



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cadmium Sulfate Hydrate**
 PRODUCT NUMBER: 1365-5
 CAS NUMBER: 15244-35-6
 SYNONYMS: Sulfuric acid, cadmium (2+) salt, hydrate
 MANUFACTURER:

ProChem, Inc.
 826 Roosevelt Road
 Rockford, IL 61109

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 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

Danger

Hazard Statements

H301	Toxic if swallowed.
H330	Fatal if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink, or smoke when using this product.
P273	Avoid release to the environment
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	
P301+P310+P330	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS CLASSIFICATION:

Health: 4 Chronic: * Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 4 Flammability: 0 Reactivity Hazard: 0

EYE CONTACT: May cause slight to mild irritation of dust.

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

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

INGESTION: Fatal if inhaled.

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

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{CdSO}_4 \cdot \text{XH}_2\text{O}$

Molecular Weight: 208.47 (anhy.)

CHEMICAL NAME	CAS#	%
Cadmium Sulfate Hydrate	15244-35-6	98

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 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.

Additional Information: First aiders need to protect themselves by wearing gloves and safety glasses before approaching victim. Remove contaminated clothing if necessary. Show this safety data sheet (SDS) to doctor / medical responders.

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: Sulfur oxides and cadmium oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all appropriate equipment when using this material. Ensure adequate ventilation. Work under hood. Avoid dust formation. Avoid breathing dust.

ENVIRONMENTAL PRECAUTIONS: Prevent spillage from entering drains or allowing to be released into the environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Mix spills 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. Ensure adequate ventilation. Work under hood. Avoid contact with skin and eyes.

CONDITIONS FOR SAFE STORAGE: Store in cool, dry, and well-ventilated area. Store away from moisture.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EXPOSURE CONTROLS:

Component	Exposure Limits	Basis	Entity
Cadmium Sulfate Hydrate	0.01 mg/m ³	TWA	ACGIH
	0.02 mg/m ³	PEL	OSHA

TWA: Time Weighted Average over 8 hours of work.

PEL: Permissible Exposure Limit

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: None

MOLECULAR WEIGHT: 208.47 (anhy.)

BOILING POINT: Decomposes

MELTING POINT: > 40° C

SPECIFIC GRAVITY: 3.09 gm/ml

VAPOR DENSITY: No data available

SOLUBILITY: Soluble

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Reacts with strong oxidizing agents

INCOMPATIBILITY: Oxidizing agents

DECOMPOSITION PRODUCTS: Sulfur oxides and cadmium oxides

SECTION 11 TOXICOLOGICAL DATA

ACUTE TOXICITY: LD50 Oral – rat – male – 107 mg/kg. LC50 Inhalation – rat – male – 3 h - > 0.0046 mg/l

CARCINOGENIC EFFECTS: Carcinogen to humans

MUTAGENIC EFFECTS: Not available

TETRATOGENIC EFFECTS: Not available

RTECS: EV2700000

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

SECTION 12 ECOLOGICAL DATA

TOXICITY TO FISH: LC50 – *Ictalurus punctatus* -4.48 mg/l – 96 h.

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: LC50 – *Daphnia pulex* (Water flea) – 0.042 mg/l – 48 h.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORTATION DATA

DOT: UN2570

Cadmium compounds
(Cadmium Sulfate Hydrate)
CLASS 6.1
PG III

IATA: UN2570

Cadmium compound
(Cadmium Sulfate Hydrate)
CLASS 6.1
PG III

Marine Pollutant: No

SECTION 15 REGULATORY INFORMATION

TSCA: Listed

SARA 302/304: Not Listed

SARA 311/312: Acute Health Hazard, Chronic Health Hazard

SARA (TITLE 313): Cadmium Sulfate Hydrate

CALIFORNIA PROP. 65: Cadmium Sulfate Hydrate - This product is known to cause cancer.

MASSACHUSETTS RIGHT TO KNOW COMPONENTS: Cadmium Sulfate Hydrate

NEW JERSEY RIGHT TO KNOW COMPONENTS: Cadmium Sulfate Hydrate

PENNSYLVANIA RIGHT TO KNOW COMPONENTS: Cadmium Sulfate Hydrate

SECTION 16 OTHER INFORMATION

DISCLAIMER: The information herein is believed to be accurate and reliable as of the date compiled. However, Prochem, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information in this document or any use of the product based on the information.

DATE PREVIOUSLY PREPARED: 06/15

DATE REVISED 08/26

REVISION SUMMARY: Removed fax number. Updated section # 2 hazards and precautionary statements. Section 15. All other details in this document about this product remained unchanged. Revised by EHS 08/10/26
EHS/SDS DEPT.