

SAFETY DATA SHEET

1 1			1 				н 1 - 1	111	Date	Access	ed: 25/08	3/202:
:	1			1			1		Dat	e Revise	ed: 02/11	/2022
		:	- 14. 14.	÷.		1. 1.	1		14			÷.,
SEC	TION	1. ID	ENT	IFICA	ΓΙΟΝ							
1		111	1		: • •	1		111	1		111	÷.,
) Sulfate T	-							
CAS #	#: 7446-3 1	1-3										
Relev	ant identi	ified us	ses of t	the subst	ance: S	Scienti	fic resea	rch and	develo	opment		÷.,
Suppl	lier detail	s:										
Stanfo	ord Advan	ced Ma	terials			·			·			
E-mail	l: sales@s	samate	rials.co	em i			1 1			1 1		
Tel: (9	949) 407-8	3904					`:			· .		
Addre	ss: 23661	Birtche	er Dr., l	_ake Fore	st, CA 🤅	92630	U.S.A.					
192		1						÷.,			1	1
Classi GHS0	ification of	the su	bstance	RDS II	re in∶ac	cordan	ce with 2	9 CFR 1	910 (O	SHA HC	S) (:
Eye Ir	rit. 2A H3	19 Cau	ses ser	ious eye i	rritatior	۱.						
	ds not oth				,		1 1	ı				
No da	ta availab	le		1		:		, , ,				
GHS I	abel elem	ents	1. 1.	1	1	÷.,	1	÷.,	÷.,	÷.,		÷.,
				g precautio								
Hazar	d pictogra	ims	·			·			1			÷
GHS0				· .								

				1						
Signal word							· .			
Warning										
Hazard statements					1					
H315 Causes skin irritation.										
H319 Causes serious					1			1		1
eye irritation.							1	. :		
Precautionary statements P280	4.						1.	;		÷.
Wear protective gloves/prote	ective		·			·	. :	111	1	
clothing/eye protection/face		P264								
Wash thoroughly after handl	ling.				, , ,					
P305+P351+P338 IF IN EYI	ES: Rinse c		1.			1.			1. 1.	1
autiously with water for seve	eral minutes	. Remo	ove con	tact lens	es, if pre	sent ar	id easy t	o do. Coi	ntinue	
rinsing.		: * *	·			·			·	
P362	1				ı					
Take off contaminated clothi		sh befoi	re reus	е.	1 1 1	;				
P321		1	1. 1.		1	1. 1.	1		14	1
Specific treatment (see on the	nis label).									
P332+P313			·		111	1. J.		1.11	1.0	
If skin irritation occurs								. :		
: Get medical advice/attentic	on.									
P337+P313	1				÷.,	· · .	1		11	
If eye irritation persists:										
Get medical advice/attention	1.		·	, , ,		'			1	
P302+P352							· .			
IF ON SKIN: Wash with plen	ity of water.		I.	1		1	1			
WHMIS classification		' ,	',	с. С.	· ,	<u>'</u> ,	' .	÷.	1.	
D2B - Toxic material causing	g other toxic	effects	S			1				,
Classification system										
HMIS ratings (scale 0-4)							1			

				1.1.1								
(Hazardous Ma	aterials I	dentific	ation Sy:	stem)		1			· .	. :		
Health (acute e	effects) =	= 1										
Flammability =	0		1.			4,	1	14				
Physical Hazar Other hazards		·		;••	1	, , ,	1 - 1 - 1 1	1		:		
Results of PBT	and vP	vB ass	essment	, , ,		1			· :	, , ,	-	
PBT:	÷.	14. 14.	1.	÷.	14. 14.	1	ł,	14. 1	4,	÷.,	14. 14.	1
vPvB: N/A		'			1		1 () ()	1			1	
												1

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	: • •	1			1		: * *	1		111	1.1	
CAS No. / Substa												
7446-31-3 Zircon						:			1		:	
Concentration:	1			÷.,		1	١,	14	1	1		
≤100%												
Identification num	nber(s)	-		; • •	1. 		; • •	1. 		111	1 1	
EC number:	1 1 1	-	6		:	1	. :	1	6	1 1 - 1		
238-694-4	1	· .		:,	·		1	1. 1.	1	1		

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.

