

# SAFETY DATA SHEET

1	11. 1	;**					· · · .	111	Date	Accesse	ed: 25/08	3/2023
	· · .			· · · .		1 I 1		· · ·	Dat	e Revise	ed: 05/11	1/2022
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SEC		I 1. ID	ENT	IFICA								
						1			1		111	1
	uct Nam											
CAS	#: 7440-0	66-6		· · ·			· · · .					
Relev	ant iden	tified us	ses of t	he subs	stance: S	Scienti	fic resea	rch and	l develo	opment		:
Supp	lier deta	ils:										
Stanfo	ord Adva	nced Ma	aterials			:	· · .		1			:
E-mai	il: sales@	) samate	rials.co	m		1				,		
Tel: (	949) 407	-8904		· · .			· · ·					
Addre	ess: 2366	1 Birtch	er Dr., l	_ake For	est, CA s	92630	U.S.A.					
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#### SECTION 2. HAZARDS IDENTIFICATION

Classification of	the su	bstanc	e or mixt	ure	1 - 1 1	· · · .	· · ·				
Classification ac	cordin	g to Re	gulation	(EC) No	1272/2	2008	. '	. '	;		
The substance i	s not c	lassifie	d as haz	ardous to	o healtl						
regulation.					1		; • •			; • •	
Hazards not oth											
No data availabl	е	н н н	· · .	1 - 1 1	1 1	· · .			11. 1	1 - 1 1	
Label elements									1		
Labelling accord	ling to	Regula	ition (EC	) No 127	2/2008						
N/A			· · .	; • •		· · .			· · .		
Hazard pictogra											

		1	11			11	1 1 1		11.		· · · .
N/A			· · · .		1 I	· · .				 	· · .
Signal word											
N/A										1	1
Hazard statement											
N/A	: • •	1	· · ·	; * *	1			1		 1	···.
WHMIS classificat	tion		· · · .		н н н	· · .				 	•••.
Not controlled Classification syst	em	;	1.		;	1.		:	1,	;	1.
HMIS ratings (sca	le 0-4)	<b>)</b>	· · .	:**	÷.,	•••		1	· · .	 1	···.
(Hazardous Mater											
Flammability = 0					1					 	···,
Physical Hazard =	= <sup>0</sup>	:			:	1		ť		:	÷.,
Other hazards											
Results of PBT an	nd vPv	B asse	essment	1 1 1 1	1	· · · .			· · .	1	· · .
PBT: N/A										 	
vPvB: N/A		1	···.								· · .
											÷.,

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances			· · · .	 н н 1	· · .	 	· · .	 	
CAS No. / Subs	tance N	ame:							
7440-66-6 Zinc		:		ť	1	÷	÷.		
Identification nu	mber(s)	:							
EC number: 231			11. 1		· · · .	 1			

### SECTION 4. FIRST AID MEASURES

Description of first aid measures					
General information				1.1	
-	 	 	 		
No special measures required.	1				

If inhaled:										
Seek medical treatment	in case of com	plaints.								
In case of skin contact:			:			÷.	1.		÷	
Generally the product de										
In case of eye contact:			1	11.	: * *	1	11		1	
Rinse opened eye for se	everal minutes	under ru	inning v	vater. If s	ymptom	s persi	st, consu	lt a docto	or.	
If swallowed:		. *	. •	:		. '			. '	
If symptoms persist con								i.		
Information for doctor	1									
Most important sympton	ns and effects,	both act	ute and	delayed						
No data available				11. 1			11			
Indication of any immed	liate medical at	ention a	and spe	cial treatr	nent ne	eded				
No data available										
		1 1 1							; .	

SECTION 5. FIRE	EFIC	GHTIN	GM	EAS	URES	 				
Extinguishing media	:				1				:	;
Suitable extinguishing age	ents									
Special powder for metal f	ires. D	Do not us	e watei	r.			11. 1	; • •		
For safety reasons unsuita	able e	xtinguishi	ng age	nts		 				
Water										
Special hazards arising fro	om the	e substan	ce or m	nixture	4.				:	1
If this product is involved in	n a fire	e, the foll	owing o	can be	released:					
Metal oxide fume		· · .			1 I.			1.1.1		
Advice for firefighters		· · ·		1 - 1 1		 н н н	· · .		н н н	
Protective equipment: No special measures requ		:		;	1	 ;	1		:	:

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipme	ent and	l emer	gency proc	edures	3				
Not required.									
Environmental precautions:			1,						
Do not allow material to be released to th	ne envi	ronmer	nt without o	official					
Methods and materials for containment a	ind clea	anup:	· · · .		1				
Pick up mechanically.		· ·	· · .	1 I		19. 19		1 - 1 1	
Prevention of secondary hazards:			1	. '	. '				
No special measures required.		ı	ı						
Reference to other sections	; • •	1	· · .	; • •	1				
See Section 7 for information on safe ha									
See Section 8 for information on persona	al prote	ction e	quipment.						
See Section 13 for disposal information.		1	1,						:
						· · .	:**	1	
SECTION 7. HANDLING A	ND 3	510	KA(jF						

