

SAFETY DATA SHEET

14. 14.	5	:	14. 194	5		14	1		Date	Accessed	1: 25/08	3/2023
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_	TION				_							
	uct Name:					1	1	111	1. 1.	1	111	14
CAS	#· 7440_0(ווינטעץ ז- צ		Jianuics				1. J.			1	1
			ses or t	ne subs	tance: a	scienti	nc resea	rch and	aeveid	opment		
	lier detail		toriolo									
E-mai	l: sales@s	samate	rials co	m		14.	1 1		14	·	: * *	14
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	ss: 23661											
			1 - 1 1									
SEC	CTION	2. H		RDS I	DENT	IFIC	ΑΤΙΟΙ	N	14	1	: ' '	
Classi	ification of	the su	bstance	e or mixtu	ure	· :		1	1		1	
Classi	ification a	ccording	g to Re	gulation	(EC) _, No	1272/2	2008					
GHS0	2 Flame			. '	. '		. '	. '				
Pyr. S	ol. 1 H250) Catch	es fire	spontane	eously if	expose	ed to air.			·		
1.	eat. 2 H2		1.									
	-react. 1 l								hich m	av ignite	1	
	aneously.							-				
Classi	ification ad										. '	
F; Hig	hly flamm	able										
1.1	1. A.									isly flamm		
	nation con											
mom	Iation con	cerning	partict	nar na∠a	IUS IOF N	umana		onment:				

	· · · ·					· · .	· · ·		1.	
N/A		1	· .		1	1		1		
Hazards not otherwise class										
No data available.										
Label elements										
Labelling according to Regu	lation (EC)) No 127	2/2008	<u><u></u></u>						
The substance is classified	and labele	d accord	ling to t	he CLP r	egulatior	ו. :		1		
Hazard pictogramsGHS02					:					
Signal word		,	,	,		1		,		
Danger	5		· .	·		· .	·	;	· .	·
Hazard statements			ı							
H250 Catches fire spontane	eously if exp	posed to	air.		1	1		1		
H252 Self-heating in large c	luantities; r	nay cato	h fire.		.:			.1		
H260 In contact with water i	releases fla	ammable	gases	which m	ay ignite	sponta	neously.			
Precautionary statements	1	: * *	· .	1	111		1	: * *	1. 1.	·
P210 Keep away from heat/	/sparks/ope	en flame	s/hot sı	urfaces. N		-				
P222 Do not allow contact v	vith air.			. '						
P231+P232 Handle under in	nert gas. Pi	rotect fro	omimoi	sture.	.:			.1		
P370+P378 In case of fire:	Use for ext	inction: (CO2, sa	and, extir	nguishing	powd	er.			
P422 Store contents under	inert gas.			1		1	1		14	'
P501 Dispose of contents/c	ontainer in	accorda	ince wit	th local/re	egional/	5		·		
national/international regula			,	,						
WHMIS classification										
B6 - Reactive flammable ma	aterial									
Classification system			· · .	'			1		11	· · ·
HMIS ratings (scale 0-4)		1	`;		1			1		
(Hazardous Materials Identi	fication Sys	stem)		1	,					
HEALTH	. '	. '	,				. '	. '		. '
FIRE			ı				1			
REACTIVITY		,	<u>'</u> ,			1		,	1.	
1 ⁽¹⁾		1 1			1	1		1 1		

		1		. '						. '		
N/A.		·	1					1. 	1		1.	
vPvB:												
N/A.	1			·		۰.,	1		·	1		·
PBT:		. '		. '	. '	i.		. '				. '
Results	s of PBT	and vP	vBass	essment:								
Other h	nazards	1 1	1		1	1		1	1	$\mathcal{A}^{(1)}$	1	
Physic	al Hazaro	1 = 2	· · .	`		· · .	1 			1	111	·
	ability = 3											
Health	(acute ef	fects) =	= 1									
2												
3,		·	· .		1			5			1	
	1 					· · .	· · ·				1 1 1	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances										
		1	с. Тал						1 	
7440-00-8 Neody	/mium p	owder		1 1 1						
Identification nun	nber(s):									
EC number:					1			1	; • •	14. 1
231-109-3	1					1.1	`:		1	·

