

### SAFETY DATA SHEET

	1 			1			1.00		Date	Accesse	ed: 25/08	B/2023
									Dat	e Revise	ed: 15/01	1/2023
	`:									1		
SEC	TION	1. ID	ENT	IFICA								
	1				: * *		1.00	111		1	111	
	ct Name:											
CAS #	: 7440-36	6-0										
Releva	ant identi	fied us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	l devel	opment		
Suppl	ier detail	s:										
Stanfo	ord Advan	ced Ma	terials									
E-mail	: sales@s	samate	rials.co	m	,	, '		1				. '
Tel: (9	49) 407-8	904										
	ss: 23661											
Addres												

Classification of the substa	ance or mixture	9,,,						,
Classification according to	Regulation (E	C) No	1272/20	800	. *			
The substance is not class	sified as hazar	dous to						
regulation. Classification according to						·		
N/A								
Information concerning pa	rticular hazard	ls for hu	ıman aı	nd enviror	nment:			
No data available								
Hazards not otherwise cla	ssified	: • •		1	: • •	1	: • •	,
No data available								

		.'			1	· · ·					 · · ·
Label elements					1			1			
Labelling accord											
N/A											
Hazard pictograr											
N/A			·			1 			1 		·
Signal word		, , ,			1 1 - 1			1			
N/A	. '		· .	. '		· .	. '		· .		
Hazard statemer						·					
N/A	; • •		·		, ' <sup>'</sup>	1			1		 ÷
WHMIS classific	ationNo	ot conti	rolled								
Classification sys	stem				1			1			
HMIS ratings (sc	ale 0-4	•) , , ,	1			1			1		
(Hazardous Mate	erials lo	dentific	ation Sys	stem)							
HEALTH			1	: 11		1	111		1	111	·
FIRE											
REACTIVITY			. '		1 I	. '		1 1	. '		 . '
1			1			1			1		 1
0											
0, , , ,			1			1			1.1	111	<b>`</b>
Health (acute eff	ects) =	: 1									
Flammability = 0											
Physical Hazard	= 0										
Other hazards											
Results of PBT a	and vPv	vB asse	essment			1 			<u>'</u>		1
PBT: N/A					1 1 1						
vPvB: N/A			• .						· .		
						;			i		

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

		,				
CAS No. / Substance Name	:	 	 		 	
7440-36-0 Antimony						
Identification number(s):	1			 1		
EC number: 231-146-5		 				

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

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. If swallowed: Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No data available Indication of any immediate medical attention and special treatment needed No data available

### **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agentsSpecial powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

		1 1 1			1	. '	· · ·		. 1	
Water										
Special hazards arising fr	om the substa	ance or I	mixture							
If this product is involved	in a fire, the fo	ollowing	can be	released	d:		1			
Antimony oxides										
Advice for firefighters				'	1		1 		. * *	· · ·
Protective equipment:	di di									
Wear self-contained resp	irator.									
Wear fully protective impe					. '		;	. '		:
line and an	jet i star			·	1.1.1		1			·
SECTION 6. AC			ELEA	SE M	EASI	JRES	5	. :		
Personal precautions, pro	otective equip	ment an	d emer	gency pro	ocedure	S , , ,				
Use personal protective e	equipment. Ke	ep unpr	otected	persons	away.					
Ensure adequate ventilat	on			1. 	111		1	: • •		·
Environmental precaution	IS:									
Do not allow material to b	e released to	the env	ironmei	nt without	t official	permits	5.			
Do not allow product to e	nter drains, se	wage s	ystems	, or other	water c	ourses.				1
Do not allow material to p	enetrate the g	ground c	or soil.							
Methods and materials fo	r containment	and cle	anup:	1	111		1			·
Pick up mechanically.										
Prevention of secondary	hazards:									
No special measures req	uired.									1
Reference to other sectio										
See Section 7 for informa	tion on safe h	andling					1			·
See Section 8 for informa	tion on perso	nal prote	ection e	quipmen	t. 🚬					
See Section 13 for dispos	al information	<b>1.</b>		1			1: 			

### SECTION 7. HANDLING AND STORAGE

Handling

	,	. '			. '	
Precautions for safe handling						
Keep container tightly sealed.						
Store in cool, dry place in tightly closed containers.			1			1
Information about protection against explosions and fires:						
No data available			1			·
Conditions for safe storage, including any incompatibilities						. *
Requirements to be met by storerooms and receptacles:						
No special requirements.	1			1		
Information about storage in one common storage facility:			·	111	.'	·
Store away from oxidizing agents.		,				
Store away from halogens.	, , ,					. *
Further information about storage conditions:						
Keep container tightly sealed.						
Store in cool, dry conditions in well-sealed containers.			1			·
Specific end use(s)						
No data available						

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: 7440-36-0 Antimony (100.0%) PEL (USA) Long-term value: 0.5 mg/m 3 as Sb

