

LTS Research Laboratories, Inc. Safety Data Sheet Scandium nitrate hydrate

1. Product and Company Identification

Trade Name: Scandium nitrate hydrate

Chemical Formula: $Sc(NO_3)_3*xH_2O$

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)



2. Hazards Identification

Signal Word: Danger



Hazard Statements: H272: May intensify fire; oxidizer

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

P210: Keep away from heat/sparks/open flames/hot surfaces – No **Precautionary Statements:**

smoking

P220 Keep/Store away from clothing/ combustible materials. P221 Take any precaution to avoid mixing with combustibles.

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P264: Wash face, hands and any exposed skin thoroughly after handling

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves/protective clothing/eye protection/face

protection

P302+P352: IF ON SKIN: Wash with soap and water

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 85887Ch

P312: Call a POISON CENTER or doctor/physician if you feel unwell 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 P370+P378: In case of fire: Use CO₂, dry sand, dry chemical or

alcohol-resistant foam for extinction.

P403+P233: Store in a well-ventilated place. Keep container tightly

closed

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 0 Flammability: 2 Physical:

3. Composition

Chemical Family: Ceramic

Additional Names: Scandium (III) nitrate hydrate, scandium trinitrate hydrate

Scandium nitrate hydrate (Sc(NO₃)₃*xH₂O):

Percentage: 100 wt% CAS #: 107552-14-7 EC #: 236-701-5

4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	None
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	Keep patient warm. Seek immediate medical attention. Seek immediate medical attention.
Skin:	Immediately wash affected area with mild soap and water. Remove any
	contaminated clothing. Seek immediate medical attention.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention
	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	Do not use water for fires – use CO ₂ , sand, extinguishing powder.
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective
	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	6. Accidental Release Measures
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in special protection information. Keep unprotected persons away. Isolate spill area and provide ventilation. Soak up with inert absorbent material. Vacuum up spill using an electrically protected high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal. Take care not to raise dust. Do not flush into
	surface water or sanitary sewer system
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Wash thoroughly after handling. Avoid breathing vapors, mist or gas.
Storage Conditions:	Do not get in eyes, on skin, or on clothing. Avoid ingestion and
	inhalation. Store in a cool dry place in a tightly sealed container. Store under dry
Storage Conditions.	inert gas. Store away from clothing and other combustible materials,
	water/moisture, strong acids, strong reducing agents. This product is
	hygroscopic. Store apart from materials and conditions listed in section 10.
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before
Work Hygieme Wantenance.	2 1 12 D (11 1 (00 1 d) 12 14
Working grome Warmenance.	eating and smoking. Do not blow dust off clothing or skin with
Ventilation:	compressed air. Provide sufficient ventilation to maintain concentration at or below

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: N/A Threshold Limit Value: N/A

Special Equipment: Properly operating chemical fume hood designed for hazardous

chemicals and having an average face velocity of at least 100 feet per

minute.

Respiratory Protection: Dust Respirator Protective Gloves: Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Off-white

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: Water Solubility: Soluble **Boiling Point:** N/A **Melting Point:** N/A Flash Point: N/A Autoignition Temperature: N/A Density: N/A

Molecular weight: 230.97 g/mol (anhydrous)

10. Reactivity

Stable under recommended storage conditions. Contact with Stability:

combustible/organic material may cause fire

Strong reducing agents, combustibles (wood paper, oil, clothing, etc.), Reacts With:

water/moisture, strong acids

Incompatible Conditions:

Water/moisture, heat, ignition sources

Hazardous Decomposition Products: Metal oxide fume, nitrogen oxides (NOx), scandium oxide

11. Toxicological Information

Potential Health Effects:

Causes serious eye irritation Eyes: Skin: Causes skin irritation Ingestion: May cause irritation

Inhalation: May cause respiratory irritation

Chronic: N/A

Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A

Median Lethal Dose: N/A

IARC: 2A - Group 2A: Probably carcinogenic to humans (Scandium Carcinogen:

trinitrate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen

by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by

NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by

OSHA.

12. Ecological Information

Aquatic Toxicity: N/A

Persistent Bioaccumulation Toxicity: May persist Very Persistent, Very Bioaccumulative: N/A

Notes:

May cause long-term adverse effects in the environment.

Do not allow material to contaminate ground water system.

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1 Oxidizers

Packing Group:

UN Number:

Proper Shipping Name:

UN1477

Nitrates, inorganic, n.o.s (Scandium nitrate hydrate)

15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: No

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 04/25/2019