

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

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1. PF	RODUCT AND COMPANY IDE	NTIFICATION			14			14	
1.1Pi	oduct identifiers								
	Product name Brand	: Lutetium(III) sulfat	te	: ¹		, , ,			
	CAS-No.	: 14986-89-1					:		
1.2	Relevant identified uses of th	ne substance or mixture and	l uses advi	sed agaiı	nst			,	
	Identified uses	: Laboratory chemicals, Mai	nufacture of	substand	ces				
1.3	Details of the supplier of the	safety data sheet	· .			· .			
	Company	Stanford Advanced Materials 23661 Birtcher Dr, Lake Forest, CA 92630 USA		÷	• • • •		:	• • •	
	Telephone Fax	: +1 (949) 407-8904 : +1 (949) 812-6690	···.			11.			· · .
1.4	Emergency telephone number	er							
14	Emergency Phone #	: +1 (949) 407-8904		111	14	1	: * *	14	1
2. H/	ZARDS IDENTIFICATION								
2.1	Classification of the substan	ce or mixture							
	GHS Classification in acco Skin irritation (Category 2), H Eye irritation (Category 2A), I Specific target organ toxicity	315 H319	· · · ·		em, H33	5	:		···.
	For the full text of the H-State	ements mentioned in this Sec	ction, see S	Section 10	6.				
2.2	GHS Label elements, includi	ng precautionary statements	S :	111	14		: * *	14	1
	Pictogram Signal word	Warning		i.			;		
	Hazard statement(s) H315 H319 H335	Causes skin irritation. Causes serious eye irrita May cause respiratory irr		;		···,	:		· · ·
^т т.	Precautionary statement(s) P261 P264	Avoid breathing dust/ fun Wash skin thoroughly aft	er handling	J.		/.	:**	14	1
	P271 P280 P302 + P352 P304 + P340	Use only outdoors or in a Wear protective gloves/ IF ON SKIN: Wash with IF INHALED: Remove vio	eye protect	ion/ face ap and w	protectio vater.		osition		
	P305 + P351 + P338	iF INTALED. Remove vice comfortable for breathing IF IN EYES: Rinse caution].						· · .
								Page 1	of 7

		contact lenses, if present and easy to do. Continue rinsing.	
P312		Call a POISON CENTER or doctor/ physician if you feel unwell.	
P321		Specific treatment (see supplemental first aid instructions on this label).	
P332 + P313		If skin irritation occurs: Get medical advice/ attention.	
P337 + P313		If eye irritation persists: Get medical advice/ attention.	
P362		Take off contaminated clothing and wash before reuse.	
P403 + P233		Store in a well-ventilated place. Keep container tightly closed.	
P405		Store locked up.	
P501	1.0	Dispose of contents/ container to an approved waste disposal plant.	1.1

2.3Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1Substances

Formula Molecular Weight CAS-No. EC-No.	: Lu2O12S4 : 670.19 g/mol : 14986-89-1 : 239-074-6		:		· · ·	:
Hazardous components				· ·		
Component		Classifica	ation		Cond	centration
Dilutetium(3+) trisulphate						
			2; Eye Irri E 3; H315,	-		

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

H335

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture Sulphur oxides, lutetium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

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5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

- 6.2 Environmental precautions Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

