

# SAFETY DATA SHEET

Creation Date 17-May-2010

Revision Date 27-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

# Europium (III) sulfate

Cat No. : 29106

CAS No Synonyms 10031-55-7 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

# 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)

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

## Label Elements

Signal Word Warning

Hazard Statements 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

# 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

# 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) sulfate octahy	/drate	10031-55-7	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	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 water. Get medical attention if symptoms occur.					
Most important symptoms and effects	None reasonably foreseeable.					

Notes to Physician	Treat symptomatically					
	5. Fire-fighting measures					
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.					
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature Explosion Limits	Not applicable					
Upper	No data available					
Lower	No data available					
Sensitivity to Mechanical Impac	t No information available					
Sensitivity to Static Discharge	No information available					
Specific Hazards Arising from the C	Thomical					

# Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

# Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors.

# 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.

<u>NFPA</u> H	lealth 2	Flammability 0	Instability 0	Physical hazards N/A				
		6. Accidental rel	ease measures					
Personal Pre	cautions	Ensure adequate ventilatior formation.	n. Use personal protective equip	pment as required. Avoid dust				
Environmenta	al Precautions	Should not be released into Information.	the environment. See Section	12 for additional Ecological				
Methods for ( Up	Containment and Clea	an Sweep up and shovel into s containers for disposal.	uitable containers for disposal.	Keep in suitable, closed				
	7. Handling and storage							
Handling			quipment/face protection. Ensur lothing. Avoid ingestion and inh	re adequate ventilation. Do not nalation. Avoid dust formation.				
Storage.	ge. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incomp Materials. Oxidizing agent.							
	8. E	xposure controls /	personal protectio	n				
Exposure Gu	idelines_	•	ain any hazardous materials wit ion specific regulatory bodies.	h occupational exposure				
Engineering I	Measures	None under normal use cor close to the workstation loca		stations and safety showers are				

# 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 Stand EN166.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.			
Recommended Filter type:	Particle filter.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

# 9. Physical and chemical properties

Physical State	Crystalline Solid
Appearance	Light red
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	375 °C
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	4.950
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	Eu2 O12 S3 . 8 H2 O
Molecular Weight	736.22

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available					
Stability	Stable under normal conditions.					
Conditions to Avoid	Incompatible products.					
Incompatible Materials	Oxidizing agent					
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors						
Hazardous Polymerization	No information available.					
Hazardous Reactions	None under normal processing.					
	11. Toxicological information					
Acute Toxicity						
Product Information	No acute toxicity information is available for this product					

Oral LD50 Dermal LD50 Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.				
Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	No information available well as chronic effects from short and long-term exposure				
Irritation	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) sulfate	10031-55-7	Not listed	Not listed	Not listed	Not listed	Not listed				
octahydrate Mutagenic Effects		No information available								
Reproductive Effect	ts	No information available.								
Developmental Effe	cts	No information available.								
Teratogenicity		No information ava	ilable.							
STOT - single exposision STOT - repeated exposite structure of the second stru		Respiratory systen None known	n							
Aspiration hazard		No information ava	ailable							
Symptoms / effects delayed	s,both acute and	No information ava	No information available							
Endocrine Disrupto	uptor Information No information available									
Other Adverse Effects The toxicological properties have not been fully investigated.										
	12. Ecological information									
Ecotoxicity Do not empty into dra	ains.									
Persistence and De	gradability	<b>y</b> Soluble in water Persistence is unlikely based on information available.								
Bioaccumulation/ A	ccumulation	No information ava	ailable.							
Mobility		Will likely be mobil	e in the environme	ent due to its water	solubility.					
		13. Dispo	sal conside	erations						
Waste Disposal Met	thods	Chemical waste ge hazardous waste. national hazardous	Chemical waste g	enerators must als	o consult local, reg	gional, and				
			sport inforr	mation						
DOT_		Not regulated								
_ <u>TDG</u> IATA	Not regulated									
IMDG/IMO		Not regulated Not regulated								
		¥	latory infor	mation						
		- io. Regu		mation						

## United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Europium(III) sulfate octahydrate	10031-55-7	-	-	-

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
Europium(III) sulfate octahydrate	10031-55-7	-	-	-	-	-		-	-	-

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

#### U.S. Department of Transportation Reportable Quantity (RQ): N

DOT Marine Pollutant	N
DOT Severe Marine Pollutant	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

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	Annex XVII - Restrictions on Certain Dangerous	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Europium(III) sulfate octahydrate	10031-55-7	-	-	-

Not applicable

# 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)
Europium(III) sulfate octahydrate	10031-55-7	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	Convention (PIC)	Basel Convention (Hazardous Waste)
Europium(III) sulfate octahydrate	10031-55-7	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	17-May-2010
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Revision Summary	New emergency telephone response service provider.

Disclaimer

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End of SDS