					1 1 1					
In case of eye contact:										
Rinse opened eye for seve		under								
running water. Consult a p	hysician.		14			14	1.		14	÷.
If swallowed:										
Seek medical treatment.			1. I.			1			1	
Information for doctor			1							1
Most important symptoms	and effects,	both acu	ute and	delayed						
Causes skin irritation.		· .	1		<u>'</u> ,	1	· ,		<u>'</u> .	
Causes serious eye irritatio	on.		1			1			·	,
Indication of any immediat										
No data available			1				1			1
									· .	
					`					
SECTION 5. FIRE Extinguishing media	EFIGHT	ING M	1			· :		;	1 1	
		ING M	1	SURES		·				
Extinguishing media	nts	; 				unding	fire.			
Extinguishing media Suitable extinguishing age	nts Use fire-figh	ting mea	asures t	that suit th		unding	fire.	: . : . :		1: 1:
Extinguishing media Suitable extinguishing age Product is not flammable.	nts Use fire-figh om the subst	ting mea tance or r	isures t mixture	that suit th	ne surroi	-	fire.			
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in	nts Use fire-figh om the subst n a fire, the f	ting mea tance or r following	nsures t mixture can be	that suit th e e released	ne surroi	·				
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in Sulfur oxides (SOx) Zirconium oxide	nts Use fire-figh om the subst n a fire, the f	ting mea ance or r following	nsures t mixture can be	that suit th e e released	ne surroi	ч., Н				
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in Sulfur oxides (SOx) Zirconium oxide	nts Use fire-figh om the subst n a fire, the f	ting mea ance or r following	nsures t mixture can be	that suit th e e released	ne surroi	ч., Н				
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in Sulfur oxides (SOx) Zirconium oxide	nts Use fire-figh om the subst n a fire, the f	iting mea tance or r following	asures t mixture can be	that suit th e e released	ne surroi					
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in Sulfur oxides (SOx) Zirconium oxide Advice for firefighters	nts Use fire-figh om the subst n a fire, the f	iting mea tance or r following	asures t mixture can be	that suit th e e released	ne surroi					
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved in Sulfur oxides (SOx) Zirconium oxide Advice for firefighters Protective equipment:	nts Use fire-figh om the subst n a fire, the f	iting mea tance or r following	asures t mixture can be	that suit th e e released	ne surroi					

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 product to enter o	drains, se	wage s	ystems	, or othe	r water c	ourses			11	:
Methods and materials for con			•							
Pick up mechanically.	, , ,			1 1	111	1 1		1.1	1	
Prevention of secondary haza	rds;			1						1
No special measures required		1		1		14. 14.	t,		1. 1.	;
Reference to other sections										
See Section 7 for information of	on safe ha	andling	·			·			·	
See Section 8 for information										
on personal protection equipm	ient.			1						
See Section 13 for disposal in	formation	1	·	1				÷.	÷.,	:

SECTION 7. HANDLING AND STORAGE		1 		: · ·	1	
Handling		-	1			1
Precautions for safe handlingKeep container tightly sealed.	1	1. 1.		÷.,		÷.,
Store in cool, dry place in tightly closed containers.						
Ensure good ventilation at the workplace.		1 		: * *	1 1	
Information about protection against explosions and fires:						
The product is not flammable						
Conditions for safe storage, including any incompatibilities	1	· .				1.
Requirements to be met by storerooms and receptacles:						
No special requirements.		·		; • •	1	
Information about storage in one common storage facility:	1				-	1
Store away from oxidizing agents.						
Further information about storage conditions:		' ,	÷.	· .		· · ·
Keep container tightly sealed.		·			·	
Store in cool, dry conditions			1 1			
in well-sealed containers.				, , ,	1	1

1 1										
Specific end use(s)					· .		1	4	. :	
No data available										
	14						14			1
SECTION 8. E	XPOS	SURE	CON	TRC	DLS/P	ERSC	NAL	-		1
PROTECTION		· .			`: :			1		
Additional information	about de	esign of	technica	l syste	ms:		· .	:		
Properly operating che	emical fu	me hoo	d design	ed for l	nazardou					
face velocity of at leas	st 100 fee	et per mi	inute.	·			·			·
Control parameters										
Components with limit	t values t	hat requ	uire moni	toring a	at the wo	orkplace:	1	1		-
None.		1.		۰.	1		۰.		1	
Additional Occupation	al Expos	ure Lim	it Values	for rela	ated mat	erials or	possibl	e hazard	ls during	
processing:	1		: * *	·		111			111	1
14644-61-2 Zirconium	•	e			· .		1			:
PEL (USA)	:	÷					1	i		1
Long-term value: 5 mg	g/m	1.				1.	1	1		14
3										
as Zr	1.1						1 		111	1
REL (USA)							1	1		
Short-term value: 10 r	ng/m									
3				· · ,				1		
Long-term value: 5 mg	g/m									
3		1	1			1				1 1
as Zr		`: :			`: :		1	1		-
TLV (USA)	· .	:		· .	1		· .	;	1	
Short-term value: 10 r		·		,			,	ı		
3	1			·			·			·
Long-term value: 5 mg	g/m									
3					1	1 1 - 1		1		

		1	1 1 1		1				1 1 1	· · ·	
as Zr											
EL (Canada) Sh	ort-term value	e: 10 mg/r	n								
3			1				· · .		:		
Long-term value	: 5 mg/m										
3				·			·	, , ,		1	
as Zr	.: :	1	1	-	1		}	` :			
Additional inform	nation:		;		:		· .	;	:	· .	
No data			,		,	,	1	ı			,
Exposure contro	bls			·			·			·	
Personal protec	tive equipmer	nt									
Follow typical pr	otective and l	nygienic p	oractices	for ha	ndling ch	emicals.		1			
Keep away from	foodstuffs, b	everages	and fee	d.	1	1	1. 1.	1	1		1
Remove all soile	ed and contan	ninated cl	othing in	nmedia	itely.						
Wash hands be	fore breaks ar	nd at the e	end;of w	ork,Av	oid conta	ict with th	ne eyes	and skin.	111	1	
Maintain an erge			_								
Breathing equip	ment:		1 1	1	1		:	1			1
Use suitable res	pirator when	hi	÷.,	1.	1		1. 1.		1	14	Ξ.
gh concentratior	ns are presen	t.									
Recommended	filter device fo	or short te	rm use:	1. J.		111	·	1 1 1	: ' '	1	
Use a respirator	with type N9	5 (USA) o	or PE (El	N 143)	cartridge	es as a ba	ackup t	o engineer	ring cor	ntrols.	۰.
Risk assessmer	it should be p	erformed	to deter	mine if	air-purify	/ing resp	irators	are approp	oriate. C	Dnly	
use equipment t	ested and ap	proved un	ider app	ropriate	e govern	ment sta	ndards	-	1	14	1
Protection of ha											
Impervious glov	es			1. I. I.	1 1		·			1	
Inspect gloves p	rior to use.							`: :			
Suitability of glo by	ves should be			-					-	-	1
manufacturer.											
Eye protection:				1.1	, , ,		1 	н н н	; · · ·	1	
Safety glasses		· .									

				1 1					1 1			
Body _I	protection:		:	1							:	
Protec	tive work o	clothin	g									
14				1	1	1	1.	1	1	1	14	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties Appearance: Form: Crystalline powder 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:

	· · ·					1 1 1			111		
No data available.					1						1
Explosion limits:											
Lower:	· .		· .			4,	¹ н.	1.	1	14	
No data available							·				
Upper:						,					
No data available		1	, , ,		1	, , ,		1			
Vapor pressure:N/A	· .		1	· .			· .	1		÷.,	:
Density at 20 °C (68 °F)	:	,		,		,	ł			,	
3.22 g/cm	·			·			·			·	
3											
(26.871 lbs/gal)											
Relative density	· .		1				· .			14	1
No data available.											
Vapor density	·	, , ,	: • •	·			·			1	
N/A	;						;	1			
Evaporation rate		·					,			ı	
N/A ^a a ^a a	1		1	1.			1.	1		14	÷.
Solubility in / Miscibility											
Water at 18 °C (64 °F):	·			1 		; · · ·	`		111	1 1	
525 g/l					1						1
Partition coefficient (n-o											
No data available.	· · .								1	14	
Viscosity:											
Dynamic:							·			1 	
N/A					1			1			1
Kinematic:	۰.						۰,	:	:,	·	:
N/A		t.	i.	,			ı			,	
Other information	·			·		111	·	ı		·	
No data available								1 1			
			, ,								