Handling		11.									
Precautions for sa	afe handling	1					:			÷.	:
Keep container tiç	ghtly sealed.										
Store in cool, dry	place in tight	tly closed	contair	ners.		111			111	1	
Information about	protection a	gainst ex	plosion	s and fi	res:						
No special measu	ires required										
Conditions for saf	e storage, in	cluding a	ny inco	mpatibi	lities					t.	:
Requirements to l No special require	be met by sto ements.	orerooms	and red	ceptacl	es:	; • •	1	м.,	;	1	
Information about	storage in o	ne comm	ion stora	age fac	ility:						
Not required. Further informatic	on about stor			l."	ι.	, · <sup>•</sup>	;	1		:	;
Keep container tig Store in cool, dry		· · ·			· · ,			· · .		1.	
Specific end use(	s)	· · .			· · · ·		н н н	11			

								1	
No data available	· · · · ·		н н н	· · · .			· · .		
at the set a						i.	1		
SECTION 8. EXP	OSURE	CON	TRO	LS/PI	ERSC	NAL			
PROTECTION		1.1.1	1			1.	· · .	1.1.1	:
Additional information about	ut design of	technica	l syster	ns:	1 - 1 1		· · .	1 - 1 - 1	
No further data; see section	n 7.								:
Control parameters									
Components with limit valu	es that requ	uire mon	itoring a	at the wo	rkplace:		· · .	; • •	:
None.									
Additional information: No	data						· · · .		
Exposure controls									
Personal protective equipm	nent								
Follow typical protective an	d hygienic	practices	for ha	ndling ch	emicals.				:
Maintain an ergonomically	appropriate	working	enviro	nment.		1 1			
Breathing equipment: Not r	equired.				,		ı		
Protection of hands: Not re	quired.		:	1		1	1,		:
Penetration time of glove m	naterial (in r	ninutes):	No dat	a availat	ole				
Eye protection: Safety glas	sesBody pr	otection	Protec	tive work	clothing	J. <sup>1</sup> ,	··	111	:
			1 1			1 1		1 1	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties												
Appearance:				· · · .					1.			
Form: Solid in various forms	· · · ,		· · ·	· · · .						,		
Color: Grey Odor: Odorless	÷.,		i'	÷.		ť	4,	e <sup>r</sup>	ť			
Odor threshold: No data ava				· · .		1	· · .		1			
pH: N/A												
Melting point/Melting range:	419.5 °C	(787 °F)		· · .			11.					

		· · · .	1 1 1		· · .			
Boiling point/Boiling range: 907 °C (1665 °F)		· · .						· · · .
Sublimation temperature / start: No data ava	ilable							
Flammability (solid, gas): No data available.				t.				
Ignition temperature: No data available								
Decomposition temperature: No data availab	ole	· · .	1 - 1 - 1 1			1		· · · ·
Autoignition: No data available.	н н н	· · .			Ч.,			· · · .
Danger of explosion: No data available. Explosion limits:	:	4	, et	;	Ξ.		, , ,	1.
	1	· · .	1 1 1 1		· · .	1 1 1 1	1	··.,
Upper: No data available Vapor pressure: N/A		· · .						· · · .
Density at 20 °C (68 °F): 7.14 g/cm							1	÷.
(59.583 lbs/gal)	÷.,	· · .			· · .			··.
Relative density: No data available.					· · .			
Vapor density: N/A					i.			
Evaporation rate: N/A	:				1		ť	÷.
Solubility in Water (H								
<b>2</b> · · · · · · · · · · · · · · · · · · ·		· · .			11			· · · .
O): Insoluble		· · .						· · · .
Partition coefficient (n-octanol/water): No dat								
Viscosity:							1	÷.
Dynamic: N/A								
Kinematic: N/A		· · .					1	· · .
Other information		· · .	· · ·		· · .			· · .
No data available	:				1		:	1

## SECTION 10. STABILITY AND REACTIVITY

Reactivity

			,	<b>'</b> ,	· · ·	1	1	· · ·			· · ·
No data available		· · .						· · .			···.
Chemical stability											
Stable under recommen	ded st	orage cond	litions.	1							1.
Thermal decomposition	/ condi	tions to be									
Decomposition will not c	occur if	used and	1.1.1	1				11.			•••
stored according to spec	cificatio	ons.		1 1		1 - 1 1	н н 1	с.,			۰.
Possibility of hazardous	reactio	ons									:
No dangerous reactions	knowr			,	t	1		,	1		
Conditions to avoid	1			:			1				
No data available											
Incompatible materials:		· · .					н н н	11. 1	· ·		۰۰,
No data available		1		:						:	1
Hazardous decomposition											
		· · · .			· · · ·			· · · ·	;		··.
SECTION 11. T	OXI	COLOG	SICA		FORM	ΑΤΙΟ	N	11.			· · · .

