

SAFETY DATA SHEET

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SE	CTION											
Prod	uct Name											
	#: 1313-9				-	· ;	· · .			· · .	.1	· .
	vant iden											
			565 01 1	IIIC SUDSI			nc jesea	ICITATIU	ueven	opment		
	blier detai ord Advar		aterials									
E-ma	ord Advar il: sales@)samate	rials.co	m								. :
Tel: (949) 407-	8904		· · · ·	.:	· :	· · .			· · .	.1	1
	ess: 2366											
SE	CTION	2. H		RDS II	DENT	TIFIC		N				. !
Class	sification c	of the su	bstance	e or mixtu	re		· · · ·			11. 1	.1	1
Class	sification a	accordin	g to Re	gulation (EC) No	1272/2	2008					
GHS	07										ı	
Skin	Irrit, 2 H3´	15 Çaus	es skin	irritation.		1						:
Eye I	rrit. 2A H3	319 Cau	ses ser	ious eye					,			
STO	Г SË 3 Н3	35 May	cause	respirator	y irritati	on.					.1	1
Class	sification a	accordin	g to Dir	ective 67	/548/EE	C or D	irective 1	999/45/E				
Xi; Irr	ritant											
R36/3	37/38: Irrit	ating to	eyes, r	espiratory	∕ systen	n and s	skin.					
Inforr	nation cor	ncerning	g particu	ular hazar	ds for h	uman	and envir	onment:				
· .		1	1.0			· .			1. E		1	1.1

			1	1 1 1					
N/A				.:		··.	.:	· .	· · · .
Hazards not otherwise classified									
No data available									
Label elements									
Labelling according to Regulation	(EC) No 127	72/2008							
The substance is classified and la	beled accord	ding∶to t	he CLP r	egulatior	1. ';	· · ·			· · · .
Hazard pictogramsSignal word									
Warning	r.			I					
Hazard statements		;			1				
H315 Causes skin irritation.			,			,			,
H319 Causes serious eye irritation	٦.	1				11		1	· · · .
H335 May cause respiratory irritat	ion.								
Precautionary statements									
P261 Avoid breathing dust/fume/g	as/mist/vapo	ors/spra	у.	111			111		
P280 Wear protective gloves/prote	ective clothir	ng/eye p	orotection	/face pro	tection				
P305+P351+P338 IF IN EYES: Ri	nse cautiou	sly with	water for	several	minute	s. Remo	ve conta	ct	· · · .
P305+P351+P338 IF IN EYES: Ri lenses, if present and easy to do.									· · · ·
	Continue rin	sing.	¹			¹			
lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up.	Continue rin e person to f	sing. resh air	and keep	o comfor	table fo	or breathi	ing.		
lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up.	Continue rin e person to f	sing. resh air	and keep	o comfor	table fo	or breathi	ing.		
lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up. P501 Dispose of contents/contain national/international regulations.	Continue rin e person to f er in accorda	sing. resh air ance wit	and keep th local/re	o comfor gional/	table fo	or breathi	ing.		
lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up. P501 Dispose of contents/contain	Continue rin e person to f er in accorda	sing. resh air ance wit	and keep th local/re	o comfor gional/	table fo	or breathi	ing.		
 lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up. P501 Dispose of contents/contain national/international regulations. WHMIS classification D2B - Toxic material causing other 	Continue rin e person to f er in accorda	sing. resh air ance wit	and keep th local/re	o comfort gional/	table fo	or breathi	ing.	···· .:.	
lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up. P501 Dispose of contents/contain national/international regulations. WHMIS classification	Continue rin e person to f er in accorda	sing. resh air ance wit	and keep th local/re	o comfort gional/	table fo	or breathi	ing.	···· .:.	
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 lenses, if present and easy to do. P304+P340 IF INHALED: Remove P405 Store locked up. P501 Dispose of contents/contain national/international regulations. WHMIS classification D2B - Toxic material causing othe Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification HEALTH 	Continue rin e person to f er in accorda r toxic effect	sing. resh air ance wit	and keep th local/re	o comfort	table fo	or breathi	ing.		
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N/A		.:		· · .									
vPvB:													
N/A			.:		; • •	.:							
PBT:					ł			,					
Result	s of PBT	and vP	vBass	essment									
Other	hazards			· · .			· · · ·	1	1	11. 1	1		
:	nability = (al Hazaro		.:		111		1 1 1		.1		111	.1	1
lealth	(acute ef	fects) =	= 1	'			' 	1 1					
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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS No. / Substa	ance Na		11. 1	.:	`; `;	Ч.,	.:	, , ,			·:
1313-96-8 Niobiu	um (V) c	oxide		1 1 1			н н н		¹		
Identification nun	nber(s):										
EC number:						н н н				; • •	.1
215-213-6	.1	· .	···.			11. 1	.:	· .	11. 11.	.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. In case of eye contact:

