

SAFETY DATA SHEET

	÷.,		14			1. 1.		111	Date	Accesse	d: 25/08	
`: 	· · .		1			1	1 1 1		Dat	e Revise	d: 06/1 1	/2022
	, i	1. 1.			1. 		.:	1			1	
SEC		I 1. ID	ENT	IFICA	TION							
						14	1	111	1. 1.		111	14
	uct Name	-	-									
CAS	#: 1315-0)1-1	1		1 1				1		1 I	
Relev	vant iden	tified us	ses _: of t	he subs	tance: S	Scienti	fic resea	rch and	devel	opment		-
Supp	lier deta	ils:										
11	ord Adva				111	1		: • •	۰.		111	÷.,
	il: sales@	-										
	ess: 2366								;	11. 1		
	,					2000						
Class GHS(ification a	accordin	g to Re	gulation	(EC) No	1272/2	2008			.:	14. 1	;
Skin I	rrit. <mark>2 H</mark> 3	15 Çaus	es skin	irritation		· .	:		· .			
	rit. 2A H				irritation	1.						
STOT	SE 3 H3	335 May	cause i	respirato	ry irritati	on.	11					1
	rds not ot									, i		
No da	ata availa	ble										
Label	element	S ;	1. 1.	1.		1.	1	111	۰.		111	÷.,
Label	ling acco	rding to	Regulat	ion (EC)	No 127	2/2008						
1	· · · .		1	· · .			11.		1	11		1

	1.	1	1	1	'	1	1.	1.	1	1.	
The substance is classi	fied and	labeled	accordi	ng to th	e CLP reg	gulation	-				
Hazard pictograms											
GHS07				1		1	1				. :
Signal word											
Warning	· · ·				÷.						1
Hazard statementsH31	5 Cause	es skin irr	itation.		· · .			· · ·			
H319 Causes serious e	ye irrita	tion.	• .	:							:
H335 May cause respira	atory irr	itation.		i				1		i.	1
Precautionary statemen	its	:		· .	1		· .				
P261 Avoid breathing d	ust/fum	e/gas/mis								ı	
P280 Wear protective g	loves/p	rotective	clothing	/eye pr	otection/fa	ace prot	ection.	· · · ·	н н н	1	
P305+P351+P338 IF IN	I EYES	: Rinse ca	autiously	y with w	ater for s	everal r	ninutes	. Remove	contac	t	.:
lenses, if present and e	asy to c	lo. Contin	ue rinsi	ng.							
P304+P340 IF INHALEI	D: Rem	iove victin	n to fres	h air ar	nd keep at	t rest in	a posit	ion comfo	rtable f	or	;
breathing.											
P405 Store locked up.		11.	н н н		11.		1		н 1		
P501 Dispose of conter	nts/cont	ainer in a	ccordan	ice with	local/regi	ional/		.:	14. 14.		.:
national/international re	gulatior	าร.									
WHMIS classification	1.		: ' '		÷.,		Ч.,		:**	1. 1.	1
D2B - Toxic material ca	using o	ther toxic	effects								
Classification system											
HMIS ratings (scale 0-4)					1.	1	.:	1. 1.		.:
(Hazardous Materials Ic		-	-								
HEALTH								1.		14. 1	;
FIRE					· · .						
REACTIVITY											
2			· · .	1			1	.:			. :
1											
1					÷.					1	1
Health (acute effects) =	2	· · ,	і 1 — 1		· · .			· · · .	: 	1	

	1			1 1 1	· · .			· · .				:
Flammability = 7	1	· :	· · ·		· .	· · .		· .	с.,		· :	
Physical Hazard												
Other hazards				14								
Results of PBT												
PBT:		14. 1	1		·			÷.,			14	:
N/A		· :	· · · .		· .	· · .		· .	· · .		1	
vPvB: N/A	· ,	:	.1	۰.		.:		:	.÷		;	.:
			1.	1 1 1 1	1.		: ' '	1. 1.	1.	:	1.	:
SECTION	3, C	OMP	OSIT	ON/II	NFO	RMAI		DN II	NGRE		TS	
Substances	·		.:	·		.:	÷.,					
CAS No. / Subs												
1315-01-1 Tin (I	IV):sulf	ide	÷.,	; • •	1. 1.	÷.,	1.11	1. 1.	÷.,	111	÷.,	;
Talan and the		1	1.	н 1 - 1			н. 1 1.	1		н. 1. т.	1	
SECTION	4. _[FI	RST		MEAS	URE	S	5. 19	:	.1			.:

Description of first aid measures

If inhaled: Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.lf swallowed: Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayed

No data available

Indication of any immedia	ite medica	l attention	and spe	ecial treat	ment ne	eded			1	
No data available										
and the second sec						1		1.		
SECTION 5. FIR	EFIGH		/IEAS	SURE	S :	14. 14.				
Extinguishing media	'e			· · .	н 1 - 1		· · · ·		1	,
Suitable extinguishing ag	ents						:	• .		
Carbon dioxide, extinguis										
resistant foam.	·. :		· .	1	: • •	· .	;	111	· .	
Special hazards arising fr						,			ï	
If this product is involved	in a fire, th	ne following	g can be	e release	d:	1	11	н 1. т.		
Hydrogen sulfide				.1			.1			
Sulfur oxides (SOx)										
Metal oxide fume		1 1 1 1	1.			·	1		1. 1.	
Advice for firefighters	1	1						1		
Protective equipment:	: ''.			· · ·		1	11.		1	
Wear self-contained resp	irator.				14			14	-	
Wear fully protective impe	ervious sui	it.								
	<u>.</u>	1.1.1	·			·	:	1.1.1	· .	
SECTION 6. AC	CIDEN		ELEA	SE M	EAS	JRES	S	, , ,		
Personal precautions, pro	otective eq	uipment ar	nd emer	rgency pr	ocedure	S		1. 1.		
Use personal protective e	quipment.	. Keep unp	rotected	d persons	s away.					
Ensure adequate ventilati	ion		14				1			
Environmental precaution	is:			· · .		`;	· · .		1	
Do not allow material to b	e released	d to the env	vironme	ent withou	it official	permit	S.			
Methods and materials fo	r containn	nent and cl	eanup:							
Ensure adequate ventilati	ion.			1						
Prevention of secondary l	hazards:	1	· .	1	1	· .	1	1	· .	
No special measures requ	uired.			· · .		`: :	· · · ·			1

			1 1 1			1 1 1				1	
Reference to other	sections										
See Section 7 for i	nformation o	on safe ha	andling								
See Section 8 for i	nformation o	on persor	al prote	ection e	equipment.			.:			.:
See Section 13 for	disposal inf	ormation									
							19			14	
		· · · .						· · .			··.
SECTION 7.	HANDI		AND	STO	RAGE						
Handling	1. :							.'	<u>'</u> ,		. '
Precautions for sat	fe handling	ı			I.	; • •					
Keep container tig	htly sealed.	` ,		· .	· .		· ·	· .		· .	· .
Store in cool, dry p	lace in tight	ly closed	contair	ners.				11		1	•••,
Ensure good ventil	lation at the	workplac	e.			·		.:	·		
Information about	protection a	gainst ex	plosion	s and fi	res:						
No data available		1		·	1		1.	:		·	
Conditions for safe	e storage, ind	cluding a	ny incoi	mpatibi	litiesRequi	remen	ts to be	met by s	storeroor	ns	
and receptacles:		· · .		1				11.			· · .
No special require	ments.	.1	1. 1.			÷.,					.1
Information about	storage in oi	ne comm	on stora	age fac	ility:						
No data available				1.			1. 1.	1	111		1
Further information	n about stora	age condi	tions:								
Keep container tig	htly sealed.				···,						· · ·
Store in cool, dry d	onditions in	well-seal	ed con	tainers.		1. 1.					.:
Specific end use(s)										
No data available				1.		: • •	1. 1.	1	111	1. 1.	Ξ.
				·				· · · .		· ;	
			001	TDO							
SECTION 8 .	EXPOS	ORE	CON	IIRC	IS/PE	RSC	NAL	-	11		

PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average

	· · .		1 1 1	1		1 1 1	, ,				
face velocity of at least	100 fee	t per min	ute.		· · .			· · .			· · .
Control parameters											
Components with limit	values t	hat requi	re mon	itoring	at the wo	orkplace:					
Tin metal, oxide and inc	-	-		-	-						
mg/m3	1		1	1		1		· .	1	1	1.
ACGIH TLV 2		· · .			· · .		1	· · .		1	· · · .
Austria MAK 2	:		· ,	:		1. 1.			· .	:	
Belgium TWA 2		ı	,	,	,		I		,		,
Denmark TWA 2	·		1 I I 1				· .	1		·	:
Finland TWA 2											
Germany MAK 2			, , ,		· · .			11.			÷.,
Hungary TWA 1; 2-STE	EL (skin))			.1	1. 1.	1		1. 1.		
Korea TLV 2											
Netherlands MAC-TGC	5 2 ₁			۰.				1	111		1
Norway TWA 1	•			1	· · .		· .	· · .		· .	
Poland TWA 2		,	1 1	ı	,		ı				,
Switzerland MAK-W 2;	4-KZG-	W.					1		14		. 1
United Kingdom TWA 2											
USA PEL 2				1		111		1	111	14	1
Additional information:		· · ·			· · · .		· ;	· · .		1	· · .
No data											
Exposure controls		1		1		<u>'</u> ,	1	. '	· .	1	
Personal protective equ	uipment			1							
Follow typical protective	e and hy	/gienic pr	actices	s for ha	ndling ch	nemicals.	۰.			1.	
Keep away from foodst	uffs, bev	verages a	and fee	ed.				11		1	÷.,
Remove all soiled and	contami	nated clo	othing in	nmedia	ately.			.:			
Wash hands before bre	eaks and	d at the e	nd of w	ork.	r.		I				
Avoid contact with the e	eyes an	d skin.		· .			· .				L,
Maintain an ergonomic		-	vorking	l enviro	nment.						,
Breathing equipment:		· · · .			· · · ,	н 1 - 1		11		1	÷.,

Protection of har			high cond								
mpervious glove	es								.:		-
nspect gloves p											
Suitability of glov			e determir								
oy manufacturer.		1				ч.,			· · .		1
Eye protection:				1. 1.					.:		
Safety glasses											
Body protection:	Protec	tive wo	ork clothir	ng	1. 1.	1	111	14	1	111	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physic	cal and chem	nical pro	perties						5. 1	
Appearance:			,							
Form: Powder	· · · ·								1	
Odor: No data available	.1	1. 1.			۰.			1. 1.		
Odor threshold: No data av	vailable.									
pH: N/A	. :		1.		111	· .				
Melting point/Melting range	e: 600 °C (11	12 °F)								
Boiling point/Boiling range:	No data ava	ailable								
Sublimation temperature /	start: No dat	a availal	ole		14. 14.	1		14		
Flash point: N/A										
Flammability (solid, gas)		: * *	1. 1.	1		14	1	: • •	14	
No data available.	· · · ·									
Ignition temperature: No da	ata available									
Decomposition temperature	e: No data a	vailable						14		
Autoignition: No data availa	able.									
Danger of explosion: Produ				losion ha			1		1.	
Explosion limits:	· · · ·		1	19. 19.		1	Ч.			

		· · .		111			111	· · ·			1.	
Lower: No data a	vailab	le				· · .					· .	
Upper: No data a	vailab	le										
Vapor pressure: I	N/A					.1	1.					
Density at 20 °C	(68 °F): 4.5 g	/cm									
3					1	1	1.1.1	14		1.1		1
(37.553 lbs/gal)			· · .			· · · ·			· · .		1	۰۰,
Relative density			1	۰.,	1							
No data available).	i		Ċ,			· ,	i			i	
Vapor density	; • •	· .		; • •	۰.	1		1.			۰.	1
N/A					,							
Evaporation rate			· · · .						11. 1	н 1 - 1	1	۰۰,
N/A	1.			1		.:	1. 1.			1. 1.	-	.:
Solubility in Wate	r (H											
2		1.		1 - 1 - 1 1	÷.,	1		1. 1.			÷.,	1
O): Insoluble												
Partition coefficie	nt (n-c	octanol	/water):	No data a	availab	le.			11.		1	···,
Viscosity:	1.		.1	1. 1.			1. 1.		.1			.1
Dynamic: N/A												
Kinematic: N/A		'		111			177	14		111	1.	1
Other information	l					· · .					· .	
No data available												
	1.			1.			1.			1.		1