SECTION 4. FIRST AID MEASURES

Description of fi	rst aid n	neasure	es			1	111	14	1		
If inhaled:	'	`		1			1			1	
Supply fresh air	. If not b	oreathir	ng, provid	e artifici	al resp	iration. K	eep pat	ient wa	rm.	;	
Seek immediate	medica	al advic	e.In case	of skin	contac	t:					
Immediately wa	sh with	soap a	nd water;	rinse th	norough	nly.		· .	5		
Seek immediate	medica	al advic	e.		,			,			
In case of eye c	ontact:			·			·		11	1.0	

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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

· · ·									
Wear protective equipment. Keep unpro	tected	person	s away.	·			·	4	
Ensure adequate ventilation		ł	,					,	
Keep away from ignition sources	. :								. '
Environmental precautions:									
Do not allow material to be released to t									· .
Do not allow product to reach sewage s	ystem o	or any v	water cour	se.			1		. '
Do not allow to penetrate the ground/so	il.						:		
Methods and material for containment a	nd clea					1			
Keep away from ignition sources.		· .	1	; • •	· .	1			
Ensure adequate ventilation.		,							
Do not flush with water or aqueous clear	nsing a	gents		'	1		1	1	. '
Prevention of secondary hazards:	.;			. 1	н н н		.:		
Keep away from ignition sources.									
Reference to other sections				: • •		1			۰.
See Section 7 for information on safe ha	andling			·			·		
See Section 8 for information on person	al prote	ection e	equipment.		1	. '			
See Section 13 for disposal information.		1 I 1			н н Н		.÷	н н Н	. '
SECTION 7. HANDLING A						1			· .
SECTION 7. HANDLING A					1		1	`:	
Handling									
Precautions for safe handling		,		,	i.		. '	1	. '
Handle under dry protective gas.			1			1			
Keep container tightly sealed.									
Store in cool, dry place in tightly closed	contain	ers.		1 1	1		1.1	1	. '
Ensure adequate ventilation.	. :						.:		
Information about protection against exp									
Protect from humidity and water.		۰.	1		1.	1		÷.,	· .
Protect against electrostatic charges.									
Substance/product is self ignitable.				'	1		1	1	. '

	1			1		· · ·				
Conditions for safe storage, inclu	uding any	incom	patibilit	ies	1			1		
Storage										
Requirements to be met by store	erooms ar	nd rece	ptacles	51						. '
No special requirements.										
Information about storage in one	e common	storag	e facili	ty:		14. 1	1		1	·
Store away from air.		'	`: `:		1			1 1	`: `:	. • *
Store away from water/moisture					.:					
Store away from oxidizing agent			1							
Store away from halogens.	·		·	·		1.	·		·	·
Further information about storag	je conditio	ons:								
Store under dry inert gas.		'	`;		1	`:		`		. • *
This product is moisture sensitiv	e.	.:			.:			.:		
This product is air sensitive.										
Keep container tightly sealed.	1			1		1. 1.	5	; • •	1. 1.	·
Store in cool, dry conditions in w	ell-sealed	l contai								
Protect from humidity and water	-				1 			`		. '
Specific end use(s)			1 I					.1		. • *
No information available.										

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:

The product does not contain any relevant quantities of materials with critical values that should be monitored at the workplace.

Additional information:

No data

Exposure controls

Personal protective equipment

Follow typical general protective and industrial hygiene measures 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.

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.