				· · ·			· · ·			· · ·	
SECTION 10. S	STAB	ILITY	AND	RE	ACTIV	ITY		1			1
Reactivity	1.		1	÷.,		1	1. 1.	÷.	1		:
No data available											
Chemical stability	1.1			1		: ' '	1		: **	1.1	
Stable under recomme	nded sto	orage cor	nditions		· .			· .		1	
Thermal decompositior											
Decomposition will not	occur if	used and	d stored	laccor	ding to sp	oecificati	ons.	1.	1		÷.,
Possibility of hazardous	s reactio	ons									
Reacts with strong oxic	lizing ag	jents		1	н 1 - 1	111	1		111	1.1	
Conditions to avoid	:										1
No data available											
Incompatible materials:		' .	۰,	۰,		· .		<u>'</u> .		· ·	
Oxidizing agents											
Hazardous decomposit	ion proc	lucts:									
Sulfur oxides (SOx)	1							1			1
Zirconium oxide		1.		1.		÷.,		÷.	Ξ.	1. 1.	1
SECTION 11. 1	ΟΧΙΟ	COLO	GICA		IFORM	ЛАТІС	ON		; <i></i>	1	
Information on toxicolo	gical eff	ects		:	1		1			:	
Acute toxicity:	1. 1.		1	۰.			۰.			1. 1.	:
The following RTECS s	statemer	nt/statem	ents ref	er to th	ne anhydr	ous con	npound	:			
The Registry of Toxic E	Effects o	f Chemic	al Subs	tances	(RTECS	5) contai	ns acut	e toxicity	data for	this	
substance.			,		1						
LD/LC50 values that ar											:
No data	1. 1.		÷.,			1	14		1	14	:
Skin irritation or corrosi											
Causes skin irritation.E	ye irrita	tion or co	rrosion	·		: ' '	1		: ' '	1.1	

Causes serious eye irritation.

Sensitization:				1		1			:
No sensitizing effects kn	iown.								
Germ cell mutagenicity:		1		1.		<u>''</u>	1.		
The following RTECS st	atement/stat	ements ref	fer to th	ne anhyd	rous con	npound	:		
The Registry of Toxic Ef	fects of Cher	nical Subs	stances	(RTECS	6) contair	ns muta	ation data	a for this	
substance.	4 A	, , ,		1			1		
Carcinogenicity: ACGIH A4: Not classifia	ble as a hum			nadequat			:		1. 1.
which to classify the age	ent in terms c	f its carcin	ogenic	ity in hun	nans and	d/or ani	mals.		
Reproductive toxicity:			0,			·			·
The following RTECS st	atement/stat	ements ref	fer to th	ne anhydi	rous con	npound	<u>.</u> ':		
The Registry of Toxic Ef						•			
(RTECS) contains repro	1	1		1		· .	· .	· .	
Specific target organ sys						·			
No effects known.		·		1 1			1 1		
Specific target organ sys	stem toxicity	- single ex	posure):		1	1		
		-				· .		1	÷.,
Aspiration hazard:									
No effects known.			·			1			·
Subacute to chronic toxi	city.								
No effects known.				1					
Additional toxicological i	nformation:			1	1	14. 14.	÷.,	1	1. 1.
To the best of our knowl	edge the acu	ite and chi	ronic to	oxicity of t	this subs	tance i	s not full	y known.	
Carcinogenic categories	·		'	1		1	, , ,	1.1.1	1
OSHA-Ca (Occupationa		ealth Admi	nistrati	on)				1	1
Substance is not listed.									

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:										· .
No data available										
Persistence and degrad	ability						1		1	
No data available										
Bioaccumulative potenti	al		·			·			·	
No data available							1			
Mobility in soil		;		1	1	· .	:	:		
No data available		,	,	,		,	ı			
Additional ecological info	ormation:		·			·			·	
Do not allow product to	reach groun	dwater, wa	ater cou	rses, or	sewage	system	S.			
Danger to drinking wate	r if even sma	all quantitie	es leak	into the g	ground.					
Avoid transfer into the e	nvironment.		1. 1.	1		1. 1.	1		1. 1.	:
Results of PBT and vPv	B assessme	nt								
PBT:			·			1		111	1	
N/A vPvB:	1 îr		}	` :		1	1	. :	1	1
N/A						1.			1. 1.	:
Other adverse effects										
No data available				н 1 - 1	1 1 1 1	1			1 1	,
						1			:	
SECTION 13. D	ISPOSA		ISID	ERAT	IONS		1.		1. 1.	
Waste treatment method										
Recommendation			·			'			1	
Consult official regulatio	ns to ensure	proper di	spoşal.							1
Uncleaned packagings:			· .			· .	:		· .	
Recommendation:										
Disposal must be made	according to	o official re	gulatior	IS .	111	1			`	
	1									