SECTION 10. STABILITY AND REACTIVITY

Reactivity		· · · .	н 1 - 1	1	· · · ·	н 1 - 1		11		1	
No data available		1	· .	:		· .		:		1	
Chemical stability						ï			ı		
Stable under recom	mended	storage c	onditions	5.	:		· .	:			
Thermal decompos	1						· .				
Decomposition will	not occur	if used a	nd stored	d accor	ding to s	pecificati	ons.	11	, , ,	1	

· · · · ·		1			1						
Possibility of hazardou	s reactic	ons			· · .			···,		· .	
No dangerous reaction Conditions to avoid	s knowr	ו						1			
No data availableIncom Bases	•				÷.			1		1. 1.	1
No data available		· · · .	1 1 1		· · ·			· · .			•••.
Hazardous decomposit Hydrogen sulfide	tion proc			:	.÷	14. 1	:	.÷	14. 1	;	.:
Sulfur oxides (SOx) Metal oxide fume		۰.	; · ·		÷.	; · ·		4.	1 1 1 1	14. 1	1
							· .				

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:
Causes skin irritation.
Eye irritation or corrosion:
Causes serious eye irritation.
Sensitization:
No sensitizing effects known.
Germ cell mutagenicity:
No effects known.
Carcinogenicity:
No effects known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Reproductive toxicity:

No effects known.	19			· · .			· · .	: .	· .	
Specific target organ sys	tem toxicity ·									
No effects known.		· .			· · .			14		
Specific target organ sys	tem toxicity ·	- single ex								
May cause respiratory irr	itation.			1		1				
Aspiration hazard:	1						11. 11.		1	
No effects known. Subacute to chronic toxic		14. 14.		.1	÷.,		.:	÷.,	:	.:
Tin metal dust/fumes and	d inorganic ti	n compou	nds ma	ay cause	nausea,	vomiti	ng, diarrh	nea,		:
irritation and pneumocon	iosis. Most ii	norganic t	in com	pounds a	are poorly	/ absor	bed by th	ne body v	when	
ingested or inhaled.		н н н			н 1 — 1		· · ·	н 1 - 1	1	
Subacute to chronic toxic	city:	1. 1.		.1	1. 1.		.1	1.		.:
No effects known.										
Additional toxicological ir	nformation:		1. 1.		; • •	÷.,	1	111	1. 1.	:
To the best of our knowle	edge the acu	te and ch								
Carcinogenic categories										
OSHA-Ca (Occupational	Safety & He	alth Admi	nistrati	on)	1		j.	14		. :
Substance is not listed.										
<u> </u>	<u>. :</u>	1.1		1	10	·	:		· .	:
SECTION 12. E	COLOGI		NFO	RMAT	ΓΙΟΝ	`:	···,		`:	
Toxicity					14			14		
Aquatic toxicity:										
No data availablePersiste	ence and de	gradability	· · .			1	1		14	;
No data available	19			· · · .			· · .	:		
Bioaccumulative potentia No data available	al ; ,:	1. 1.		.1	۰.	1		1. 1.	:	.:
No data available										
Additional ecological info	ormation:	н 1 - 1	1	· · ·	, , ,		· · · .		1	