Penetration time of glove material (in minutes) No data available. Eye protection: Safety glasses Full face protection. Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

			1.		1.1.1					
Appearance:		1			·	· .		1	· .	
Form: Powder										
Color: gray to black		. '	1		. '			. '		. '
Odor: Odorless	5. S.		1							
Odor threshold: No data a		·	· .			· .			· .	
pH: N/A.		1			1			1		
Melting point/range: 1024	°C (1875 °F)	:			:			:		. '
Boiling point/range: 3027	°C (5481 °F)	,	1	,	ł		i i			
Sublimation temperature	/ start: No data	availat	ole.	·		·	1		·	·
Flash point: N/A										
Flammability (solid, gas):		1 			·			·		
Contact with water liberate	es extremely fl	ammab	ole gas	es.	.1			1	· · ·	
Ignition temperature: No c	lata available.									
Decomposition temperatu	ire: No data av	ailable.				÷.,	1	: • •		÷.,
Auto igniting: Spontaneou	isly flammable	in air.	· .		·			·	· .	
Danger of explosion: No c	lata available.			1		1	1		1	1
Explosion limits:					.1			.1		
Lower: No data available.										
Upper: No data available.		: • •		1			1	: • •	1.	'
Vapor pressure: N/A.		1			·	· .		·	· .	
Density at 20 °C (68 °F): 7		_	-							
Relative density		. '	1	. '	. '		. '	. '	,	. '
No data available.							1			
Vapor density	· , · · ·									
N/A.		1.1			1			1		. 1
Evaporation rate					.:			.:		
N/A.										
Solubility in Water (H	1		·	5		÷.,	1	: * *	1.	·
2										
O):		·			·			·		

Contact with wa	iter rele	ases fl	ammable	e gases	· .		1	· .	. 1	·	· .	
Partition coeffici	ient (n-o	octanol	/water):	No data	availab	le.						
Viscosity:	. 1			.1	1 1		.1				1 I	. '
Dynamic: N/A. Kinematic: N/A.	;···	1.	1		1. 1.	1	;···	1. 1.			1. 1.	÷.
Other information	onNo in	formati	on availa	able.	· ;		1	1		·	1	. '
	;			;								
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SECTION								·	1		·	۰.
Reactivity												
In contact with v	vater re	eleases	flamma	ble gase	s which	n may igr	nite spon	taneou	sly.	1	1	. '
Catches fire spo	ontanec	ously if	exposed	to air.	1 I 1							
Chemical stabili	ty											
Stable under re	comme	nded s	torage c	onditions	5.	1	111	1.	1		1. 1.	۰.
Thermal decom	positior	n / cond	ditions to						1			
Decomposition	will not	occur	if used a			ding to s			. '		1	
Possibility of ha	zardou	s react	ions							.1		. '
Spontaneously	flamma	ble in a	air.									
Reacts with stro	ong oxic	dizing a	igents			1		1. 1.	1		1. 1.	۰.
Contact with wa	iter, rele	ases fl	ammable	e gases	· .		·	· .	. '	·		
Conditions to av		I	,									
No information a	availabl	le.					.:					. '
Incompatible ma												
Oxidizing agent	S		1			1	111		1		1	· · ·
Halogens	1			·			1			1		. '
Air Water/moisture	.:						, i	1 - 1 1	, '	, :		.*
Hazardous deco	omposit	tion pro	oducts:			·						
Hydrogen												
Neodymium oxi	de	1		1	`;		1	1		1 1	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 this substance. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Irritant to skin and mucous membranes. Eye irritation or corrosion: Irritating effect. Sensitization: No sensitizing effects known. Germ cell mutagenicity: N/A Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: N/A Specific target organ system toxicity - repeated exposure: N/A Specific target organ system toxicity - single exposure: N/AAspiration hazard: N/A Subacute to chronic toxicity: N/A Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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SECTION 12. EC	OLOGI		NFO	RMA	ΓΙΟΝ			1		.'
Toxicity		.1								.'
Aquatic toxicity:										
No information available.	en de la composition de la composition Composition de la composition de la comp	111		1	111	Ч.,	1	111	1. 1.	1.
Persistence and degradab	oility:	1			·			5	· .	
No information available.										
Bioaccumulative potential:	· · ·		1			1			1	. '
No information available.			· .	·		· .	·		· .	
Mobility in soil:	· , · · ·	,			'			,		
No information available.	e de la composition d				1			1		. '
Additional ecological infor	mation:	.:			.:					
General notes:										
Do not allow material to be	e released to	o the env	vironme	nt withou	ut official	permit	S		·	۰.
Do not allow undiluted pro	duct or large	e quantiti	ies to re	each grou	und wate	er, wate	r course	or sewa	ge	
system.		1 			1			1		.'
Avoid transfer into the env	rironment.	.:				н н н				
Results of PBT and vPvB	assessment									
PBT:	en de la		1.	1	111	1.	1	111	1. 1.	۰.
N/A.	:				·			·	· .	
vPvB:	i i'		i			i			ì	
N/A.		.:	1 1			1				. '
Other adverse effects										
No information available.	· . · · · · ·	111		1	111	1. 1.	1	111	14. 1	1.
· · · · · · · · · · · · · · · · · · ·										