Rinse opened eye for se	everal m	inutes un	der run	ning wa	ater. Cons	ult a ph	nysiciar	1.			
If swallowed: Seek medical treatment											
Information for doctor Most important symptom	ns and e				lelayed	;	.1	н н н	;	3	
No data available		· · .				.:			.:		
Indication of any immed	iate meo	dical atter	ntion ar	nd spec	ial treatme	ent nee	ded				
No data available			,			,					
		н н н			н н н			н н н		.:	
SECTION 5. FIF	REFIC	GHTIN	G M	EASI	URES		1			1	
Extinguishing media			н н н			1 - 1 1			н н н		
Suitable extinguishing a	-										
Product is not flammable	e. Use fi	re-fighting	g meas	ures th	at suit the	surrou	nding fi	re.	: * *	.1	
Special hazards arising If this product is involved		· · .	.1	1	eleased:	1	5	11. 1	1	5	
Metal oxide fume		¹	н н н					¹			
Advice for firefighters											
Protective equipment:	.÷	н н н			1 - 1 1			н н н	: • •	.1	
Wear self-contained res	pirator.	0.			· · .						
Wear fully protective imp	pervious	suit.		ı							
		· . '									

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	· · ·	.1	1
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.	1		
Do not allow product to enter drains, sewage systems, or other water courses.	11	.1	

Do not allow material to penetrate the ground	d or so	il.	.1		· · .			
Methods and materials for containment and								
Ensure adequate ventilation.					'			
Prevention of secondary hazards:								
No special measures required.		1 1 1						
Reference to other sections	1	· · .			· · .			
See Section 7 for information on safe handlin	ng							
See Section 8 for information on personal pr								
See Section 13 for disposal information.						:**	.:	
and the second		· · .	. 1	· .				
SECTION 7. HANDLING AND	D ST	ORAGE						
Handling								
Precautions for safe handling								
Keep container tightly sealed.	1		,	. '	i.	,		,
Store in cool, dry place in tightly closed conta	ainers.	Ensure good	ventila	tion at t	he work	place.		
Information about protection against explosion	ons and	d fires:						
The product is not flammable								
Conditions for safe storage, including any inc	compat	tibilities	; * *		1 1 1	111		
Requirements to be met by storerooms and	recepta	acles:		÷.,		.1	· .	
No special requirements.	,							
Information about storage in one common st	orage	facility:						
Store away from oxidizing agents.								
Further information about storage conditions	:					111		
Keep container tightly sealed.		• • •			· · .			
Store in cool, dry conditions in well-sealed co	ontaine	ers.						
Specific end use(s)								
No data available		1 - 1 1						
na an an an an an an an an			1		· · .	. 1		

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. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. 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. Penetration time of glove material (in minutes) No data available Eye protection:

1 I		i.		1						
Safety glasses	· .	· · .		···.	.:	1	с.,	.1	1	
Body protection:										
Protective work clothing.				· · · `	1					

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SECTION 9. PHYSICAL	AND C				OPEI	RTIES	.:	·	···,
Information on basic physical and che	emical pro	perties							
Appearance:									
Form: Powder or solid in various form	nsColor: W	hite			1				
Odor: Odorless		ı							
Odor threshold: No data available.			11	.1	1				۰۰.
pH: N/A									'
Melting point/Melting range: 1520 °C	(2768 °F)								
Boiling point/Boiling range: No data a	vailable	. :	н н 1		.:	н н 1	: * *		
Sublimation temperature / start: No d	ata availat	ble		,					
Flammability (solid, gas)		1		, '	1	· · ,	. '		· · · ,
No data available.				н н н					'
Ignition temperature: No data availab	le								
Decomposition temperature: No data	available					1 - 1 1	111		
Autoignition: No data available.	.:			.:		· · .			
Danger of explosion: No data availab	le								
Explosion limits:									'
Lower: No data available									
Upper: No data available					1				
Vapor pressure: N/A		· :		.1	`;				··.
Density at 20 °C (68 °F): 4.6 g/cm									
3				,					
(38.387 lbs/gal)		:			1				
Relative density									
No data available.				.1		· · · ·			···,
			1						

		· '			. '		1	. '			. '	
Vapor density				.:		· · .	.:		· · .	.:		
N/A												
Evaporation rate			'			'			· · · ·			'
N/A												
Solubility in Wate	r (H											
2';	.:	`: :	· · ·			· · ·	.:		· · .	.:		· · ·
O): Insoluble			'									
Partition coefficie												
Viscosity:												
Dynamic: N/A												
Kinematic: N/A	.:			.1					· · · ·			···,
Other information	н н н											'
No data available	!											
										: • •		
SECTION 1	0. S	TAB	ILITY	AND	RE	ACTIV	ΊΤΥ		· · .	1	1	۰۰,
Reactivity						¹	н н 1					'
No data available	!											
Chemical stability	,		· · ·			1 1 1	:			111		
Stable under reco	ommen	ided st	orage co	nditions.	· .		.:	1			4	
Thermal decompo	osition	/ cond	itions to b	be avoid	ed:							
Decomposition w	ill not c	occur if	used an	d stored	accore	ding to sp	ecificati	ons.	'			'
Possibility of haza	ardous	reaction										
Reacts with stron	g oxidi	zing a	gents			н н н				111		
Conditions to avo	id					· · .	.:		· · ·	.:		· · .
No data available												
Incompatible mat				1								
Oxidizing agents	; • •	1			1	1 I	:	1			:	
Hazardous decor	npositi	on pro	ducts:									
Metal oxide fume	.:	1			1		.1		11	,÷	1	· · .

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for components in this product. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information:

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

SECTION 12. ECOLOGICAL INFORMATION Toxicity Aquatic toxicity: No data available Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available Additional ecological information: Do not allow material to be released to the environment without official permits. 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 Recommendation Consult official regulations to ensure proper disposal.

Uncleaned packagings:

											,
Recommendation:		· · .			· · .	.:	1		.:	1	
Disposal must be made	e accore	ding to c	official re	gulatior	าร.						
SECTION 14. T	RAN	ISPO	RT IN	IFOF	RMAT	ION					
UN-Number		· · .			· · .	.1	1	· · · .	.÷		
DOT, ADN, IMDG, IAT	Α										
N/A											
UN proper shipping nar	ne			.:		; • •				.:	
DOT, ADN, IMDG, IAT/	Ą										
N/A		· · · .	.:			.1		11.	.:		
Transport hazard class	(es)	'	н н н	1.1.1							,
DOT, ADR, ADN, IMDO	g, iata										
Class	.1		: ' '	.:	· ·	: ' '		· · ·		, i	
N/A			:			:			.:		
Packing group	1			i			ì			i	
DOT, IMDG, IATA		¹	н н Н			н н н		1.1	1 - 1 1		
N/A											
Environmental hazards	<u>.</u>			. 1		; · · ·			111		
N/A		· · .			· · .	.:	· .	· · .	.:		
Special precautions for	user										
N/A		1.1	1		²			11 ²			
Transport in bulk accor	•										
N/A			1	. '		1			1	. '	
Transport/Additional inf	ormatio	on:			· · · .	.:	1	1947 1947			
DOT											
Marine Pollutant (DOT)											
No	.:	н н н	: · ·	.1	1 - 1 1		.÷			j.	
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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental	regulatio	ons/leg	islation	specific fo	or the s	ubstan	ce or mixt	ure	
National regulations									
All components of this product an	e listed i	n the U	.S. Env	ironmenta	l Prote	ction A	gency To	kic '	.:
Substances Control Act Chemica	al substar	nce Inv	entory.		1	· .		:	
All components of this product ar	re listed c	on the C	Canadia	in Domest	ic Subs	stances	List (DSL	_).	,
SARA Section 313 (specific toxic	chemica	al listing	is)						
Substance is not listed.									
California Proposition 65								: • •	
Prop 65 - Chemicals known to ca	use cano	cer		· · ·	.:		· · .	.:	·
Substance is not listed.									
Prop 65 - Developmental toxicity									
Substance is not listed.				н н н					
Prop 65 - Developmental toxicity					1	,			.'
Prop 65 - Developmental toxicity	, male		`.;	· · · ·			· · .	.:	1
Substance is not listed.									
Information about limitation of us									
For use only by technically qualif	ied indivi	duals.		1 I				:**	.:
Other regulations, limitations and	l prohibiti	ve regu							
Substance of Very High Concern	(SVHC)	accord	ing to t	he REACI	H Regu	lations	(EC) No.	1907/20	006.
Substance is not listed.									
The conditions of restrictions acc	ording to	Article	67 and	I Annex X	VII of th	ne Regi	ulation (E	C) No	
1907/2006 (REACH) for the man	ufacturin	g, placi	ng on t	he market	and us	se must	be obser	ved.	.:
Substance is not listed.				··.	1			1	
Annex XIV of the REACH Regula	ations (re	quiring	Author	isation for	use)				
Substance is not listed.		н н Н							
REACH - Pre-registered substan									
Substance is listed.				1 I			· · ·	; * *	.1
Chemical safety assessment:				11			Ч.,	.:	`:

A Chemical Safety Assessment has not been carried out.

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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