

## SAFETY DATA SHEET

Revision Date 30-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

## Europium(III) nitrate hydrate

#### Cat No. : NA1160

CAS No **Synonyms** 

No information available **Recommended Use** Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use.

100587-95-9

#### Details of the supplier of the safety data sheet

#### Company

Stanford Advanced Materials 23661 Birtcher Dr. Lake Forest, CA 92630 USA Tel: +1 (949) 407-8904

**Emergency Telephone Number** 

Tel: +1 (949) 407-8904

## 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

Wash face, hands and any exposed skin thoroughly after handling

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

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

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

#### 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 in a well-ventilated place. Keep container tightly closed

Store locked up

#### 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 %	
Europium(III) nitrate hydrate		100587-95-9	<=100	
	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		Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.		
Inhalation		Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.		

Ingestion Clean mouth with water and drink afterwards plenty of v symptoms occur.	
Most important symptoms and None reasonably foreseeable.	
Notes to Physician Treat symptomatically	

## 5. Fire-fighting measures

Suitable Extinguishing Media	Carbon dioxide (CO 2). Powder. Water spray. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
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). Europium oxide.

#### **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.

	HealthFlammability20		<b>Instability</b> 0	Physical hazards - OX
		6. Accidental re	lease measures	
Personal	Precautions	Ensure adequate ventilation	n. Use personal protective equ	ipment as required. Avoid dust
Environm	ental Precautions		6	n 12 for additional Ecological water system. Do not flush into
Methods f Up	or Containment and Cl	<b>Clean</b> Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.		
		7. Handling	and storage	
Handling		ingestion and inhalation. A		ure adequate ventilation. Avoid in eyes, on skin, or on clothing.
Storage.			ep containers tightly closed in a ombustible materials. Incompa	dry, cool and well-ventilated tible Materials. Reducing Agent.

8. Exposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
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.		

Strong reducing agents. Combustible material.

9. Physical and chemical properties				
Physical State	Solid Crystalline			
Appearance	Colorless - Pink			
Odor	No information available			
Odor Threshold	No information available			
рН	No information available			
Melting Point/Range	85 °C / 185 °F			
Boiling Point/Range	No information available			
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	No information available			
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	Eu(NO3)3. xH2 O (x=6)			
Molecular Weight	337.97(anhy)			

10. Stability and reactivity

**Reactive Hazard** 

Yes

Stability

Moisture sensitive. Oxidizer: Contact with combustible/organic material may cause fire.

Conditions to Avoid	Incompatible products. Excess heat. Combustible material.
Incompatible Materials	Reducing Agent, Strong reducing agents, Combustible material
Hazardous Decomposition Product	<b>s</b> Nitrogen oxides (NOx), Europium oxide
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.
	11. Toxicological information

#### Acute Toxicity

Product Information   Component Information   Toxicologically Synergistic No information available   Products   Delayed and immediate effects as well as chronic effects from short and long-term exposure			
Irritation	No information available		
Sensitization	No information available		

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico	
Europium(III) nitrate hydrate	100587-95-9	Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information available					
Reproductive Effects		No information available.					
Developmental Effect	s	No information available.					
Teratogenicity		No information available.					
STOT - single exposure STOT - repeated exposure		Respiratory system None known					
Aspiration hazard		No information available					
Symptoms / effects,both acute and delayed		No information available					
Endocrine Disruptor Information		No information available					
Other Adverse Effects		The toxicological properties have not been fully investigated.					
	12. Ecological information						

#### Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Persistence and Degradability	based on information available. May persist
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations

#### Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

	14. Transport information					
DOT						
UN-No	UN1477					
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.					
Technical Name	(Europium(III) nitrate hydrate)					
Hazard Class	5.1					
Packing Group	III					
TDG						
UN-No	UN1477					
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.					
Hazard Class	5.1					
Packing Group	III					
<u>IATA</u>						
UN-No	UN1477					
Proper Shipping Name	NITRATES, INORGANIC, N.O.S.					
Hazard Class	5.1					
Packing Group	III					
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
Europium(III) nitrate hydrate	100587-95-9	-	-	-

#### 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
Europium(III) nitrate hydrate	100587-95-9	-	-	-	-	-		-	-	-

**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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### 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
<b>OSHA</b> - 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	Not applicable
<b>U.S. Department of Transportation</b> 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	

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	J	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Europium(III) nitrate hydrate	100587-95-9	-	-	-

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

Comp	onent	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Europium(III) r	itrate hydrate	100587-95-9	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)
E	Europium(III) nitrate hydrate	100587-95-9	Not applicable	Not applicable	Not applicable	Not applicable

### 16. Other information

Prepared By

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Revision Date Print Date Revision Summary 30-Mar-2024 30-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**