

SAFETY DATA SHEET

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SECTION											
Product Name				;**	'		;**	'		: ' '	'
CAS #: 1314-9	_										
Relevant iden		sos of t	ho eube	tanco: S	Scionti	fic rosoa	rch and	dovol	onmont		
		Sesjoit	ile subs			lic iesea		ueven	opinent		
Supplier deta Stanford Adva		terials									
E-mail: sales@					1 		; · ·	1.1	1.1.1		1
Tel: (949) 407	-8904					1 - 1 1			1 - 1 1		
Address: 2366	1 Birtche	er Dr., L	ake For	est, CA 9	92630	U.S.A.					
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SECTION Classification of Classification a The substance hazardous to h Classification a R31: Contact v	I 2. H of the su according is not c nealth or according with acid	AZAI bstance g to Reg lassified the env g to Diro s libera	RDS I e or mixtu gulation d as vironmer ective 67 tes toxic	DENT ure (EC) No nt accord 7/548/EE gas.	1272/2 ing to t	2008 he CLP r irective 1	N egulatio 999/45/f	n. EC			
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SECTION Classification of Classification a The substance hazardous to h Classification a R31: Contact w Information co	I 2. H of the su according is not c health or according with acid ncerning	AZAI bstance g to Reg lassified the env g to Dire s libera	RDS I e or mixtu gulation d as vironmer ective 67 tes toxic ilar haza	DENT ure (EC) No at accord 7/548/EE gas. ards for h	TIFIC 1272/2 ing to t C or D uman a	2008 the CLP r irective 1	N egulatio 999/45/I onment:	n. EC			

	· · ·		1 1 1			111					
Label elements											
Labelling according to l	Regula	tion (EC) No 127	2/2008							
N/A					н н н						
Hazard pictograms											
N/A	1 			·			·				
Signal word	н 1 - 1		}	1	н н н						
N/A			· .	:	i.	· .				1	
Hazard statements	,		ł	,		,	I		ł		
N/A	1					111	·			1	
WHMIS classificationN											
Classification system				1							
HMIS ratings (scale 0-4	4)	н 1 — 1									
(Hazardous Materials I	dentific	ation Sy	stem)								
HEALTH	1		111	·		111	1		111	·	
FIRE			:								
REACTIVITY	1 1	1	i	1 1	,	i		,	ŝ		
1		, , ,	14			14	1		14		
0											
1'	'			'			1		111	'	
Health (acute effects) =	= 1,					1					
Flammability = 0											
Physical Hazard = 1			· .	1		ʻ.			14. 14.		
Other hazards											
Results of PBT and vP	vB ass	essment							,		
PBT:	н 1 — 1	н н н		1 1 1							
N/A		: :	۰.								
vPvB:							-				
N/A							1.1			1	
:. :: :											

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		1 1 - 1	1. 1.		1 1 1			н 1 — 1			
CAS No. / Substance N	ame:										
1314-98-3 Zinc sulfide	1			·			·		: * *	1	
Identification number(s) EC number: 215-251-3	:		:			:	1 1 1				
	:		· .	1		· .	:		· .		

SECTION 4. FIRST AID MEASURES

Description of first aid m	easure	S	-		1 I		н 1. т.			
If inhaled: Supply patient with fresh	air If	not breath	ina pro	ovide ar	tificial res	piration	Keep	patient wa	arm	:
						prication	inteep	patient		
Seek immediate medical	advice	2.		'			1		;	÷
Immediately wash with s	oap an	d water; r	inse the	oroughl	y.			н н н		
Seek immediate medical	advice	9.,		-		1.			1. 1.	
In case of eye contact:										
Rinse opened eye for se	veral n	ninutes un	der run	ining w	ater. Cons	ult a ph	nysiciar	1. , , ,		·
If swallowed:										
Seek medical treatment.										
Information for doctor						1. 1.	1		1. 1.	
Most important symptom	s and	effects, bc	oth acut	e and c	delayed					
No data available	·		1 1 1 1	'			1			·
Indication of any immedi No data available	ate me	dical atter	ntion ar	nd spec	ial treatme	ent nee	ded		;	

SECTION 5. FIREFIGHTING MEASURES

Extinguishing mediaSuitable extinguishing agents

Product is not flammable. Use fire-fightin	g mea	sures t	hat suit t	he surro	unding	fire.	-		
Special hazards arising from the substan	ce or I	mixture	•	· .			1. 1.		
If this product is involved in a fire, the foll	owing	can be	release	d:	1			i	
Sulfur oxides (SOx)									
Metal oxide fume	ı			ł					
Advice for firefighters		н 1 — 1	1 - 1 1			1 I			
Protective equipment:				1					
Wear self-contained respirator.									
Wear fully protective impervious suit.		1			1			5	
			1 I 1	1		1 I			,
SECTION 6. ACCIDENTAL		ELEA	SE M	EASL	JRE	S			
Personal precautions, protective equipme	ent an	d emer	gency pr	ocedure	S		<u>, , , , , , , , , , , , , , , , , , , </u>		
Mount respiratory protective device.								·	
Use personal protective equipment. Keep	o unpr	otected	l persons	s away.					
Ensure adequate ventilation		, , ,						1	
Environmental precautions:	1. 1.	1	н 1. т.	14					
Do not allow material to be released to th	ne envi	ironme	nt withou	it official	permits	6.			
Do not allow product to enter drains, sew	age s	ystems	, or othe	r water c	ourses		111	1	
Do not allow material to penetrate the gro	ound c	or soil.					:		
Methods and materials for containment a	ind cle	anup:							
Pick up mechanically.	1		н 1. т.	1.		н 1. т.	14		
Prevention of secondary hazards:									
No special measures required.		1			1. j.			`	
Reference to other sections	-	н 1 - 1							
See Section 7 for information on safe har	ndling								
See Section 8 for information on persona	al prote	ection e	quipmer	nt.	1	1 I		;	
See Section 13 for disposal information.							:		

