

SAFETY DATA SHEET

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SEC	CTION	1. IC	DENT	IFICA		I						
	uct Name				1.1					1 1 - 1	111	
CAS	#: 12158-	58-6	1	t.		1 1 - 1			н 1 - 1	:		
Relev	ant iden	tified u	ses of	the subs	tance:	Scienti	fic resea	arch and	develo	opment		
Supp	lier detai	ls:										
Stanfo	ord Advar	nced Ma	aterials	i.								
E-ma	il: sales@	samate	erials.co	m		,						
Tel· (9	949) 407-	8904										

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

SECTION 2. HAZARDS IDENTIFICATION

Statements of Hazard: Irritant
Acute Health Hazard: Irritant to eyes, skin, mucous membranes and respiratory system. May be
harmful by ingestion, inhalation or skin absorption.
Chronic Health Hazard: Not Available
HMIS Rating:
H:0 F:0 P:0
NFPA Rating:
H:0 F:0 R:0
To the best of our knowledge, the toxicological properties of this chemical have not been thoroughly
investigated. Use appropriate procedures and precautions to prevent or minimize exposure.

Pictogram:			:		1	:			:			:
Signal Word:												
Warning												
Hazard Stateme												
H302			н н н									
Harmful if swalld	wed.H	31,2,	:		1	:1			:			
Harmful in conta H315	act with	skin.		;			:			:	'	
Causes skin irrit H319	ation.	н н Н		; · ·	· · ·		: • •	н н н	1 1 - 1	1 1 1 1	н н н	
Causes serious	eye irri	tation.		1.1.1	1 1 1	÷		н 1 - 1	1			
H332				1	. '		1			:		
Harmful if inhale	ed.		,		I	,						
H335	; • •									;**		
May cause respi	iratory	irritatior	۱.									
Precautionary S	tateme	nt(s):	:		1	1		н 1 — 1	:			:
P261												
Avoid breathing	dust/ fu	ume/ ga	is/ mist/ va	apors/ s	spray.							
P280	: • •				1 1		:**	н н н		:**	н н н	
Wear protective	gloves	/protect	ive clothir	ng/eye	protect	ion/face	protectio	n.	. '			
P301+P312			,		1 1	,						
IF SWALLOWEI	D: Call	a POIS	ON									
CENTER or doc			-									
P302+P352			н 1 1.		1 1					: * *		
IF ON SKIN: Wa	ash with	n plenty	of soap a	ind wat	er.	:			:			:
P304+P340					ı							
IF INHALED: Re												
P305+P351+P3	38											
IF IN EYES: Rin												
easy to do. Cont	tinue rii	nsing.				, ¹			:			÷

P332+P313

If skin irritation occurs: Get medical advice/ attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:			 e ⁿ	 	1		· · ·
Cesium zirconate Synonyms:	 	:			1 I		
Not Available CAS Number:	 		 			111	
12158-58-6			1	 	1 ¹		

SECTION 4. FIRST AID MEASURES

Eye Contact:											
Flush eyes with											iti
on persists, see	k medi	cal atte	ention.			1 - 1 1					. '
Skin Contact:											
Wash skin with	soap a	nd wate	er. If irrita	ation pers	sists, s	eek medi	ical atter	ition.		: * *	
Ingestion:											
Do not induce v											
Inhalation:										:	. '
Move to a fresh	air en	/ironme	ent. Conta	act a phy	/sician	if breathi	ng beco	mes dif	ficult.		
· · · ·	111					н 1 1.	111			111	
SECTION								1			

Flash Point:						
Not Available		 	 			
Explosion Limits:						
Lower: Not Availab	le		 н н н		 : The second sec	

Upper: Not Available		:						:		
Autoignition:										
Not Available										
Extinguishing Media:										
Carbon dioxide, dry che	mical p	owder, al	cohol-re	esistant	foam or v	vater sp	oray.			
Protective Equipment:		:					н 1 — 1	:		
Wear self-contained res	pirator	and fully p	orotecti	ve impe	ervious sui	it.				,
Specific Hazards:	.'			. '	1	1	.'		:	
May emit hazardous fun	nes une	der fire co	ndition	S. , ,						
							1			

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Protection:

Wear a self-contained breathing apparatus, rubber boots and gloves, and disposable coveralls.

Dispose of coveralls after use.

Keep unprotected persons away.

Environmental Protection:

Keep spills out of sewers and bodies of water. Dike and contain the spill with inert material. Absorb

sand, vermiculite or diatomite. Transfer material to a container for disposal or recovery. Ventilate area

and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

Handling:

Avoid breathing dust, vapor, mist or gas. Avoid contact with skin and eyes. Avoid prolonged or repeated exposure. Use only in a chemical fume hood. Open and handle container with care. Keep ignition sources away.

