

# SAFETY DATA SHEET

								111	Date	Accesse	d: 25/08	8/2023
.:	··.		.:	· · .			11. 1		Dat	e Revise	ed: 31/01	/2023
··.	· · · ·	· · · ·			1.1. 1.				· · .			11
SEC	CTION	1. ID	ENT	IFICA								
					111						111	
	uct Name #: 12019					:						
CAS	#: 12019 <sup>.</sup>	-07-7			ı						,	
Relev	vant iden	tified us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	develo	opment	· · .	· · .
	lier detai											
Stanf	ord Advai	nced Ma	aterials					: • •			111	
E-ma	il: sales@	)samate	rials.co	m								
	949) 407-								. 1			
	ess: 2366											
	CTION											
Class	ification a	accordin	g to Re	gulation	(EC) No	1272/2	2008					
GHS	)7									· · · .		,
STO	SE 3 H3	335 May	cause	respirato	ory irritati	on.						
Class	ification a	accordin	q to Dir	ective 67	7/548/EE						1	
Xi; Irr			•									.1
		o roopir	atonia	votom								
,	Irritating t		-, -								11.	· · ·
	nation co											
Not a	pplicable											
Haza	rds not ot	herwise	classifi	ed								

No information known.			.:	· · .			· · .		.1	· · .
Label elements										
Labelling according to R	egulation (E	EC) No 127	2/2008		· · ,	· · ,		· · ·	· · .	
The substance is classifi			-		-					
Hazard pictograms					1					
GHS07			.1	11.		.1	11. 1			· · .
Signal wordWarning										
Hazard statements										
H335 May cause respira	tory irritatio	n.								
Precautionary statement	S									
P261 Avoid breathing du	ist/fume/ga	s/mist/vapc	ours/spr	ay.		.1	· · .		.1	· · .
P304+P340 IF INHALED	): Remove	person to fi	resh air	and kee	p comfor	table fc	or breathi	ng.		
P312 Call a POISON CE	NTER/doc	tor//if you	ı feel un	well.						
P405 Store locked up.										
P403+P233 Store in a w										
P501 Dispose of content	s/container	r in accorda	ance wit	h local/re	egional/					· · .
national/international reg	julations.	· · .	· · .	· · .	· · .	· · .		· · .	··.	· · .
WHMIS classification										
Not controlled								:**		
Classification system										
HMIS ratings (scale 0-4)										· · · ·
(Hazardous Materials Ide		System)		· · .		· · .		· · · ·	· · .	· · .
Health (acute effects) = <sup>2</sup>		<b>,</b>								
					1.1.1					
Physical Hazard = 0	1	. '	:			:			:	
Other hazards			1	I	1		1	1		
Results of PBT and vPvB	3 assessme	ent			· · · .	· · .	· · .	11. 1	· · .	··.
PBT:	5 4000001110	5110								
Not applicable.	····				1.1.1					
vPvB:			:		. '	:		. 1	:	
VFVD.				,	1					

Not applicable.	
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#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization: Substances CAS# Description: 12019-07-7 Copper tin oxide (Copper stannate)

## **SECTION 4. FIRST AID MEASURES**

Description of first aid measures					.1				
After inhalation	· · .	· · .	· · .	· · .		· · .	· · .	· · .	
Supply fresh air. If required, provide arti	ficial re	spiratio	on. Keep	patient v	/arm.				
Seek immediate medical advice.				111			111		
After skin contact Immediately wash with water and soap a						···,		.:	
Seek immediate medical advice.	· · .	· · .		· · · .	· · .		· · .	· · · .	
After eye contact									
Rinse opened eye for several minutes u	nder ru	nning v	water. Th	en consi	ult a do	ctor.	1		
After swallowing		. :	· · .		.:				
Seek medical treatment.									
Information for doctor	11	· · ·		11.	11	11.	· · · ·	· · · .	
Most important symptoms and effects, b	oth acu	ute and	delayed						
No further relevant information available	). -			1.1			111		
Indication of any immediate medical atte	ention a	ind spe	cial treat	ment ne	eded	· · .		.1	
No further relevant information available									

# SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing a	gents			.:	· · .		.:			.:	
Product is not flammable											
Special hazards arising	from th	ne substar	nce or r	nixture		· · .	· · .	11	11.	· · .	
If this product is involved	d in a f	ire, the fol	llowing	can be	released:						
Advice for firefighters											. '
Protective equipment:	.:	· · .				. '		· · · ·		.:	
Wear self-contained res			· · .	· · .	· · .	· · .	··.,		· · .		
Wear fully protective imp											

