

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Europium Oxide

CAS #: 1308-96-9

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

The substance is not classified according to the Globally Harmonized System (GHS).

Hazards not otherwise classified

No data available

GHS label elements

N/A

Hazard pictograms

N/A

Signal word

N/A

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N/A												
WHMIS o	: classificat	ion		.:	.;		. ;	,;			.:	
Not contr												
Classifica	ation syst	em	'	:			;				:"	
HMIS rat	ings (sca	le 0-4) ;			; '	٠.,		;	14.		: '
(Hazardo	us Mater	ials Id	lentific	ation Sys	tem)		:	;	1 1		.:	
HEALTH			,	,	,	,	,	,	,	,	,	,
FIRE	:	: ' '			: ' '	'	;	111		1		
REACTI\				,						,		
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0	:	.:		.:	.:		.:					
Health (a	cute effe	cts) =	1									
Flammab	ility = 0	: ' '		;			:			1		
Physical						,						
Other ha	zards	. '	;	' '		;	٠,		1	·.		
Results o	f PBT an	d vPv	B asse	essment	.:			.:			.:	
PBT:												
N/Å		: • •	'	:	: ' '		;	111		1	111	
vPvB: v	٠.	. '	;	9,		;	4.		ť	٠.		;
IN/A		;										

Substances

Hazard statements

CAS No. / Substance Name:

1308-96-9 Europium(III) oxide

Identification number(s):

EC number:

215-165-6

SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Advice for firefighters

Protective equipment: Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow material to be released to the environment without official permits.

Methods and materials for containment and cleanup:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

The product is not flammable

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from water/moisture.

This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers. Protect from humidity and water. Specific end use(s) No data available SECTION 8. EXPOSURE CONTROLS/PERSONAL **PROTECTION** Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: None.Additional information: No data Exposure controls Personal protective equipment Follow typical protective and hygienic practices for handling chemicals. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands:

Further information about storage conditions:

Impervious gloves

Inspect gloves prior to use.

Suitability of gloves should be determined both by material and quality, the latter of which may vary

manufacturer.

Penetration time of glove material (in minutes)

No data available

Eye protection:

Safety glasses

Body protection:

Protective work clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Powder, chunks, or solid in various forms

Color: White

Odor: No data available

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: No data available

Boiling point/Boiling range: No data available

Sublimation temperature / start: No data available

Flammability (solid, gas)

No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available Upper: No data available Vapor pressure: N/A Density at 20 °C (68 °F): 7.42 g/cm 3 (61.92 lbs/gal) Relative density No data available. Vapor density N/A Evaporation rate N/A Solubility in Water (H 2, , O): No data available Partition coefficient (n-octanol/water): No data available. Viscosity: Dynamic: N/A Kinematic: N/A

Other information

No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions

No dangerous reactions	Known	٠,	, '	;	1.	, '	;	1.	. '	: '
Conditions to avoid										
No data available		, '			, '			.;	, i	
Incompatible materials:										
Water/moisture		i	111			111				
Oxidizing agents	;	`.		;			;	14,		;
		.:	.:		, :	.:		.:	.:	
SECTION 11. T										
Information on toxicolog			; ' '		:	111	'		: '	
Acute toxicity:				;			;	4,		:
No effects known. LD/LC50 values that are					, i			, i	.;	
No data		:	; , ,	'		: ' '	'		:	
Skin irritation or corrosic		· .		; '	٠,		;	· .		:
May cause irritation										
Eye irritation or corrosio	n:	. '	. '		.'	.'		.'	.'	
May cause irritation										
Sensitization:	'		;			: ' '			:	
No sensitizing effects kr	nown.			; '			:	4.		:
Germ cell mutagenicity:										
No effects known.		·			, ;	.:				
Carcinogenicity:										
No classification data or	n carcin	ogenic pr	operties	of this	material i	s availa	ble fror	n the EPA	, IARC,	'
NȚP, OSḤA or ACGIH.	:	4.		; '			;	4,		: '
Reproductive toxicity:		,				,				
No effects known.	,	, '	, '	•	, '	. '	•	.:	.'	
Specific target organ sy	stem to	xicity - rep	peated (exposul	re:	: ' '				
No effects known.		;			;			i		

