

SAFETY DATA SHEET

Creation Date 18-Sep-2009

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

Lanthanum(III) nitrate hexahydrate

Cat No. : 11267

CAS No Synonyms

Recommended Use Uses advised against

Lanthanum trinitrate hexahydrate. Laboratory chemicals.

Food, drug, pesticide or biocidal product use.

10277-43-7

Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 2 Category 3

Label Elements

Signal Word Danger

Hazard Statements May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep/Store away from clothing/ other combustible materials Take any precaution to avoid mixing with combustibles Response IF exposed or concerned: Get medical attention/advice Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Skin IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention Fire In case of fire: Use CO2, dry chemical, or foam for extinction Storage Store locked up Store in a well-ventilated place. Keep container tightly closed Disposal Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component	CAS No	Weight %
Lanthanum nitrate, hexahydrate	10277-43-7	98-99.99

4. First-aid measures		
General Advice	If symptoms persist, call a physician.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Get medical attention. Wash off immediately with plenty of water for at least 15 minutes.	
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.	

Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and	None reasonably foreseeable.
effects Notes to Physician	Treat symptomatically
	5. Fire-fighting measures

Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

Nitrogen oxides (NOx). Heavy metal oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Health 2	Flammability 0	Instability 0	Physical hazards OX				
	6. Accidental rel	lease measures					
Personal Precautions	Ensure adequate ventilatio formation.	n. Use personal protective eq	uipment as required. Avoid dust				
Environmental Precaut	Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground water system. Do not flush into surface water or sanitary sewer system.						
Methods for Containme Up	ent and Clean Sweep up and shovel into s containers for disposal. So suitable containers for disp	ak up with inert absorbent ma	al. Keep in suitable, closed terial. Sweep up and shovel into				
	7. Handling and storage						
Handling	get in eyes, on skin, or on o		sure adequate ventilation. Do not nhalation. Avoid dust formation. s.				
Storage.		ompatible Materials. Strong a	tilated place. Do not store near cids. Strong reducing agents.				
	8. Exposure controls	/ personal protecti	on				
Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.							

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.	
Personal Protective Equipment		
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.	
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.	
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.	
Recommended Filter type:	Particulates filter conforming to EN 143.	
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

7.11130104	
Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
pH	3-4
Melting Point/Range	40 °C / 104 °F
Boiling Point/Range	126 °C / 258.8 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	> 1.0
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	La N3 09 . 6 H2 O
Molecular Weight	433.01

10. Stability and reactivity

Reactive Hazard	Yes	
Stability	Stable under normal conditions. Oxidizer: Contact with combustible/organic material may cause fire.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation. Combustible material.	
Incompatible Materials Strong acids, Strong reducing agents, Finely powdered metals, Combus		
Hazardous Decomposition Products Nitrogen oxides (NOx), Heavy metal oxides		

Hazardous Polymer	ization	Hazardous polyme	erization does not	occur.		
Hazardous Reactions None under normal processing.						
Acute Texicity		11. Ioxico	ological info	ormation		
Acute Toxicity						
Product Informatior Component Informa		No acute toxicity in	nformation is availa	able for this produc	t	
Foxicologically Syn		No information ava	ailable			
Products Delayed and immed	liate effects as w	ell as chronic effe	cts from short ar	d long-term expo	sure	
rritation		Irritating to eyes a				
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has lisi	ted any ingredient	as a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Lanthanum nitrate,	10277-43-7	Not listed	Not listed	Not listed	Not listed	Not listed
hexahydrate Mutagenic Effects		No information ava	ailable			
Reproductive Effect	ts	No information ava	ailable.			
Developmental Effe	cts	No information ava	ailable.			
Feratogenicity		No information available.				
STOT - single exposure STOT - repeated exposure		Respiratory system None known				
Aspiration hazard		No information available				
Symptoms / effects,both acute and No information available delayed						
Endocrine Disruptor Information No information available						
Other Adverse Effe	cts	The toxicological p	properties have not	been fully investig	gated.	
		12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into dra water system.	ains. May cause lo	ong-term adverse et	ffects in the enviro	nment. Do not allo	w material to conta	aminate ground
Persistence and Degradability May persist based on information available.						
Bioaccumulation/ Accumulation No information available.						
Mobility Will likely be mobile in the environment due to its water solubility.						
		13. Dispo	sal conside	erations		
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			gional, and			

14. Transport information				
DOT				
UN-No	UN1477			
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.			
Hazard Class	5.1			
Packing Group	II			
TDG				
UN-No	UN1477			
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.			
Hazard Class	5.1			
Packing Group	II			
<u>IATA</u>				
UN-No	UN1477			
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.			
Hazard Class	5.1			
Packing Group	II			
IMDG/IMO				
UN-No	UN1477			
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.			
Hazard Class	5.1			
Packing Group				
	15. Regulatory information			

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Lanthanum nitrate, hexahydrate	10277-43-7	-	-	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Lanthanum nitrate, hexahydrate	10277-43-7	-	-	-	Х	-		Х	Х	-

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	CAS No	Weight %	SARA 313 - Threshold Values %	SARA 313 - Reporting threasholds
Lanthanum nitrate, hexahydrate	10277-43-7	98-99.99	1.0 %	-

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Lanthanum nitrate,	-	Х	-	Х	-
hexahydrate					

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Lanthanum nitrate, hexahydrate	10277-43-7	-	-	-

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Lanthanum nitrate, hexahydrate	10277-43-7	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Lanthanum nitrate, hexahydrate	10277-43-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com
Creation Date Revision Date Print Date Revision Summary	18-Sep-2009 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.
Disclaimer	

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS