

SAFETY DATA SHEET

1	1	111	1	1		1			Date	Accesse	d: 25/08	8/2023
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SEC	CTION	1. ID	ENT	IFICA								
						1	`: 	111	1	1		1
	uct Name:	-			-							
CAS	#:				1		1 I					
Relev	vant ident	ified us	ses of t	he subs	stance: S	Scienti	fic resea	rch and	devel	opment		÷.,
Supp	lier detail	s:										
Stanf	ord Advan	ced Ma	terials					: • •				
	il: sales@s											
	949) 407-8									1		. * *
Addre	ess: 23661						J.S.A.		1			
_	CTION									SHA HC		
The s	ubstance	is not c	lassifie	d accord	ing to the	e Globa	ally Harm	ionized S	System	(GHS).		·
Haza	rds not oth	erwise	classifi	ed							ı	
No in	formation l	known.										
: Label	elements		:		ı				1		,	:
GHS	label elem	ents		н 1 - 1						1		
Not a	pplicable		·			1			·			
												1.1
laza	rd pictogra	ms										<u>'</u>
			1		1 1 1			1 1 1 1		4		
Not a				·		,			,			1

		1	1		,					
Not applicable	·· .									
Hazard statements										
Not applicable						'			<u>'</u>	
WHMIS classification										
Not controlled	: 1:			1						
Classification system	·· .	н н Н			н н н					
HMIS ratings (scale 0-4)		:	·		:	·			1	
(Hazardous Materials Ider	ntification Sys				ï					
Health (acute effects) = 0	. <u>'</u> .									
Flammability = 0Physical I	Hazard = 0		,	'			,			
Other hazards				н 1 — 1			н 1 — 1			
Results of PBT and vPvB	assessment		1			1			1	
PBT:										
Not applicable.	: 'i			1		· .		111		
vPvB:										
Not applicable.										
<u> </u>										

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization		stances			 				
CAS# Description:									
7440-50-8 Copper	'			'		1 	 1	1	
Identification number(s):									
EC number: 231-159-6									
7439-98-7 Molybdenum			н н Н		 		 н н н	11	
Identification number(s):	·		:	·			;	·	
EC number: 231-107-2			,		 1		 8		

SECTION 4. FIRST AID MEASURES

	1			1	1 1 1		1			
Description of first aid measures		1 1 5								
General information										-
No special measures required.			·	н н н	1	`		-	1 	
After inhalation										
Seek medical treatment in case of	of compla	ints.								1
After skin contact		1 I 1			н н н			н н н		
Generally the product does not ir	ritate the	skin.	·							
After eye contact			1 1			1 1		:		
Rinse opened eye for several min	nutes unc	der runi	ning wa	iter. If sym	nptoms	persist	, consult a		•	
After swallowing			1	1	,	1	1			
If symptoms persist consult docto	or.									
Information for doctor	1	1	·	1	1	·			1	
Most important symptoms and ef										
No further relevant information av	vailable.				; • •			;		
Indication of any immediate medi	ical attent	tion and	d speci	al treatme	ent need	led				
No further relevant information av	vailable.									
SECTION 5. FIREFIG		G ME	EASL	JRES						
		÷				1	1			
		1 1 1	1					н н Н		
Suitable extinguishing agents			·	i.	1	1		:	1	
Special powder for metal fires. D					,					
For safety reasons unsuitable ext	tinguishir	na paper	ato							
and the second	-			· .	: · ·	·	1.		·	
Water			`.				` :			
Water Special hazards arising from the			`.							
Water	substanc	e or mi	ixture an be re	eleased:	н н н	- 1 - 1 	н н н	 		
Water Special hazards arising from the	substanc , the follo	e or mi	ixture an be re	eleased:	н н н	- 1 - 1 		 		
Water Special hazards arising from the If this product is involved in a fire	substanc , the follo	e or mi	ixture an be re	eleased:	: · · · · · · · · · · · · · · · · · · ·		 	 		
Water Special hazards arising from the If this product is involved in a fire Copper oxidesAdvice for firefight	substanc , the follo	e or mi	ixture an be re	eleased:	: · · · · · · · · · · · · · · · · · · ·		 	•		

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Keep container tightly										
Store in cool, dry con	ditions in	well sea				;	·		;	·
Specific end use(s)			i			i			i	
No further relevant inf	formatior	n availab)le.							
	1	:		:		,	:			1
SECTION 8. E	·	SURE	CON						1	
PROTECTION	1		:						:	
Exposure controls		۰.	;	· .	1.			· .		· .
Personal protective e	quipmen	ıt		,						
General protective an	ıd hygier	nic meas	ures		н 1 — 1	н н н		н 1 — 1		
The usual precaution				g chem	icals shc	ould be fo	ollowed	-		·
Maintain an ergonomi	-			-						
Breathing equipment:	:		;**			; • •		1	;**	· .
Not required.										
Protection of hands:										
Not required Penetrat	tion time	of glove	e materia	l (in mir	nutes)		1		-	·
Not determined										
Eye protection:			;**	`: :		;**	1		111	1
Safety glasses					i.					
Body protection:										
Protective work clothing	ing.			1	, , ,	:	1.1	, , ,		1
	-									

Information on b					3	:			
General Informa			,						
Appearance:	; • •	4		1			1		
Form: Solid in va									
Odor: Odorless		 	1 I 1	. * *		н н н		 н н н	

Odor threshold: Not determined.								
pH-value: Not applicable.								
Change in condition				`			1 	
Melting point/Melting range: Not determined.								
Boiling point/Boiling range: Not determined.		1						
Sublimation temperature / start: Not determined		н 1 — 1	н н 1		н 1 - 1			
Flammability (solid, gaseous)								
Not determined.		1 I	;		1 I	1		
Ignition temperature: Not determined		· .		· .			· .	
Decomposition temperature: Not determined	ı	,		I	,		1	
Auto igniting: Not determined.			н н н					
Danger of explosion: Not determined.	1. 			1			1	
Explosion limits:								
Lower: Not determined						; • •	· .	
Upper: Not determined								
Density at 20 °C (68 °F): Not determined.			1		1 I			
Relative density	1. 	1 1 - 1		1		-	1	
Not determined.								
Vapor density					1	: • •		
Not applicable.								
Evaporation rate	'		,	,			,	
Not applicable.	·	1 1 1			1 1 1			
Solubility in / Miscibility with Water: Insoluble								
Partition coefficient (n-octanol/water): Not deterr	nined.	1		1				1
Viscosity:			1 I 1					
dynamic: Not applicable.		1						
kinematic: Not applicable.	1 1	н н	:		· · ·			
Other information				ı			ı	
No further relevant information available.	1	:	ı					:
								1

									1
SECTION 10. STABILIT	Y AND) RE		/ITY	1.1				
Reactivity	1	1		:	1			1	
No information known.									
Chemical stability		1		111			: • •		
Stable under recommended storage	condițions	5.							
Thermal decomposition / conditions according to specifications.	to be avoid	ded:De	composit	tion will r	not occi	ur if used	and stor	red	
Possibility of hazardous reactions									
No dangerous reactions known				111	1	1	:**		
Conditions to avoid No further relevant information availa	able.		н 1 — 1	1 - 1 1		н 1 - 1			
Incompatible materials:		1. 			1			1	
No information known.									
Hazardous decomposition products:				111		1	111		
Copper oxides, molybdenum oxides	1 - 1 1								
	1	1		}	1	н 1 — 1		1	
SECTION 11. TOXICOL	OGIC	AL IN	IFORI	ΜΑΤΙΟ	ON				
Information on toxicological effects			1			1		1	
Acute toxicity:			н 1. т.						
The Registry of Toxic Effects of Che substance.			s (RTECS	6) contai	ns acut	e toxicity	data for	this	
LD/LC50 values that are relevant for	classificat	lion.							

			1		1				1		1
Oral LD50 >50	00 mg/ł	kg (mou	ise)								
Skin irritation o	r corros	sion:				н н н					
No irritant effec	ot.	·			1			1			1
Eye irritation o	corros	ion:									
No irritant effec	ot.			111			; • •			111	
Sensitization:				1 I							

			1 1 1							
No sensitizing effects k	nown.									
Germ cell mutagenicity	-									
No effects known.	1			1	н н н		1			1
Carcinogenicity:										
EPA-D: Not classifiable	e as to h	numan car	cinogei	nicity: i	nadequat	e huma	n and a	animal ev	/idence o	of ¹
carcinogenicity or no d	ata are	available.	н н н							
The Registry of Toxic E	Effects o	of Chemica	al Subs	tances	(RTECS)) contaii	ns tumo	origenic a	and/or	
carcinogenic and/or ne	oplastic	data for t	his sub	stance			1.0			
Reproductive toxicity:										
The Registry of Toxic E	Effects c				(RTECS					
substance.							-			
Specific target organ s	ystem to	oxicity - re	peated	expos	ure:	;	·			·
No effects known.			,							
Specific target organ s	ystem to	oxicity - sir	ngle ex	posure	:		1			
No effects known.										
Aspiration hazard:	. **	1 1 - 1						н 1 — 1		
No effects known.	1			1			1			·
Subacute to chronic to	xicity:									
No effects known.	1				`: :			1	111	1
Additional toxicological	informa	ation:								
To the best of our know	vledge t									

Toxicity						н 1 - 1	н н н	 н 1 - 1	
Aquatic toxicity	y:								
No further rele						1 I	;	 	
Persistence ar	nd degra	dability	No further	releva	nt infor	mation a	vailable.		
Bioaccumulati	ve poten	itial		1		1		:	
No further rele	vant info	ormatio	n available				н н н	 	

Mobility in soil														
No further relevant information available	e.													
Additional ecological information:	1	·	1 1		1			· · ·						
General notes:														
Do not allow material to be released to the environment without proper governmental permits.														
Do not allow undiluted product or large	quantit	ies to re	each grou	und wate	er, wate	r course	or sewa	ge ,						
system. Avoid transfer into the environment.	1	5	н 1 - 1	1 1 1	1			1	,					
Results of PBT and vPvB assessment			1											
PBT:				1		:	1	1						
Not applicable.	н н н		н 1 — 1	1 - 1 1			н н н							
vPvB:		·			1			·						
Not applicable.														
Other adverse effects														
No further relevant information available	e.													
				1										
the state of the state		1.1		1	1			1						
SECTION 13. DISPOSAL	CON	ISID	ERAT	IONS										
Waste treatment methods		1				1	: * *	`: 						
Recommendation														
Consult state, local or national regulation	ons to e	nsure p	proper dis	sposal.										
Uncleaned packagings:	1	1.1	1 1 - 1		1.1			1						
Recommendation:														
Disposal must be made according to of	ficial re	gulatior	าร.			1								
SECTION 14. TRANSPOR	RT IN	IFOF	RMATI	ON				1 						
UN-Number														
DOT, ADN, IMDG, IATA	,	1	1			:								
Not applicable	н н н		1 1 1	1 I		н 1 — 1								

	1			1	1		1	1	1	1	
UN proper shipping na	me							: 			
DOT, ADN, IMDG, IAT											
Not applicable	<u>'</u>			·	1 1 1		1 			·	
Transport hazard class	s(es)			1							
DOT, ADR, ADN, IMDO	G, IATA	A C									
Class		н 1. т.									
Not applicable Packing group	·		1		, , ,		·			1 1	
DOT, IMDG, IATA											
Not applicable	1	;	·		:		:	1			
Environmental hazards	S: '				, , ,	1 - 1 1					
Not applicable.	·			·			1			·	
Special precautions for											
Not applicable.	1	4	; • •	· .							
Fransport in bulk accor	rding to	Annex II	of MAR	RPOL73	8/78 and	the IBC C	Code				
Not applicable.											
Fransport/Additional in	formati	on:		·			1 1			1	
DOTMarine Pollutant (I	DOT):										
No	`: 				`; ;		1	1	1.1.1		
			1 - 1 1								
SECTION 15. F	REGI		ORY	INFC	RMA	TION	·		:	·	
Safety, health and envi		-		-	-	ic for the					
GHS label elements											
Not applicable				1	н 1 1.						
	÷			1. J.			1			5. A	
Not applicable											
				1	1			1	111	1	
Not applicable											
lazard statements		· · ·			1 I						

		1	1			,		
Not applicable								
National regulations								
All components of this product are listed	in the	U.S. E	nvironme	ntal Pro	tection	Agency	Гохіс	1
Substances Control Act Chemical substa	ance In	ventor	у.					
All components of this product are listed	on the	Canad	dian Dom	estic Su	Ibstance	es List (D	OSL).	
SARA Section 313 (specific toxic chemic	cal listir	ngs)	1 1 - 1					
7440-50-8 Copper								
California Proposition 65	1		1 I					
Prop 65 - Chemicals known to cause ca	ncer							
Substance is not listed.		ı						
Prop 65 - Developmental toxicity		- 1 - 1 - 1	1 1 - 1		. * *			
Substance is not listed.		·			·			·
Prop 65 - Developmental toxicity, female	è							
Substance is not listed.	; • •		· .	: • •	1		: • •	
Prop 65 - Developmental toxicity, male								
Substance is not listed.			н 1 1.		. * *			
Information about limitation of use:		1			·			÷.,
For use only by technically qualified indiv	viduals							
Other regulations, limitations and prohib	itive reç	gulatio	ns	;**		1	111	1
Substance of Very High Concern (SVHC	c) accoi	rding to	o the REA		gulation	is (EC) N	lo. 1,907/	2006
Substance is not listed.		,		·				,
The conditions of restrictions according	to Articl	le 67 a	nd Annex	« XVII of	the Re	gulation	(EC) No	1
1907/2006 (REACH) for the manufacturi	ng, pla	cing or	n the mar	ket and	use mu	ist be ob	served.	
Substance is not listed.				;**	1		111	1
Annex XIV of the REACH Regulations (r	equirin	g Auth	orisation	for use)				
Substance is not listed.								
Chemical safety assessment:		1.1	, , ,		·			·
A Chemical Safety Assessment has not	been c	arried	out.					
								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.

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		I.	1						1					