 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:** Spills can be mixed with powdered sodium carbonate or ground limestone. Sweep up and place in suitable container for proper disposal.

## SECTION 7 HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Wear appropriate personal protective equipment. Avoid contact with skin and eyes. Use with adequate ventilation. Avoid formation of dusts and aerosols.

**CONDITIONS FOR SAFE STORAGE:** Store in cool, dry, and well-ventilated area. Store away from oxidizing agents, water, and moisture. Protect from humidity and water.

## SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**EXPOSURE CONTROLS:** Contains no substances with occupational exposure limit values.

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

**SKIN PROTECTION:** Wear nitrile or rubber gloves, and a complete suit protecting against chemicals.

**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:** No data available  
**ODOR THRESHOLD:** No data available  
**MOLECULAR WEIGHT:** 618.04 (anhy.)  
**BOILING POINT:** No data available  
**MELTING POINT:** No data available  
**SPECIFIC GRAVITY:** No data available  
**VAPOR DENSITY:** No data available  
**SOLUBILITY:** Soluble

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Stable  
**HAZARDOUS POLYMERIZATION:** Will not occur  
**CONDITIONS TO AVOID:** Excess heat  
**INCOMPATIBILITY:** Oxidizing agents, water, and moisture  
**DECOMPOSITION PRODUCTS:** Holmium oxides and sulfur oxides

## SECTION 11 TOXICOLOGICAL DATA

**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:** No data

Lanthanons can cause delayed blood clotting leading to hemorrhages. Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste, and live damage.

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

Not a dangerous good.

## SECTION 15 REGULATORY INFORMATION

**TSCA:** Listed in the TSCA inventory  
**SARA 302/304:** Not Listed  
**SARA 311/312:** Not Listed  
**SARA (TITLE 313):** Not Listed  
**CALIFORNIA PROP. 65:** Not Listed

## **SECTION 16 OTHER INFORMATION**

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DATE PREPARED: 01/15

SDS DEPT.