Specific target organ system toxicity - single exposure:

No effects known.	; '	1		;		, , ,		٠,,		;
Aspiration hazard:										
No effects known.				, ,		.;				
Subacute to chronic to:	xicity:									
No effects known.Addi	tional to	xicologic	cal inforr	nation:		:"			111	
To the best of our know	vledge	the acute	and ch	ronic to	oxicity of	this subs	tance i	s not full	y known.	: '
		.;;	.1	1 1	.:	.;;				
SECTION 12. E										
Toxicity			: ' '			: "			:''	
Aquatic toxicity:	;	1	. '	;	1.		;	٠.,		;
No data available			.:		.:	,:		.:	,;	
Persistence and degra										
No data available			: ' '		:	: "		1		
Bioaccumulative poten										
No data available	:	''		;	٠.		1	',	, '	:
Mobility in soil			. :		. :	.:		.;		
No data available										
Additional ecological in	ıformati	on:	: ' '		:	: ' '		1	111	
Do not allow material to	o be rel	eased to	the env	ironme	nt withou	ut official	permits	S. ,	,,,,	:
Do not allow undiluted	•	•	•		•					•
systems.			.:			.;		.1	.;	
Avoid transfer into the										
Results of PBT and vP	vB asse	essment	: ' '	'		:"	'		111	
PBT:	; '	1.		; '	٠.,		;	٠,		: '
N/A		:	:		:		1 1		:	
vPvB:			. '	,		.'	,		.'	,
N/A : ::	'	:	: ' '	'	:	: "		:	; • •	
Other adverse effects										
No data available	; '	٠.,	, '	; '	10		; '	14.		: '

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Consult official	regulation	ns to er	sure prop	er disp	osal.	;	'	
Uncleaned pack	kagings:	;	4.		; '	4.		:
Recommendation	on:					.:	,	
Disposal must b	oe made a	accordi	ng to offic	ial regu	ılations	•	, '	,
			1	111	'	:	111	'
SECTION	14. 11	KAN	SPUR	LINE	-ORI	WATIO	IN .	:
UN-Number	.;		.:	.:	1 1	.:	.:	
DOT, ADN, IME								
N/A				: ' '		;		'
UN proper shipp	ping nam	е						
DOT, ADN, IME	OG, IATA		··.		;	'·,	.''	:'
N/A			.1	.:		.:	,;	
Transport hazaı	rd class(e	es)						
DOT, ADR, ADI	N, IMDG,	IATA	:	: ' '		;	: ' '	
Class			4	, 1	, 1		, '	, '
N/A								
Packing group			.1	. ;	1 1	.:	, ;	
DOT, IMDG, IA								
Environmental I	nazards:	'	:	: ' '	'		: ' '	'
N/A		;	4.		;		, '	; '
Special precaut	ions for u	ser						
N/A			.;	. ;		.:	, ;	
Transport in bul	k accordi	ng to A	nnex II of	MARP	OL73/7	78 and the	IBC Co	ode
N/A	,		;	,		:	,	
Transport/Addit	ional info	rmation	ni '	. '	; '	٠.,		:'

No

SECTION 15. REGULATORY INFORMATION

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

N/A

Hazard pictograms

N/A

Signal word

N/A

Hazard statements

N/A

National regulations

All components of this product are listed in the U.S. Environmental Protection Agency Toxic

Substances Control Act Chemical substance Inventory.

All components of this product are listed on the Canadian Domestic Substances List (DSL).

SARA Section 313 (specific toxic chemical listings)

Substance is not listed.

California Proposition 65

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Prop 65 - Developmental toxicity

Substance is not listed.

Prop 65 - Developmental toxicity, female

Substance is not listed.

Prop 65 - Developmental toxicity, male

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

SECTION 16. OTHER INFORMATIONSafety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is

believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.