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipm	nent and	l emerg	gency proc	edures		· · .	14. 1	· · .
Wear protective equipment. Keep unpro	tected p	persons	s away.					
Ensure adequate ventilation	; • •						: • •	
Environmental precautions:								
Do not allow material to be released to t								1
Do not allow product to reach sewage s	ystem o	r any w	ater cours	se.'	· · .		11	· · .
Do not allow to penetrate the ground/so	il.							
Methods and material for containment a	nd clea	ning up	<u>.</u>				111	
Ensure adequate ventilation.		.;	· · · .					
Prevention of secondary hazards:								
No special measures required.	· · .	· · ·		· · · .				· · .
Reference to other sections								
See Section 7 for information on safe ha	andling							
See Section 8 for information on person	al prote	ction e	quipment.					
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 containe	rs.		• • •	11.		· · .	· · · .	· · .
Ensure good ventilation at the workplace.								
Information about protection against explosions	and fire	s:	1					. '
No information known.				.1	· · .		.1	•••
Conditions for safe storage, including any incom			11,	···.		· · .	· · · .	•••.
Requirements to be met by storerooms and rece	ptacles							
No special requirements.								
Information about storage in one common storage	je facili	ty:						۰۰,
Not required.	· · .		· · .	· · .	· · .	· · .	· · .	•••
Further information about storage conditions:								
Keep container tightly sealed.			; • •			; * *		. • •
Store in cool, dry conditions in well sealed contain	iners.							
Specific end use(s)No further relevant informatio	n availa	able.	. '		· · · .		. '	· · · .
	1. I. I	1.1.	1.1.	1	1	<u>1 1</u>		۰۰.
SECTION 8. EXPOSURE CONT PROTECTION	ROL	_S/PEF	rson	AL	.et	;••		
n de l'arresta de la construcción d La construcción de la construcción d							.:	۰۰,
Exposure controls Personal protective equipment	· · .	···,		· · .	··	11	11	۰۰.
General protective and hygienic measures The usual precautionary measures for handling of	chemica	als should	be follo	owed.	at in	:		
Keep away from foodstuffs, beverages and feed					99. 1		.:	•••,

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment. Breathing equipment:

Use suitable respirator when high concentrations are present.

Protection of han	ds:	.:			.:						
Impervious glove											
Check protective	gloves	prior to	each use	for the	ir prop	er conditio	n.	· · ·	· · .	11	···.
The selection of s vary		•		•		e material,		•			
from manufacture Eye protection:	er to ma	nufacti	urer.		.:	···,		3	···,		.:
2	11.	· · .	···.		11.	· · ·	· · .	Ч. Т	···.	11.	۰۰.
Body protection: Protective work c	lothing.										

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

nformation on basic physical and chemical properties												
General Information	1											
Appearance:				11			11.					
Form: Powder	· · .	· · .	· · .		· · .	· · .	· · .	· · .				
Odor: Odorless												
Odor threshold: Not determined	L <sub>.,.</sub> .				1.1.1			: • •				
pH-value: Not applicable.												
Change in condition												
Melting point/Melting range: No	t determin	ed	1. 1.		· · .	· · .	· · .	11. 1	··			
Boiling point/Boiling range: Not	determine	ed										
Sublimation temperature / start:	Not deter	mined			; * *			; * *	•••			
Flash point: Not applicable			:		. '	:	· · .		:			
Flammability (solid, gaseous)	,	,		'	,		,	,				
Product is not flammable.		· · .	· · ·		· · .	· · .	11.	11.	•••			
Ignition temperature: Not deterr	nined											
Decomposition temperature: No	ot determin	ned						111				
Auto igniting: Not determined.	· · .		. :	· · .			· · .	11				

		, '	1 1 1								. '
Danger of explosion	1: Product (	does not	present a	an exp	olosion ha	azard.	.:			.:	
Explosion limits:											
Lower: Not determin	ied			· · .		· · · .	· · ·	11.		· · .	
Upper: Not determin	ned										
Vapor pressure: Not	t applicable	е.									
Density: Not determi	ined	· · · ,						· · .			
Relative density Not determined.Vap	or density		· · ·	•••	11. 1	· · .	С.	· · .		· · .	
	OF Genary										
Not applicable.			111			111			111		. '
Evaporation rate	· ;							· · .			
Solubility in / Miscibi						11	· · · .	11	··	· · .	
Partition coefficient (		-									
	·					111			111		. '
dynamic: Not applica kinematic: Not applic	1. J.	11.		.1			.1	· · .			
Other information		· · .	· · .	· · .	· · · .	· · .	· · .	· · .	· · · .	· · .	
No further relevant i	informatior	າ availab	le.								
SECTION 10. Reactivity	. STAB										
No information know	wn.										
	·								111		. '
Stable under recomm	mended st	torage co	ondițions.		· · · .			· · .			
Thermal decomposit	tion / cond	litions to	be avoide	ed:							
Decomposition will r	not occur if	f used ar	nd stored	accor	ding to s	pecificati	ions.	· · ·	···,	· · ·	
Possibility of hazard	lous reaction	ons									
No dangerous reacti			,		. '			. '			
Conditions to avoid	1							· · · ·	1		

