

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Neodymium Metal

CAS #: 7440-00-8

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

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

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Hazards not otherwise classified

No data available

Label elements

Labelling according to Regulation (EC) No 1272/2008

N/A

Hazard pictograms

	1	1		,	1		'	,		1	
Signal word											
N/A	. * *					***				.**	
Hazard statemer											
N/Å	: ' '		'	!''					'	:	
WHMIS classifica	ation				1 1						
Not controlled											
Classification sys											
HMIS ratings (sc	ale 0-4	!) , ,		111						: "	
(Hazardous Mate	erials lo	dentific	ation Sys	tem)HE	ALTH						
FIRE										٠٠,	
REACTIVITY											: .
1											
1.	: ' '		'	111					"	: "	
1											
Health (acute eff	ects) =	1			,		'',	,			
Flammability = 1	. * *								٠٠,		
Physical Hazard	= 1										
Other hazards	: ' '		'				111			: "	
Results of PBT a	nd vPv	/B asse	essment								
PBT:	,	,			,		,	,		,	,
N/A	. * *					***					
vPvB:											
N/A	:''		'			'	111			:	
		,	111		1 1			1. 1		***	
OFOTION (7 ji 4 P	OCIT!	~ N I // I	VEO:		10N 4	SKI I K	IODE	DIEV	TÔ
SECTION 3	5. U(JWIP	05111	UN/II	NFUI	KIVIAI	ION (זו אכ	NGKE	DIEN	15
Substances											

N/A

CAS No. / Substance Name:

7440-00-8 Neodymium

identification number(s).					• • •				
EC number:									
231-109-3	'',	, ' '		٠٠.				.''	
	"	111		"	111		"	111	
SECTION 4. FIRST	AID I	MEAS	URE	S		. :			
Description of first aid measure	es								
General information	,	,		,					
No special measures required				'	;**			;**	
If inhaled:									
Seek medical treatment in cas	e of con	nplaints.			• • •			٠٠.	
In case of skin contact:									
Generally the product does no									
In case of eye contact:					; · ·			; * *	
Rinse opened eye for several	minutes	under ru	ınning v	water. If s	symptom	ns persi	st, consu	ılt a doct	or.
If swallowed:		***			• • •				
If symptoms persist consult do	ctor.			• • •	, * *			.**	
Information for doctor									
Most important symptoms and	effects,	both ac	ute and	delayed	111		'	111	
No data available									
Indication of any immediate m									
No data available		.**			.**	: .	٠٠,	.**	
		111			111				
SECTION & EIDEEI									

Extinguishing media

Suitable extinguishing agents

Extinguishing powder. Do not use water.

Special hazards arising from the substance or mixturelf this product is involved in a fire, the following can be released:

Advice for firefighters

Protective equipment:

No special measures required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

Do not allow material to be released to the environment without official permits.

Methods and materials for containment and cleanup:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about stora	ge in o	ne comn	non stora	age fac	ility:				
Store away from haloge									
Further information abo	ut stor	age cond	ditions:		* * ,			***	
Keep container tightly s	ealed.								
Store in cool, dry condit	ions in	well-sea	aled con	tainers.	'			'	; , ,
Specific end use(s)						• • •			
No data available					ο,				
						:::		'	111
SECTION 8. EX	(PO	SURE	CON	ITRO	LS/PI	ERSC	NAL	•	
PROTECTION			٠٠,						
Additional information a	bout d	esign of	technica	ıl syştei	ms:-				
No further data; see see	ction 7.								
Control parameters			111			: "		'	: ' '
Components with limit	/alues	that requ	ire mon	itoring a	at the wo	rkplace:			
Not required.	,			,			,		
Additional information:			. * *			. * *			. ' '
No data									
Exposure controls		'	;**		'	: ' '		"	: ' '
Personal protective equations chemicals.	iipmen	tFollow t	ypical pr	otective	e aṇḍ hyo	gienic pr	actices	for hand	ling
Maintain an ergonomica	ally app	oropriate	working	enviro	nment.	. * *			
Breathing equipment:									
Not required.			: "			: ' '		'	: ' '
Protection of hands:									
Not required.									
Eye protection:		**.	. ' '			. ' '			
Safety glasses									
Body protection:		'	; , ,			: ' '		'	: ' '
Protective work clothing] _ ' '								