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. PH	YSICAL AND CHEMICAL PR	OPERTIES								
.1	Information on basic physic	al and chemical prop	erties							
1	a) Appearance	Form: solid							,	
	b) Odour	no data available								
	c) Odour Threshold	no data available								
	d) pH	no data available					:			
	e) Melting point/freezing	no data available								
	point				1					
	 f) Initial boiling point and boiling range 	no data available								
	g) Flash point	not applicable		11.			11.			
	h) Evapouration rate	no data available								
	i) Flammability (solid, gas)									
	j) Upper/lower	no data available	14	1		14			14	
	flammability or									
	explosive limits	no data available			:	н 1. т.				
	k) Vapour pressurel) Vapour density	no data available								
		no data available								
	m) Relative densityn) Water solubility	no data available								
	o) Partition coefficient: n-	no data available								
	octanol/water		÷.,		: • •			: • •	· · · ·	
	p) Auto-ignition	no data available								
	temperature q) Decomposition	no data available			1					
	temperature	no data available								
	r) Viscosity	no data available								
	s) Explosive properties	no data available								
	t) Oxidizing properties	no data available								
2	Other safety information		1.		111			111		
	no data available									
). S ⁻	FABILITY AND REACTIVITY									
).1	Reactivity									
).2	no data available Chemical stability	···.						:		
).2	Stable under recommended									
).3	-	ctions								
	no data available	1	1		1.1	1	1.1		1	
).4	Conditions to avoid no data available									
).5	Incompatible materials Strong oxidizing agents				:			:		
).6	Hazardous decomposition n	roducts								
	Other decomposition produc	ts - no data available	• •	· · · .	:		11			
	In the event of fire: see section	on 5								
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11. T(OXICOLOG		TION									
11.1	Informatio	on on toxicologic	al effects			· · · .			•••			
	Acute tox no data av	•										
	Dermal: n	o data available										
· .	no data av	vailable	1	,	1.	:		1.	1		· .	
	Skin corr	osion/irritation /ailable		:			: :			1		
	Serious e no data av	e ye damage/eye /ailable	irritation									
	Respirato	o <mark>ry or skin sens</mark> /ailable	itisation			· · ·				:		· · ·
	Germ cel no data av	l mutagenicity /ailable										
	Carcinog	1	1	,	1.	:		1.	:		· ·	1
	IARC:	No componen as probable, p						qual to 0	.1% is ide	ntified		
	ACGIH:	No componen a carcinogen o					r than or e	qual to 0	.1% is ide	ntified as		
	NTP:	No componen a known or an				els greate	r than or e	qual to 0	.1% is ide	ntified as		
۰.	OSHA:	No componen a carcinogen o					r than or e	qual to 0	.1% is ide	ntified as	÷.,	
	Reproduce no data av	ctive toxicity		j.								
	no data av	1										
		arget organ tox - May cause res			ure	· · .			· · · .	-		
	Specific t no data av	a rget organ tox /ailable	icity - repea	ated expo	osure							
· .	Aspiratio no data av		`:	: ' '	1. 1.	1	: * *	1. 1.	`:		1. 1.	
	Additiona	al Information										
		st of our knowled	lge, the cher	nical, phy	ysical, ar	d toxicolo	gical prope	erties hav	/e not bee	n		
	thoroughly	/ investigated.				11. 1			· · .			
2. E	COLOGICA		N									
2.1	Toxicity no data av	vailable			· .			· .	· .			
2.2	Persistene	ce and degradab /ailable	ility									
2.3	Bioaccum	ulative potential /ailable					:			÷.		
2.4	Mobility ir no data av		· · · ·	1		· · .	:		11. 1			•••
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12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

ΙΑΤΑ

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

				CAS-No.	Revision Date	
Dilutetium(3+) trisulphate			11.	14986-89-1		11
New Jersey Right To Know	Compone	ents				
				CAS-No.	Revision Date	
Dilutetium(3+) trisulphate				 14986-89-1		

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation					
H315	Causes skin irritation.					
H319	Causes serious eye irritation.					
H335	May cause respiratory irritation.	· · · .		· · · .		· · · .
Skin Irrit.	Skin irritation					

,	STOT SE Spec	ific target or	gan toxicit	y - single	e exposure	:			:		
	HMIS Rating Health hazard: Chronic Health Hazard: Flammability: Physical Hazard	2 0 0		• •	···.	:		· · .			۰۰,
	NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	2 0 0		14. 1	1	:··	14. 1	1		14. 1	:

Further information

This material safety data sheet is offered solely for your information, consideration, and investigation. Stanford Advanced Materials provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

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