			1					1
No further relevant information available.			· · .		.:	···.		
Incompatible materials:								
No information known.	· · ·	· · .		· · .	11.		· · .	
Hazardous decomposition products:								
No decomposition products known.							 	. '

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological e	effects									
Acute toxicity:										
No effects known.							· · · ·			,
LD/LC50 values that are rele	vant for cl	assificat	ion:	· · .	· · .		· · .	· · .	· · .	
No data										
Skin irritation or corrosion:		: • •								
Irritant to skin and mucous m										
Eye irritation or corrosion:							11.			
Irritating effect.		· · .	· · .				· · .	· · · .	· · .	
Sensitization:										
No sensitizing effects known	<u>.</u>				111			111		
Germ cell mutagenicity:	· · · .			· · .		.:	· · .			
No effects known.										
Carcinogenicity:		11.	· · ·			11		11.	· · .	
No classification data on care	•									
NTP, OSHA or ACGIH.										
Reproductive toxicity:	· · .					.:	· · .			
No effects known.										
Specific target organ system	toxicity - r	epeated	l expos				· · .	· · ·		
No effects known.Specific tar	rget organ	system	toxicity	/ - single	exposure	e:				
May cause respiratory irritation	on.	,		. '			. '	,		
Aspiration hazard:	· · .			· · .		.:	· · .			

No effects known.	· · .		.:	· · .		.:	•••		.:
Subacute to chronic toxicity:									
Subacute to chronic toxicity:		· · .		· · · ·	11.	· · .		11.	11.
No effects known.									
Additional toxicological informa									

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

## **SECTION 12. ECOLOGICAL INFORMATION**

			1		1.1.1	1 · · · · · · · · · · · · · · · · · · ·	1		1.1		
Toxicity											
Aquatic toxicity:			11.			11.					.:
No further relevar	nt inform	ation a	available.	•••	· · .	· · ·	· · .	· · .	· · .	· · .	· .
Persistence and c	legradal	bility									
No further relevar	nt inform	ation a	available.	; • •						; · · ·	
Bioaccumulative p											
No further relevar	nt inform	ation a	available.	,			,	. '		. '	
Mobility in soil	· · .		с.,	· · ·	· · .	11.	· · .	11. 1		11. 1	•••
No further relevar											
Additional ecologi	cal infor	matior	ו: י							; • •	
General notes:			· · .		.:	· · .			· · .		.:
Do not allow mate											
Avoid transfer into	the env	vironm	ent.	· · .	· · ,	· · .	· · .			11.	•••
Results of PBT ar											
PBT:							; • •				
Not applicable.		1	· · .		.:	· · .		.:	•••		.:
vPvB:											
Not applicable.			· · .			· · .			· · .		· · .
Other adverse eff	ects		.'			.'					
No further relevar											
1		1					. 1	1			

### SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods		· · .	· · .		· · .	11. 1	· · · ·	· · .	11. 1	
Recommendation										
Consult state, local or national	regulation	s to en	isure p	roper disp	osal.					. '
Uncleaned packagings: Recommendation:	···.			11. 1		3	··		.÷	
Disposal must be made accord	ing to offic	cial reg	ulation	S.	· · · .	Ч.,	Ч.,		· · .	

# **SECTION 14. TRANSPORT INFORMATION**

Not a hazardous material for transportation.											
UN-Number	· · .		· · .	· · .		· · .	· · ·	· · .	· · .		
DOT, IMDG, IATA						1 1 1 1					
UN proper shipping na	ame	11. 1		.1	· · · .		.1			.÷	
DOT, IMDG, IATANon	e		· · .			· · .	· · .	· · ·			
Transport hazard class	s(es)										
DOT, ADR, IMDG, IAT	A					: ' '					
Class None	.1	···.		.1	··.,	at a	.:			j.	
Packing group	· · .	11	· · .	· · · .	11	· · · .		···.	· · .	· · .	
DOT, IMDG, IATA											
None									; • •		,
Environmental hazard Not applicable.	S:	···.		.:	ч.,		.:			1	,
Special precautions fo	r user		· · .	· · .		· · .	· · .		···.	11	,
Not applicable.											
Transport in bulk acco	rding to	Annex II o	of MAR	POL73	/78 and th	e IBC C	ode				
Not applicable.		94. 1			· · .			··			,

Transport/Additio	onal info	ormatior	n:		.:	···,		.:	· · .		
Not dangerous according to the above specifications.											
DOT		· · · .					11.	11.		Ч., Т	···,
Marine Pollutant						. '					
No			1			ı			1		

#### **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 Non-Domestic Substances List (NDSL). 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.