SAFETY DATA SHEET

Creation Date 10-Feb-2011

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name Europium(III) oxide

Cat No.: AC193020000; AC193020010; AC193020050; AC193020250

CAS No 1308-96-9

Synonyms Dieurpoium trioxide; Europia; Europiumtrioxide

Recommended Use Laboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

2. Hazard(s) identification

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients					
Component	CAS No	Weight %			
Europium oxide (Eu2O3)	1308-96-9	> 95			

4. First-aid measures

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. Get medical attention

immediately if symptoms occur.

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Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Treat symptomatically

Most important symptoms and

Notes to Physician

effects

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and

the surrounding environment.

None reasonably foreseeable.

Unsuitable Extinguishing Media No information available

No information available **Flash Point** Method -No information available

Autoignition Temperature

Explosion Limits

Not applicable

Upper No data available Lower No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

No information available.

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.

NFPA

Health	Flammability	Instability	Physical hazards
0	0	0	N/A

	6. Accidental relea	se measures	
U	O	O	IN/A

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

Environmental Precautions Should not be released into the environment.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep container tightly closed in a dry and well-ventilated place. Store under an inert atmosphere. Keep container tightly closed. Protect from moisture. Incompatible Materials. Strong acids. Oxidizing agent.

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Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure

limitsestablished by the region specific regulatory bodies.

Engineering Measures None under normal use conditions.

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 protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection No protective equipment is needed under normal use conditions.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical StatePowder SolidAppearanceOff-whiteOdorOdorless

Odor Threshold

pH

No information available

No information available

Melting Point/RangeNo data availableBoiling Point/RangeNo information available

Flash Point No information available
Evaporation Rate Not applicable

Flammability (solid,gas)

No information available

Flammability or explosive

limits UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific Gravity 7.420

Solubility Insoluble in water
Partition coefficient; n-octanol/water No data available

Autoignition Temperature Not applicable

Decomposition TemperatureNo information available

ViscosityNot applicableMolecular FormulaEu2 O3Molecular Weight351.91

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Hygroscopic.

Conditions to Avoid Incompatible products. Exposure to moist air or water.

Incompatible Materials Strong acids, Oxidizing agent

Hazardous Decomposition ProductsNo information available

Hazardous Polymerization No information available. Hazardous

Reactions No information available.

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11. Toxicological information

Acute Toxicity

Product Information

Component Information No acute toxicity information is available for this product

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Europium oxide (Eu2O3)	LD50 > 5 g/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic

No information available

Products

Carcinogenicity

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation No information available

Sensitization No information available

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Europium oxide (Eu2O3)	1308-96-9	Not listed				

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

None known

STOT - single exposure

STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects, both acute and No information available

delayed

Endocrine Disruptor Information No information available

Other Adverse Effects The toxicological properties have not

12. Ecological information

Ecotoxicity

Do not empty into drains.

Persistence and Degradability Insoluble in water **Bioaccumulation/ Accumulation** No information available.

Mobility Is not likely mobile in the environment due its low 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.

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14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification Active-	TSCA - EPA Regulatory
			Inactive	Flags
Europium oxide (Eu2O3)	1308-96-9	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

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 oxide (Eu2O3)	1308-96-9	Х	-	215-165-	-	Х	Х	Х	Х	KE-14110
				6						

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

U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act

Not applicable

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

This product does not contain any Proposition 65 chemicals.

California Proposition 65

U.S. State Right-to-Know

Not applicable

Regulations

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N DOT Severe

Marine Pollutant N

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

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Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

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

1308-96-9 CAS No	Not applicable	Not applicable	Not applicable	Net emplicable
CAS No			Not applicable	Not applicable
OAS 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)
1308-96-9	Not applicable	Not applicable	Not applicable	Not applicable
	1308-96-9	Qualifying Quantities for Major Accident Notification 1308-96-9 Not applicable	Qualifying Qualifying Quantities for Major Accident Report Notification Requirements	Qualifying Qualifying Quantities for Major Accident Report Requirements 1308-96-9 Not applicable Not applicable Not applicable

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012

> Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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