



MSDS

P.O. Box 329 - 802 Washington Avenue Chestertown, MD 21620 - USA

MATERIAL SAFETY DATA SHEET

TELEPHONE # FOR INFORMATION 410 778-3100

24 HOUR EMERGENCY NUMBER (CHEM-TEL): USA, Canada, Puerto Rico 800-255-3924;

Outside North American Continent 813-248-0585 (call Collect)

1. Product Identification

Product Code: 3965

Product Description: Thorium Nitrate (0.0013 M)

Manufactured By: LaMotte Company
802 Washington Avenue
Chestertown, MD 21620

2. Composition/Information On Ingredients

Hazard	CAS#/Name	%	PEL	TLV
Yes	13470-07-0 Thorium Nitrate 4-hydrate; TSCA# is for thorium nitrate anhydrous, HNO ₃ .1/4 Th; Sol'n is 0.07% as anhydrous.	0.07	N/A	N/A
No	7732-18-5 Water	to 100%		

3. Hazards Overview

Primary Route Of Entry: Ingestion

May be harmful if swallowed.

HMIS Hazard

Scale: 4 = Extreme, 3 = High, 2 = Moderate, 1 = Slight, 0 = Least

Health: 0 Flammability: 0 Reactivity: 0

Carcinogenicity: None:

Other Health Related Comments:

Thorium nitrate investigated as a reproductive effector.

Product Code: 3965

Product Description: Thorium Nitrate (0.0013 M)

4. First Aid Measures

Eye Contact: Flush thoroughly with water.

Skin Contact: Wash with soap and water.

Ingestion: Give water. Consult physician.

Inhalation: Move to fresh air in case of accidental inhalation of vapors

5. Fire Fighting Measures

Flash Point (Method Used): N/A

LEL: N/A

UEL: N/A

Extinguishing Media: Not a fire hazard

Special Fire Fighting Procedures: N/A

Unusual Fire & Explosion Hazard: N/A

6. Accidental Release Measures

Clean up thoroughly. Wear PPE as specified in section 8. If local regulations permit, small quantities may be flushed to drain. Otherwise, neutralize with alkaline material, absorb with an inert material, and place in a chemical waste container.

7. Handling & Storage

Store in cool, dry, storage area. Keep out of direct sunlight.

Product Code: 3965

Product Description: Thorium Nitrate (0.0013 M)

8. Exposure Controls/Personal Protection

Ventilation

Normal

Protection When Handling

Eye Protection Gloves Lab Coat

Work/Hygenic Practices: Avoid contact with skin and eyes. Wash after handling.

9. Physical & Chemical Properties

Appearance: Clear Colorless Liquid

Solubility In Water: Soluble

Odor: None

pH: 3 (slightly acidic)

Vapor Density: <1 (Air=1)

Vapor Pressure: <17 mm Hg @ 20° C

Boiling Point: ca. 100° C

Melting Point: ca. 0° C

10. Stability & Reactivity

Stable: Yes

Conditions To Avoid: N/A

Incompatibility (Materials To Avoid): N/A

Hazardous Decomposition Products: N/A

11. Toxicological Information

Thorium nitrate is a radioactive oxidizing material with a half life of 1.41X10¹⁰ years and a Specific Activity of 0.04 microcuries/gm (alpha). The Specific Activity of this very dilute solution is 0.000032microcuries/g of solution.

Target Organs: N/A

Product Code: 3965**Product Description:** Thorium Nitrate (0.0013 M)

12. Ecological Information

Information Not Yet Available

13. Disposal Considerations

Very dilute solution of a radioactive oxidizing material. Specific Activity = 0.00003 microcuries/g solution.
Dispose of in accordance with federal, state, and local regulations.

14. Transportation Information

Not Regulated For Transport

15. Regulatory Information**Chemical Inventory Status**

Hazard	Ingredient	USA TSCA	Europe EC	--- Canada --- DSL NDSL		Australia	Japan
Yes	13823-29-5 Thorium Nitrate, anhydrous. TSCA# 13823-29-5 is for thorium nitrate anhydrous HNO ₃ .1/4Th	Yes	Yes	Yes	No	Yes	No
No	7732-18-5 Distilled Water	Yes	Yes	Yes	No	Yes	Yes

Federal, State, & International Regulations

Ingredient	--- SARA 302 ---		----- SARA 313 -----		CERCLA	RCRA 261.33	TSCA 8(D)
	RQ	TPQ	Listed	Chemical Category			
13823-29-5 Thorium Nitrate, anhydrous. TSCA# 13823-29-5 is for thorium nitrate anhydrous HNO ₃ .1/4Th	No	No	No	nitrate cmpnd.	No	No	No
7732-18-5 Distilled Water	No	No	No	No	No	No	No

Product Code: 3965**Product Description:** Thorium Nitrate (0.0013 M)

--- SARA 311/312 ---**Hazard Categories****----- Australia -----****Hazchem****Poison****This MSDS Is****Ingredient Acute Chronic Fire Pressure Reactivity Code Schedule WHMIS Compliant**

13823-29-5 Yes Yes No No No None Allocated None Allocated
Thorium Nitrate, anhydrous. TSCA# 13823-29-5 is for thorium nitrate anhydrous HNO₃.1/4Th

7732-18-5 No No No No No None Allocated None Allocated
Distilled Water

product 3965 No No No No No None Allocated None Allocated Yes
as a whole

16. Other Information

Keep container tightly closed.

WARNING: This product contains a chemical known to the State of California to cause cancer.

Prepared By: DMH, Regulatory Affairs Department

Revised: 2/4/2009