				·							
SECTION 7	. HAND	LING	AND	STO	RAGE	1	1 1 1	· · ·	:		
Handling			1.			1. 1.			14. 14.		
Precautions for s	afe handling										
Keep container ti	ghtly sealed.		: • •	1			1		: * *	1	
Store in cool, dry	place in tigh	tly closed	contair	ners.							
Ensure good ven	tilation at the	workplac	ce.		1	,					
Information abou	t protection a	gainst ex	plosion	s and fi	res:	14			14		
The product is no	ot flammable										
Conditions for sa	fe storage, in	cluding a	ny inco	mpatibi	lities	: * *	1		111	1	
Requirements to	be met by st	orerooms	and re	ceptacle	es:						
No special requir Information abou		ne comm	non stor	age fac	ility:		:		÷.,	:	
Do not store toge Store away from	111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 11			1			·			·	
Further information			itions:		· · ·						
Keep container ti	ghtly sealed.				н 1 - 1		;		· .	;	
Store in cool, dry	conditions in										
Specific end use	(s)			·		; • •	5			5	
No data available											
		1 I									

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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes): No data available Eye protection: Safety glasses Body protection: Protective work clothing.			1							
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Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes): No data available Eye protection: Safety glasses										
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Penetration time of glove material (in minutes): No data available Eye protection: Safety glasses					1 I 1			1 - 1 1		
Eye protection: Safety glasses		e material (in m	inutes):	No dat	ta availab	le				
				·			·			·
	Rody protection: Protectiv		.y.							

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms

				·		1	· · ·			· · ·	
Color: White	· · ·		1	1 1 1					;		
Odor: Odorless				:			:	н 1 - 1		:	
Odor threshold: No data	a available.		· ,	1	1 1		:			:	
pH: N/A	·			·							
Melting point/Melting rai						,					
Boiling point/Boiling ran	ge: No dat	a availab	le		1 1			· · ·	:		
Sublimation temperature	e / start: N	o data ay	ailable	Э		· .	:			:	,
Flammability (solid, gas): No data	available		1		1					
Ignition temperature: No	o data avai	lable		·			·			·	
Decomposition tempera	ature: No d										
Autoignition: No data av	/ailable.	1			1		н 1 - 1				
Danger of explosion: No	o data avai	lable.	۰,			1.					
Explosion limits:											
Lower: No data availabl	eUpper: N	o data av	ailabl	ð , ,		: • •	1		:**	1	
Vapor pressure: N/A		1									
Density at 20 °C (68 °F)): 4.1 g/cm					:					
3			` .		1 1 1			н 1 - 1			
(34.215 lbs/gal)											
Relative density: No dat	ta available	Э.		1. 			1		: * *	1 1	
Vapor density: N/A											
Evaporation rate: N/A											
Solubility in / Miscibility	with Water	at 18 °C	(64 °	F): 0.00)69 g/l				1.		
Partition coefficient (n-o		,									
Viscosity:	'			1 			'			1 	
Dynamic: N/A					н н н			· · ·			
Kinematic: N/A				:		· .					
Other information	:			;	н н -		;			;	
No data available	·	. :		·		;••			;••	1	

		ï			i					
SECTION 10. S	TABILI	TY AND	RE		/ITY	1 1 1		;		
Reactivity					1. 1.			1. 1.		
Contact with acids liber	ates toxic g	as.								
Chemical stability	1	111	1		111	1		111	1	
Stable under recommer	nded storag	e conditions	. ,		;					
I nermal decomposition	/ conditions	s to be avoid	ed:							
Decomposition will not	occur if use	d and stored	accor	ding to s	pecificati	ons.	н 1. т.	14		
Possibility of hazardous	reactions									
Reacts with strong oxid	izing agents	S	'		; · ·	1			1	
Contact with acids liber	ates toxic g	as.					н н н			
Conditions to avoid					1					
No data available					· .			· ·		
Incompatible materials:	·		·			·			·	
Oxidizing agents										
Acids		1		1 - 1 1		н 1 - 1	1 I			
Hazardous decomposit	ion products	S:			1. 1.			· .		
Sulfur oxides (SOx)										
Metal oxide fume	·				1 - 1 - 1 1	1			1	
	· · ·	1					1 I 1			
SECTION 11. T	OXICO	LOGICA		IFOR	MATIC	DN				
Information on toxicolog	gical effects									
Acute toxicity:	·	: * *	1			1			1	
The Registry of Toxic E	ffects of Ch	emical Subs	tances	s (RTECS	S) contair	ns acut	e toxicity	data for	this	
substance.		emical Subs								
LD/LC50 values that ar	e relevant fo	or classificati	ion:	1 1 - 1			н 1 - 1	1		
Oral LD30 >2 gm/kg (ra	at)									
Dermal LD50 >2 gm/kg	(rat)	:**	1		1.1.1	1		111	1 	
Skin irritation or corrosi	on: May cau	use irritation		1 I 1		1 1 1	1 I		1	

Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available. EPA-I: Data are inadequate for an assessment of human carcinogenic potential.EPA-II: Inadequate information to access carcinogenic potential. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance. Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

			1			1				1.1	
SECTION 12	. ECOL	OGICA	AĻ IN	IFOR	RMATIC	Ŋ			-	н 1 - 1	
Toxicity Aquatic toxicity:	·. :		<u>'</u> .	1		` .	:		· .	;	
No data available	··· ···			1			·			·	
Persistence and de No data available	gradability							1 - 1 1	:		
Bioaccumulative po	otential	н 1 — 1		1	н н н		1	н 1 - 1		1	
No data available											
Mobility in soil	··· ···			1. 	1.1.1		·		111	1	
No data available			;		· ·	}			;		,

Additional ecological information: Do not allow material to be released to the environment without official permits. Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: N/A vPvB: N/A Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods		1 			1		: • •	1	
Recommendation									
Consult official regulations to e			1	:		1			
Uncleaned packagings:	 1.		н 1 - 1	14		н 1 - 1	14		
Recommendation:									

Disposal must be made according to official regulations.			

			i			i		1		
SECTION 14. TRANSPORT INFORMATION										
UN-Number				- 		 -	- 	 	1	
DOT, ADN, IMDG, IATA		н н н			1 - 1 - 1	-		-		
UN proper shipping nan DOT, ADN, IMDG, IATA		н н н			н н н				:	

N/ATransport hazard class(es) DOT, ADR, ADN, IMDG, IATA Class

				1			1					
N/A					1							
Packing group												
DOT, IMDG, IA	ATA											
N/A												
Environmental			1.1.1	1			1					
N/A												
Special precau N/A	itions for	user	, , ,		;							
Transport in bu	ulk accor	ding to	Annex I	l of MAR	RPOL73	8/78 and	the IBC (Code			·	
N/A												
Transport/Addi	itional inf	formatio	on:									
DOT	÷.,			÷.,						1. 1.		
Marine Polluta	nt (DOT)):										
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		1 1										
SECTION	15. F	REGI							•			
	· .		JLAT	ORY	INFC	ORMA	TION	substa	ince or n	nixture		
Safety, health	and envi	ronmer	JLAT	ORY	INFC egislatio	DRMA	TION			nixture		
Safety, health National regula	and envi ations	ronmer	JLAT Intal regul	ORY	INFC	DRMA	TION	1. 		1.1.1		
Safety, health National regula All components	and envi ations s of this	ronmer product	JLAT Intal regul	ORY lations/le	U.S. E	DRMA	TION	1. 		1.1.1		
SECTION Safety, health National regula All components Substances Co All components	and envi ations s of this p ontrol Ac	ronmer product t Chem	JLAT ntal regul t are liste	ORY lations/le ed in the stance Ir	U.S. E	DRMA on specif nvironme y.	TION ic for the ental Pro	tection	Agency	Toxic		•
Safety, health National regula All components Substances Co All components	and envi ations s of this p ontrol Ac s of this p	ronmer product t Chem product	JLAT Intal regul It are listen ical subs It are liste	ORY lations/le ed in the stance Ir ed on the	U.S. Enventor	DRMA on specif nvironme y.	TION ic for the ental Pro	tection	Agency	Toxic		•
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Substance is not listed.			· · ·						
Prop 65 - Developmental toxicity, r									
Substance is not listed.	÷.,		1 1 - 1						
Information about limitation of use:									
For use only by technically qualifie	d individuals	· · ·			`			1 	
Other regulations, limitations and p	prohibitive reg	gulatior	IS	-		1 I	1		
Substance of Very High Concern (SVHC) accol	rding to	the REAC	CH Reg	ulation	s (EC) No	. 1907/2	2006.	
Substance is not listed.									,
The conditions of restrictions accord	rding to Artic	le 67 ai	nd Annex 2	XVII of	the Reo	gulation (E	EC) No	·	
1907/2006 (REACH) for the manuf	facturing, pla	cing on	the marke	et and ι	use mu	st be obse	erved.		
Substance is not listed.	-		1 I		н 1 - 1				
Annex XIV of the REACH Regulati	ons (requirin	g Autho	orisation fo	or use)			·		
Substance is not listed.									
REACH - Pre-registered substance	es :··				1			1	
Substance is listed.									
Chemical safety assessment:			1 - 1 1						
A Chemical Safety Assessment ha	is not been c	arried o	out.	1.		н 1 — 1	1. 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.