



SAFETY DATA SHEET

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SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Cerium (IV) Sulfate Hydrate**

PRODUCT NUMBER: 1425-5

CAS NUMBER: 95838-16-7

SYNONYMS: Ceric sulfate hydrate

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Danger

Hazard Statements

H303	May be harmful if swallowed
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Phrases

P260	Do not breathe dusts or mists.
P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353+P310	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340+P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
P363	Wash contaminated clothing before reuse.
P501	Dispose of contents/container to an approved waste disposal plant.

HMIS CLASSIFICATION:

Health: 2 Fire: 0 Reactivity Hazard: 0

NFPA RATING:

Health: 2 Flammability: 0 Reactivity Hazard: 0

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

EYE CONTACT: Causes serious eye damage.

SKIN CONTACT: Causes severe burns to skin.

INHALATION: Irritating to the mucous membranes and upper respiratory tract.

INGESTION: Immediate medical attention is required. Do not induce vomiting. Drink plenty of water.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

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

Molecular Weight: 332.24 (anhy.)

CHEMICAL NAME	CAS#	%
Cerium (IV) Sulfate Hydrate	95838-16-7	99.9

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: Immediately wash affected area thoroughly with soap and 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: Do not induce vomiting. Give 2-4 cups of milk or water provided person is conscious and alert. Seek medical assistance immediately.

SECTION 5 FIREFIGHTING MEASURES

FLASH POINT: Not available

AUTO IGNITION TEMPERATURE: Not available

EXPLOSION LIMITS: Not available

EXTINGUISHING MEDIUM: Use Carbon dioxide fire extinguisher. (Powder or Foam) as Water is ineffective. Any dry chemical, dry sand measures that are appropriate to local circumstances and the surrounding environment.

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 cerium oxides

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear all required personal protective equipment when using this material. Ensure adequate ventilation and use ventilation hood. 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.

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.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION (Cont.)

RESPIRATOR: Use an approved respirator.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: White to off white solid

ODOR: None

MOLECULAR WEIGHT: 332.24 (anhy.)

BOILING POINT: No data available

MELTING POINT: 200° C (dec.).

SPECIFIC GRAVITY: 3.24.

VAPOR DENSITY: No data available

SOLUBILITY IN WATER: Soluble in small amounts. Hydrolyzes in large amounts of water.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable. Moisture sensitive.

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: No data available

INCOMPATIBILITY: No data available.

DECOMPOSITION PRODUCTS: Sulfur oxides and cerium 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: Not available

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

SECTION 12 ECOLOGICAL DATA

TOXICITY TO DAPHNIA AND OTHER AQUATIC INVERTEBRATES: Static test EC50 – Daphnia magna (water flea) – 1.9 mg/l – 48h

TOXICITY TO ALGAE: Static test ErC50 – Pseudokirchneriella subcapitata (green algae) – 0.658 mg/l – 72h. Static test NOEC-
Pseudokirchneriella subcapitata (green algae) – 0.555 mg/l – 72h.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This product contains substances which are hazardous for the environment and will cause long-term effects.

Do not allow material to contaminate ground water system.

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 14 TRANSPORTATION DATA

UN3260.

Corrosive solid, acidic, inorganic, n.o.s.

Class 8

PG II

SECTION 15 REGULATORY INFORMATION

TSCA – Listed – Toxic Substance Control Act, (40 CFR Part 710)

SARA 302: Not listed

SARA (TITLE 313): Not listed -

SARA 311/312: Acute Health Hazard

MASSACHUSETTS RIGHT TO KNOW: No components are subject to the Massachusetts Right to Know Act.

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 REVISED: 03/22

REVISED DATE: 08/26

REVISED SUMMARY: removed fax number. Updated section 2, section 15. All other details in this document about this product remained unchanged. Updates made by EHS 08/10/2016

EHS/SDS DEPT.