Do not allow materia	al to be rel	eased to	the env	rironme	nt withou	ut official	permits	S			•••
Avoid transfer into t	he environ	ment.									
Results of PBT and	vPvB asse	essment	' .	:	. '		1	. '	· · ·		. '
PBT: N/A	· · · ·	÷.		1.		1.1.1		1			:
vPvB:		· · .			· · .						
N/A Other adverse effec	ts	.1	1.		.1		1	.:	۰.	1	.:
No data available	· · · · ·	:	1 1 1 1		4	:		:	:**	1. 1.	;
		· · ·						· · .			
SECTION 13											
Waste treatment me	ethods			;	. '	· · ·	1			1	
Recommendation	· · · · ·			·			·	1		·	:
Consult official regu	lations to e	ensure pr	oper dis	sposal.							
Uncleaned packagir	ngs:	··								1	
Recommendation:				}							.:
Disposal must be m	ade accor	ding to of	ficial re	gulatior	าร.						
<u> </u>		:	1.1.1		:			:		· .	
SECTION 14	. TRAN	ISPOI	RT IN	IFOF	RMAT	ION	`;	··.		:	
Not a hazardous ma	aterial for t	ransporta	ition.			14. 14.	1	1	14		. 1
DOT, IMDG, IATA	· · · · ·	1.			1.		с. С.	÷.,	: • •	14	:
None		· · ·		1	· · ·			· · · .		1	
UN proper shipping DOT, IMDG, IATA	name	.1	14. 1	1	.1	14. 1		.:	14. 14.		.:
None Transport hazard cl	ass(es)				1	1 1 1 1		;		· .	:
DOT, ADR, IMDG, I	ATA	· · .			с.,			11.			•••

							1.1.1					
Class	··		· · .		· :	· · .			· · .			· · .
None												
Packing	group			14					.1			
DOT, IM None	DG, IATA	· .	:	;••				, ,	:			1.
Environn	nental hazards	5: ';	· · .	, , ,	1				· · .			· · .
	precautions for		.:	·	1		· .		.:	÷.,		.1
	rt in bulk accor								1	111	14. 14.	÷.
-	··	-							· · .			· · .
Transpo	rt/Additional in	formati	on:	·		.:	·		.:	·		
	gerous accordi											
DOTMar	ine Pollutant (l	DOT):	1	; • •	·			÷.,		111		
No				ŗ	· .		ı	· .			· .	
					;		1 1	1				
	1			1		.1	1		.:	1		.1

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulat	tions/leg	gislatior	n specific f	for the s	substar	ice or mixt	ure	
National regulations			· · · .			· · ·		
All components of this product are listed	in the L	J.S. En	vironment	al Prote	ection A	gency To	xic	
Substances Control Act Chemical substa	ance Inv	ventory.		1.			14	
SARA Section 313 (specific toxic chemic		• ,						
Substance is not listed.						1.	: • •	· .
California Proposition 65			· · · .			· · ·		•
Prop 65 - Chemicals known to cause car Substance is not listed.	ncer	1	.:	1.		.÷	· .	1
Prop 65 - Developmental toxicity Substance is not listed.	: * *		÷.			÷.		۰,
Prop 65 - Developmental toxicity, female	, , ,	1	···,		1	· · .		1

Substance is not listed.		· · .			н.,		· .			
Prop 65 - Developmenta	l toxicit	-								
Substance is not listed.						· · .	1			
Information about limitati	on of u	Ise:								
For use only by technica	lly qua	lified indivi	iduals.							
Other regulations, limitat	ions ar	nd prohibit	ive regu	ulations	,			··.,		· .
Substance of Very High	Conce	rn (SVHC)	accord	ling to t	he REAC	H Regu	lations	(EC) No.	1907/20	006.
Substance is not listed.					1					
The conditions of restrict	ions ac	ccording to	Article	67 and	d Annex X	VII of t	ne Reg	ulation (E	C) No	· .
1907/2006 (REACH) for	the ma	nufacturin	ig, placi	ing on t	he market	t and us	se mus	t be obser	ved.	,
Substance is not listed.		· · .	1 1 1			1 1 1		···,		1
Annex XIV of the REACH	H Regu	lations (re	quiring	Author	isation for	use)	1	.1		
Substance is not listed.										
Chemical safety assess	nent:	1		·	÷.		· .			·
A Chemical Safety Asses	ssment	t has not b	een ca	rried ou	ut.			i i		

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.