



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **CERIUM (III) NITRATE SOLUTION**

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE



Signal Word **Danger**

Hazard Statements

H272	May intensify fire; oxidizer
H332	Harmful if Inhaled.
H302	Harmful if Swallowed
H314	Causes severe skin burns and eye damage

Precautionary Phrases

P210	Keep away from heat/sparks/open flames/hot surfaces. –No smoking
P220	Keep/Store away from clothing/.../combustible materials.
P261	Avoid breathing dust/fume/gas/mist/vapour/spray.
P280	Wear protective gloves/eye protection/face protection
P404	Store in closed container.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

HMIS CLASSIFICATION:

Health: 3 Flammability: 0 Physical Hazard: 1

NFPA RATING:

Health: 3 Fire: 0 Instability: 1

POTENTIAL HEALTH EFFECTS: Inhalation, Ingestion, Skin and Eye

EYE CONTACT: Causes severe irritation to eyes.

SKIN CONTACT: Causes irritation to skin.

INHALATION: Causes irritation to respiratory system.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

INGESTION: No data

ACUTE HEALTH EFFECTS: No data

CHRONIC HEALTH EFFECTS: No information available on long-term chronic effects.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Formula: $\text{H}_2\text{Ce}(\text{NO}_3)_6$

Molecular Weight: 514.1800

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Cerium (III) Nitrate	10294-41-4	65-75	Not Determined	Not Determined
Nitric Acid	7697-37-2	0-5		
Water	7732-18-5	25-35	Not Applicable	Not Applicable

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) 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, burns, or redness persists.

INHALATION: Remove victim to fresh air. 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. Give oxygen if deemed necessary. If not breathing administer CPR. Get emergency care immediately.

INGESTION: Seek medical assistance immediately. Keep the victim calm. Do not induce vomiting.

SECTION 5 FIREFIGHTING MEASURES

EXTINGUISHING MEDIUM: Use water only

SPECIAL FIRE FIGHTING PROCEDURES: If this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective clothing. Use water spray to cool fire-exposed containers and structures.

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS: If involved in a fire this material may emit oxides and nitrogen.

UNUSUAL FIRE OR EXPLOSION HAZARDS: None known.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Evacuate all personnel to safe areas. Use adequate protection when handling. Use self-contained breathing apparatus for large spills.

ENVIRONMENTAL PRECAUTIONS: This material should be prevented from contaminating soil or from sewer and drainage systems and bodies of water.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Isolate spillage. Absorb spill with inert materials, then place in applicable chemical waste container.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Be sure to have appropriate exhaust and ventilation.

CONDITIONS FOR SAFE STORAGE: Keep containers tightly closed. Store in a cool, dry, and well-ventilated area away from heat and all sources of ignition. Store away from incompatible materials.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses w/side shields, or safety goggles, faceshield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear PVC, rubber, neoprene.

VENTILATION: If possible, handle the material in a local exhaust hood.

RESPIRATOR: If ventilation is not available, a high efficiency acid/mist respirator should be worn. The use of respirators required a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Protection to avoid contact with clothing and shoes.

OTHER PROTECTIVE EQUIPMENT: Eye was and quick-drench shower facilities should be available in work area. Use in a controlled environment. Do not smoke, eat, or drink in area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear to yellow liquid

MELTING POINT: Not applicable

BOILING POINT: No data

FLASH POINT: Not applicable

MOLECULAR WEIGHT:

ODOR: Acrid, pungent

VAPOR PRESSURE: Not applicable

VAPOR DENSITY (AIR = 1): Not applicable

% VOLATILE BY VOLUME: Non volatile

SOLUBILITY IN WATER: Not applicable

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Excessive temperatures

INCOMPATIBILITY: Reducing agents

DECOMPOSITION PRODUCTS: Gaseous oxides of nitrogen form on decomposition of nitrates by temperature exceeding 150 deg. C. and/or by oxidation reactions.

SECTION 11 TOXICOLOGICAL DATA

CARCINOGENIC EFFECTS: No

MUTAGENIC EFFECTS: No

TETRATOGENIC EFFECTS: No

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

SECTION 12 ECOLOGICAL DATA

No information available

SECTION 13 DISPOSAL CONSIDERATIONS

Retain all contaminated solage from removal and treatment. Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Nitrates, inorganics, n.o.s.

Class 5.1

UN1477

PGIII

SECTION 15 REGULATORY INFORMATION

TSCA Listed in TSCA inventory

SARA (TITLE 313): Total Nitrates (in solution)

RCRA STATUS: Meets criteria for nitrated and should be managed as a hazardous waste.

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.

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