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation:

Consult state, local or national regulations to ensure proper disposal.

1												
Uncleaned packa	agings:			·			·			5	· .	
Recommendation	n:											
Disposal must be	e made	accor	ding to of	ficial reo	gulatior	าร.						
			·	1 1 1 1	1. 1.	1 1 1	1.1.1	- 14 14	·	1.1.1	1. 1.	·
SECTION	14. T	RAN	ISPOI		FOR	RMAT	ION			1.	· :	
UN-Number DOT, IMDG, IAT				.1		et.	.1	н н н		.1		
UN1383		1. 1.	5	: • •	1. 1.	1 	; • •	1. 1.	1	111		·
UN proper shippi DOT	-			1			·			·		
Pyrophoric metal												
IMDG, IATAPYR								,		.'	,	. '
Transport hazard					-	-	-	· .	·	111	· .	·
DOT												
Class 4.2 Substances I	iablo to	chont		ombuct	ion	. '	1					
Label		spon		ombusi	.011.	,				,	,	ı
	: • •	1. 1.	1		1. 1.	1	111	14	1	111	1. 1.	۰
Class	·	· .		·	· .		·			5	· .	
4.2 (S4) Substan			-									
Label												
4.2 IMDG, IATA	:**	1.	1	; · ·	1.	1	111		1	111	1.	·
Class	1	· .		·	· :		·			1	1	
4.2 Substances I Label	iable to	o spont	aneous c	ombust	ion.			1 I 1		.:		
4.2 Packing group			'			1. 			·		· .	·
DOT, IMDG, IAT	A	1		1			1. 	`: :		1.	1	

		· ·	· · ·		· · ·						· · ·	
$\mathbf{L}_{i} = [\mathbf{p}^{i}]$	1	· .			· .					5	· :	
Environmental ha												
N/A.					1							. * *
Special precaution	ons for	user										
Warning: Substa	nces lia	able to	spontaneo	ous cor	nbustio	n			1 		1	1
EMS Number: F-	G,S-M	1		·	`: :		1	`: 		1	1	
Segregation grou	lps		. 1	;			1			:		
Powdered metals		,	i i	i i	,	,	,	ł	,			
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code												
N/A.												
Transport/Additic	onal info	ormatic	on:	1 			1	1		1		. *
DOT		· · ·		.:	1 I			н н н		.1	н н 1	
Marine Pollutant	(DOT):											
No		1.	1. 	1 1 1 1		1		1.	1		1. 1.	•
UN "Model Regu	lation":											
UN1383, Pyroph	oric me	etals, n	.o.s. (Neo	dymium	n powde	er), 4.2, I	·			·		. * *

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. **REACH - Pre-registered substances** Substance is listed. Chemical safety assessment: 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.