Storage:

Store in a tightly	closed	l conta	iner in a	dry, well	-ventila	ited place.			:		
ensitivities:											
lot Available						н н 1					$\mathcal{A}^{(1)}$
storage Tempe	rature:										
5 – 30 °C				: ' '				1 I 1			
5 – 50 °C											
					, , ,			1 1			
										:	
SECTION	8. E)	(PO	SURE	CON	IIRC	DLS/PE	RSC	NAL	-	,	
PROTECT											
yes:											
											: .
/ear appropriat yewash	te prote	ctive e	yeglass	or chem	ical sate	ety goggle	s. Mak	e sure i	that there	; is an	
									1 - 1 1		$\mathcal{A}^{(1)}$
acility in your vi	cinity.										
kin:	: ' '			: • •			: • •				
/ear imperviou	s glove	s and p	protective	e clothing	g.						
espiratory:			:		, , ,	e ¹			i'		
lse a NIOSH a	pproved	d respii	ator whe	en expos	ure lim	its are exc	eeded	or if irri	tation or	other	
ymptoms			1	,	ı				1		
re experienced	l.										
						1 1 - 1					
											:
SECTION											
	v . i i										
ppearance:											
lot Available											

Not Available		 	 			 	111	
Odor:								
Not Available			 	:		 1		
Melting Point:	-			н н 1	}	н н Н		
Not Available								
Boiling Point:	111	 н 1 - 1	 1 - 1 1			 		
Not Available			 	i i i		 :		

pH Value:												
Not Available Density:				;		н н 1				1		
Not Available												
Refractive Index, n	20D:		1 1	: • •	,				1 1 1			
Not Available								н 1 — 1	i.			;
Viscosity: Not Available				:			1			:		
Solubility in Water: Not Available			н 1 - 1		1 1 1		1 1 1 1	1 I				
		1 1 1				e ^r						: '
Not Available				;			1		н н н	-		
Vapor Density(Air=	:1):											
Not Available		1	н н н		1 1 1		: • •	н н Н			· · ·	
tu at s		н. 1 — 1	:		н 1 — 1	e'		н 1 - 1	:			:
SECTION 10). S1	ΓΑΒ	ILITY A	AND	REA		TΥ			1		
Stability:												
Stable under norm	al tem	peratu	ires and p	ressure	es.	1 1 - 1		н н н		: • •		
Incompatibility:						a' l						:
Strong oxidizing ag	jents.											
Conditions to Avoid	d:	.'	I.		. '	1 - 1 1	:	. '		1	. '	,
Heat, Flame, Sparl	ks, oth	er ign	ition sourc	es								
Hazardous Decom	positic	n Pro	ducts: Ce	sium ox	kides, Z	irconium o	oxides					
				1 1 1								:

SECTION 11. TOXICOLOGICAL INFORMATION

RTECS Reference: Not Available	н н н		 		 		;	
Target Organs:		1	 	i'	 	:		 1

· · · ·			1 I						,
Not Available		: 	e.	 			 :		
Toxicity Data:									
Not Available					1				
Skin corrosion/iri	ritation	:							
Not Available				 1			 	; · ·	
Serious eye dam	nage/ir	ritation:		 н 1 — 1			 e l'		
Not Available Carcinogenicity:			1 1 1		1 - 1 1	:	 		
Not Available		1 - 1 1		 			 	1 1 1 1	

SECTION 12. ECOLOGICAL INFORMATION

Not Available

SECTION 13. DISPOSAL CONSIDERATIONS

Contact a licensed professional waste disposal service. Dispose in a manner consistent with federal, state and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION DOT: Not Regulated IATA: Not Regulated

IMDG: Not Regulated

SECTION 15. REGULATORY INFORMATION

United States:

Toxic Substance Control Act (TSCA): Listed

Superfund Amendments and Reauthorization Act (SARA 302): Not listed

			,						
Superfund Amendments and R	eauthoriz	ation A	ct (SAF	RA 311/31	2); Not	listed			
Superfund Amendments and R	eauthoriza	ation A	ct (SAF	RA 313): N	lot liste	d			
European Union:	1 I			1 I					
European Inventory of Existing	Chemical								
(EINECS): No.235-284-7	1 1 - 1		1	4 4 - 4	1	1			
Hazard Codes: Not Available			1 1 1			1 1 1	e ⁿ	 н 1 — 1	
Risk Statements: Not Available) 			н н н					
Safety Statements: Not Availab	ole								
Canada								 	
Canadian Domestic Substance									
Canadian Non-Domestic Subst	ances Lis	t (NDS	L): Liste	ed			: ¹	 	

SECTION 16. OTHER INFORMATION

Safety 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.