		,								
SECTION 14. TRA	NSPO		IFOF	RMAT	ION	÷	`:		1	
UN-Number		1	1.		1	1. 1.	1		1. 1.	÷.
DOT, ADN, IMDG, IATA										
N/A		: • •	1			1			1	
UN proper shipping name DOT, ADR, ADN, IMDG, IA			}	' 8	. :	1	1	. :		1
N/A		1	1.		1.	1. 1.	1		1.	1
Transport hazard class(es)										
DÖT, ADR, ADN, İMDG, IA	TA				111	1. i	н 1 — 1	111	1	
Class		, , ,	;				`:		1	`:
N/A Packing group	1	÷.,	1.	4,	1.		١.	1	1	:,
DOT, ADR, IMDG, IATA		; * *	1		; <i></i>	1	1 1 1	;	'	
Environmental hazards:							1			
N/A Special precautions for use		1	14. 1	1	4	14. 191	1	:	14. 14.	:,
N/A			·						·	
Transport in bulk according										
N/A							1			1
Transport/Additional information	ation:			1	1	·	1		1. 1.	1
DOT										
Hazardous substance:		: • •	1		: • •	1		111	1	
5000 lbs, 2270 kg Marine Pollutant (DOT):	: :		;	1 8		:	·:		1	`:
No		1	1. 1.	1		14. 14.			1. 1.	1

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regula	tions/le	egislatio	on specif	ic for the	substa	nce or m	nixture		
GHS GHS label elements, including pre-									
Hazard pictograms				1.					:
GHS07									
Signal word					1 			1 	
Warning					1	1			1
Hazard statements			:	:		:			:
H315 Causes skin irritation.	,	ï	ı					,	
H319 Causes serious eye irritation.		·			·			·	
Precautionary statements									
P280Wear protective gloves/protective	, , ,		1		1	1			
clothing/eye protection/face protection.	1	1. 1.	1	÷.,	1. 1.			1. 1.	:
P264									
Wash thoroughly after handling.		·			1			1	
P305+P351+P338 IF IN EYES: Rinse ca	autious	ly with	water for	several	minute	s. Remo	ve conta	ct	
enses, if present and easy to do. Contir	nue rins	sing.	1		1	:			:
P362		1. 1.	1	1.	÷.,	1.			;
Take off contaminated clothing and was	h befoi	re reuse	Э.						
P321		1. J.		1.1.1	1 1			1	,
Specific treatment (see on this label).							. :		
P332+P313									
If skin irritation occurs	1	11.	1		1.	1			
Get medical advice/attention.									
P337+P313		·			'			1	
If eye irritation persists:					1				
Get medical advice/attention.	,								
P302+P352		· .	' .			· .	1.		
IF ON SKIN: Wash with plenty of water.		1			1				
National regulations			1 1	,		1 1			

All components of this product are listed	on the	Canac	lian Dom	nestic Su	bstance	es List (F)SL)	
SARA Section 313 (specific toxic chemic	1	· .				-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1. 1.
Substance is not listed.		0,						
California Proposition 65		1		111	1		111	1
Prop 65 - Chemicals known to cause car	ncer		1					
Substance is not listed.								
Prop 65 - Developmental toxicity								
Substance is not listed.			,					
Prop 65 - Developmental toxicity, female				,				
Substance is not listed.			1			1		
Prop 65 - Developmental toxicity, male	1	·			·		1	·
Substance is not listed.								
Information about limitation of use:	; • •	·		111	·		111	·
For use only by technically qualified indiv	viduals							
Other regulations, limitations and prohibi	itive re	gulatior	าร					
Substance of Very High Concern (SVHC	c) acco	rding to	the RE	ACH Reç	gulation	s (EC) N	lo. 1907/	2006.
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	to Artic	le 67 a	nd A	;**	1		; · ·	·
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Substance is not listed. The conditions of restrictions according to nnex XVII of the Regulation (EC) No 190 market and use must be observed.								
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The conditions of restrictions according t nnex XVII of the Regulation (EC) No 190 market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (r)7/2006 equirin	ວິ (REA g Autho	CH) for t	he manu for use)	Ifacturir	ng, placir	ng on the	• • • •

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.

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