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: No irritant effect. Eye irritation or corrosion: No irritant effect. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: EPA-I: Data are inadequate for an assessment of human carcinogenic potential. The Registry of Toxic Effects of Chemical Substances (RTECS) contains tumorigenic and/or carc inogenic and/or neoplastic data for this substance.

Reproductive toxicity: No effects known.

Specific target organ sys	tem to	xicity - rep	eated e	exposur	e: No effe	ects kno	wn.	···.		
Specific target organ sys	tem to	xicity - sin	gle exp	osure:	No effects	s known				
Aspiration hazard: No eff	fects kr	iown.					:			al an
Subacute to chronic toxic	city:									
The Registry of Toxic Eff	ects of	Chemica			RTECS) c			le dose to	xicity da	ata
for	н н Н	м.,		1 I	· · .			Ч.		
this substance.										
Additional toxicological in	nformat	tion:								
To the best of our knowle	edge th	e acute a			-			-		
Carcinogenic categories	1	· · ·			· · ·					
OSHA-Ca (Occupational	Safety	& Health	Admini	stratior	<b>)</b>			· · .		
Substance is not listed.		1			1			:		
SECTION 12. E	COL	OGICA	AL IN	FOR	MATIC	ON	1	· · .		1
Toxicity		· · .	н н н		· · .			···.		
Aquatic toxicity:				1						
No data available										
Persistence and degrada	ability	· · .		1	· · .		1	· · .	: • •	
No data available Bioaccumulative potentia	al									
No data available										
Mobility in soil										
No data available		· · .			· · .	1 1 1 1		· · .	; • •	
Additional ecological info	rmatio	n:								
Do not allow material to l	be relea							t.		1
Avoid transfer into the er	vironm	nent.		1			:			ti i
Results of PBT and vPvE	3 asses	sment								
PBT: N/A		· · ·		1	1 I 1				111	
vPvB: N/A	· ·	· · .	1 I 1		· · .	1 1		· · .	1 I	

Other adverse effects			· · ·	· · ·							
No data available											
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SECTION 13. D	ISPO	OSAL	. CON	ISID	ERAT	IONS	1	۰.	:**		
Waste treatment method	s	· · ·	1 - 1 1		· · .			· · .			
Recommendation Consult official regulation							:'	:		÷	:
Uncleaned packagings: Recommendation:											
Disposal must be made	accord	ling to o	fficial ree	gulatior	IS.						
				;			1			;	:
SECTION 14. TI	RAN	ISPO	RT IN	IFOR	MAT	ION	÷.,	•••			
UN-Number DOT, ADN, IMDG, IATA			1 I 1			1 I 1		· · · .			
N/A	:			:					11	e l'	:
UN proper shipping nam											
DOT, ADN, IMDG, IATA	1	· · .		1	11	111	1	11	111	1	
N/A Transport hazard class(e	) (24										
DOT, ADR, ADN, IMDG,	IATA	1			1		1	1.		t.	:
Class											
N/A Packing group											
DOT. IMDG. IATA											
Environmental hazards:	1	11. 1	:	1,			1,	· · · ·	:**	ł,	
Special precautions for u											

N/A			· · .						· · ·				
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code													
N/A											:		
Transport/Additional information:													
DOT		1	· · ·		1	11.		1		; * *	1.		
Marine Pollutan	t (DOT):			1 I 1	1 I 1	· · · ·	1 1	· · ·	··				
No		:			:			t.	4		e la composición de la composicinde la composición de la composición de la composici		

### **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regula	ations/le	gislatio	on specif	ic for the	substa	nce or m	nixture	
National regulations								:
All components of this product are lister	d in the	U.S. Ei	nvironme	ental Prot	ection	Agency	Toxic	
Substances Control Act Chemical subs	tance Ir	ventor	<b>y</b>			· · .	: • •	:
All components of this product are liste	d on the	Canac	lian Dom	nestic Su	bstanc	es List (E	DSL).	
SARA Section 313 (specific toxic chem	ical listi	ngs)	· · ·					
7440-66-6 Zinc		:	1.		ť	1		:
California Proposition 65								
Prop 65 - Chemicals known to cause ca	ancer	1			1	· · .	111	:
Substance is not listed.								
Prop 65 - Developmental toxicity								
Substance is not listed.			÷.		1	1		1
Prop 65 - Developmental toxicity, femal	leSubst	ance is	not liste					
Prop 65 - Developmental toxicity, male					1		111	
Substance is not listed.				1 - 1 1				
Information about limitation of use:			:					
For use only by technically qualified ind	lividuals							
This product is subject to the reporting	requirer	nents c	of section	n 313 of t	he Eme	ergency	Planning	and
Community Right to Know Act of 1986	and 400	CFR372	<u>)</u>					
Other regulations, limitations and prohil	bitive re	gulatio	าร	1 1		11		

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.

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 	11. 1			···.	1 - 1 1		· · .	1 - 1 - 1		· · .	1 - 1 1		
				1	1		1						