



SAFETY DATA SHEET

ProChemOnline.com



SECTION 1 PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **Yttrium Nitrate Solution**

MANUFACTURER:

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SECTION 2 HAZARDS IDENTIFICATION

CLASSIFICATION OF SUBSTANCE OR MIXTURE

Pictogram



Signal Word

Warning

Hazard Statements

H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H315	Causes skin irritation
H318	Causes serious eye irritation

Precautionary Phrases

P210	Keep away from heat/sparks/openflames/hot surfaces. – No smoking
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash skin thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/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 soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	IF SKIN irritation occurs: Get medical advice/attention.
P337 + P313	IF eye irritation persists: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.

SECTION 2 HAZARDS IDENTIFICATION (Cont.)

HMIS RATING:

Health: 1

Flammability: 0

Reactivity: 0

NFPA RATING:

Health: 1

Fire: 0

Stability: 0

POTENTIAL HEALTH EFFECTS: Eye, Skin, and Inhalation**EYE CONTACT:** Causes severe irritation of the eyes.**SKIN CONTACT:** Causes irritation to respiratory system.**INHALATION:** Causes irritation to respiratory system.**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:

Molecular Weight: No data

CHEMICAL NAME	CAS#	%	ACGIH (TWA)	OSHA (PEL)
Yttrium Nitrate Hexahydrate	13494-98-9	72-78	Not established	Not established
Water	7732-18-5	22-28		

SECTION 4 FIRST AID MEASURES

EYE EXPOSURE: Immediately flush the eyes with copious amounts of water (lukewarm if possible) for several 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 water. Remove contaminated clothes if necessary. Seek medical assistance if irritation 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

FLASH POINT: Not applicable**AUTO IGNITION TEMPERATURE:** Not applicable**EXPLOSION LIMITS:** Not applicable**EXTINGUISHING MEDIUM:** Use water spray. This product may lower the ignition temperature of flammable substances. This product contains oxidizers. Ignition may be caused through the heat of the reaction with reducing agents and the agent's combustible components.**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:** None known.**UNUSUAL FIRE OR EXPLOSION HAZARDS:** None known

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Evacuate area. 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. Retain all contaminated solage from removal and treatment. Dispose of in accordance with all waste disposal regulations.

SECTION 7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Protect container against physical damage.

CONDITIONS FOR SAFE STORAGE: Keep container tightly closed. Keep containers upright to prevent leakage. Use and store this material in a cool, dry, well-ventilated area away from heat and all sources of ignition. Store away from incompatible materials. Do not store near reducing agents, acids, alkalies, and flammable substances.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION: Always wear approved safety glasses with side shields, safety goggles, and face shield when handling a chemical substance in the laboratory.

SKIN PROTECTION: Wear PVC, rubber, neoprene

VENTILATION: Mechanical: Acceptable. 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 requires a Respirator Protection Program to be in compliance with 29CFR 1910.34.

ADDITIONAL PROTECTION: Protection to avoid contact with clothing and shoes. (Chemical-resistant lab apron, overalls, booties, sleevelets)

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

COLOR AND FORM: Clear liquid

MOLECULAR WEIGHT: No data

MELTING POINT: Not applicable

SPECIFIC GRAVITY: 1.633

BOILING POINT: No data

VAPOR PRESSURE: Not applicable

VAPOR DENSITY: Not applicable

% VOLATILE BY VOLUME: Non volatile

SOLUBILITY IN WATER: Soluble

ODOR: Slight nitric odor

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

HAZARDOUS POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: None known

INCOMPATIBILITY: Avoid reducing agents. Incompatible with strong acids, alkali, oxidizing agents, water, reducing agents, flammables, alkali metals, and aluminum alloys.

DECOMPOSITION PRODUCTS: None known

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

Dispose of in according to local state and federal regulations.

SECTION 14 TRANSPORTATION DATA

Nitrates, inorganic, aqueous solution, n.o.s. (Yttrium Nitrate Solution)

Class 5.1

UN3218

PG II

SECTION 15 REGULATORY INFORMATION

TSCA: Listed in TSCA inventory

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

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

SECTION 16 OTHER INFORMATION

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