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms

Color: Silver grey

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 1024 °C (1875 °F)

Boiling point/Boiling range: 3027 °C (5481 °F)

Sublimation temperature / start: No data available

Flash point: N/A

Flammability (solid, gas)

Product is not flammable.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 7 g/cm

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(58.415 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate								
N/A								
Solubility in Water (H	: .	***				. ' '		
2 O): No data available	• :					:''		
Partition coefficient (n	-octanol	/water):	No data	availab	le.			
Viscosity:								
Dynamic: N/A			.''	, ,				
Kinematic: N/A Other information	• :		111			: * *	• :	
No data available	• :		**.				• :	
1		11		1	111			_
SECTION 10.	STAE	BILITY	AND	RE	ACTI\	/IT _Y		
Reactivity								
No data available							1	
Chemical stability	: .		. * *					
Stable under recomm	ended s	torage c	onditions	5.				
Thermal decomposition	on / cond	ditions to	be avoid	ded:		111		
Decomposition will no	t occur i	f used a	nd stored	d accor	ding to s	pecificati	ons.	
Possibility of hazardo	us react	ions						
Powder: contact with	water lib	erates e	xtremely	flamm	able gas	es.		
Conditions to avoid								
No data available	. ;	'	!''		'	; , ,		
Incompatible material	s: ' '					٠٠,		
Oxidizing agents Halogens	:.		,0					
Air					'			
Hazardous decompos				,	•	•	,	
Metal oxide fume								

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: No irritant effect. Eye irritation or corrosion: No irritant effect. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properti es of this material is available fr om 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: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: Lanthanons can cause delayed blood clotting leading to hemorrhages.

Exposure may also lead to sensitivity to heat, itching, increased awareness of odor and taste,

and liver damage.										
Subacute to chronic tox	cicity:									
No effects known.			. ' '		**,	. ' '			.**	
Additional toxicological this substance is not ful										
Carcinogenic categorie	S , ,									
OSHA-Ca (Occupational	al Safet	ty & Health	n Admir	nistratio	n)					
Substance is not listed			.**			. * *		**	.**	
11 - 21 - 21		'				: ' '		'		
SECTION 12. E	COL	OGIC	AL II	NFOF	RMATI	ON				
Toxicity										
Aquatic toxicity:		11,	, ' '		***	, ' '			. ' '	
No data available										
Persistence and degrad	dability									
No data available				1 1		• •				
Bioaccumulative potent	ial	0								
No data available										
Mobility in soil		'	111		'	: ' '		'	: ' '	
No data available										
Additional ecological inf	formation	on:							**.	
Do not allow material to	b'e, rel	eased to th	ne, envi	ronmen	t without o	official p	ermits.		. * *	: .
Do not allow undiluted բ	oroduct	or large q	uantitie	es to rea	ach groun	dwater,	water	courses, o	r sewag	е
systems.		'	: ' '		"	: ' '		'	: ' '	
Avoid transfer into the e	enyiron	ment.								
Results of PBT and vPv	/B asse	essment	,	,			,			,
PBT:			, ' '			. * *			.**	: .
N/A										
vPvB:			: ' '	1 1				'	: ' '	
N/A				1 1						

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Not a hazardous material for transportation.

UN-Number

DOT, IMDG, IATA

None

UN proper shipping name

DOT, IMDG, IATA

None

Transport hazard class(es)

DOT, ADR, IMDG, IATA

ClassNone

Packing group

DOT, IMDG, IATA

None

Environmental hazards:

N/A

Special precautions for user

N/A

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N/A

Transport/Additional information:

Not dangerous according to the above specifications.

DOT

Marine Pollutant (DOT):

No

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.

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.

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.