REL (USA) Long-term value: 0.5 mg/m

	1 1 1	. '						. '		1.1.1	. '	
3					, , ,							.'
as Sb	. 1		· .	. '			. *					· .
TLV (USA) Lon	g-term v	value: 0	.5 mg/m									
3 as Sb			·	1 1 1 1		·	;••		1	;		۰.
EL (Canada) Lo	ong-tern	n value:	0.5 mg/m	1							. :	
3 EV (Canada) Lo			: 0.5 mg/m			5	. A		`:			1
3 Additional inforr						1	1 1 1 1		1			۰.
Exposure contro												
Personal protec	tive equ	uipment	t ,									
Follow typical p									,			
Keep away fron	ı foodst	uffs, be	everages a	ind fee	d.	1			·	: **		
Remove all soil	ed and	contam	inated clo	thing in	nmedia	itely.						
Wash hands be	fore bre	eaks an	d at the er	nd of w	ork.							
Maintain an erg	onomic	ally app	propriate w	orking	enviro	nment.						
Breathing equip	ment:											
Use suitable res	spirator	when h	igh conce	ntratior	ns are	present.	111		1	111		1
Protection of ha	nds; Im	perviou	is gloves	,	ı							
Inspect gloves	orior to	use.			1 1							
Suitability of glo by	ves sho	ould be	determine	d both	by ma	terial and	quality,	the latt	er of wh	ich may v	vary	1
manufacturer.	: • •		1			1 	; • •		1	; • •		۰.
Penetration time	e of glov	ve mate	erial (in mi	nutes)	ı	. 1						
No data availab	le		.'	1 1	1 1				. '			. '
Eye protection:	Safety	glasses				`: 			1			1
Body protection	: Proteo	ctive wo	ork clothing	J.								
						1	111	. 1	·			÷.,

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

. '	Information on basic physical and chemical properties				1			1
	Appearance:							
	Form: Solid in various forms	1	: • •		1			۰.
	Color: Silver grey Odor: Odorless							. '
	Odor threshold: No data available.							
	pH: N/A							
	Melting point/Melting range: 630.7 °C (1167 °F)	1	111	. '	1	111		۰.
	Boiling point/Boiling range: 1587 °C (2889 °F)							
	Sublimation temperature / start: No data available							
	Flammability (solid, gas): No data available.							
	Ignition temperature: No data available Decomposition temperature: No data available	1			1			۰.
	Autoignition: No data available.			1				
	Danger of explosion: No data available. Explosion limits:	<b>'</b> a	, <sup>1</sup>					
	Lower: No data availableUpper: No data available	1. 			1	; • •		· .
	Vapor pressure: N/A Density at 20 °C (68 °F): 6.68 g/cm		. :			. :		
	3 (55.745 lbs/gal)	1			1	et.		
	Relative density: No data available.	1			5		11	÷.,
	Vapor density: N/A Evaporation rate: N/A							.'
	Solubility in Water (H				1			1
	2 O): Insoluble	1.	1 1 1	A	1	;**		۰.
	Partition coefficient (n-octanol/water): No data availab	le.						

.'		1	. '		. '	 :		
) ;;;;;	e <sup>r</sup>	'	:	1	;**	1	111	÷.
	2 <sup>2</sup> 1	an a						

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity		·	: • •		·	: • •		·	
No data available									
Chemical stability							н 1 1.		 
Stable under recommer	nded sto	orage conc	ditions.		1				
Thermal decomposition	/ condi	tions to be	e avoide	ed:					
Decomposition will not o	occur if	used and	stored	accordi	ng to spe	cificatio	ns.	1. 	
Possibility of hazardous	reactio	ons						1	
No dangerous reactions	s known	, ' I						.'	 
Conditions to avoid								`:	
No data available									
Incompatible materials:					1 			1	 $\mathcal{A}^{(1)}$
Oxidizing agents									
Halogens									
Hazardous decompositi	on proc	lucts:						`: 	
Antimony oxides									
		1			1	1.1.1			 

### SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification: Oral LD50 100 mg/kg (rat) Skin irritation or corrosion: No irritant effect. Eye irritation or corrosion: May cause irritation Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. 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 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: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### SECTION 12. ECOLOGICAL INFORMATION

Toxicity		, , ,		 			 . '
Aquatic toxicity:							
No data available							
Persistence and degradabilit	ty	1 1 1 1	1		1		· .
No data available			 	 		. :	
Bioaccumulative potential							
No data available							
Mobility in soil							
No data available	1		1		1	111	· .
Additional ecological information	ation:			 			

Do not allow material to be released	to the envi	ironme	nt without	official	permits	-							
Do not allow product to reach groun	idwater, wa	ter cou	rses, or se	ewage s	ystems	, even in s	small						
quantities.													
Danger to drinking water if even extremely small quantities leak into the ground.													
Avoid transfer into the environment.	1 I I I		<b>'</b>			1 		. '					
Results of PBT and vPvB assessme	ent	, , ,		, , ,									
PBT: N/A vPvB: N/A			1			1							
Other adverse effects No data available	;···		1	; <i>**</i>		1	;••	. '					

### **SECTION 13. DISPOSAL CONSIDERATIONS**

Waste treatment methods	1	: • •		: * *	1	: • •	·
Recommendation			1				
Consult official regulations to			. '				 . '
Uncleaned packagings:	1		 1		 1		 1
Recommendation:							

## Disposal must be made according to official regulations.

### SECTION 14. TRANSPORT INFORMATION

UN-Number								
DOT, ADN, IMDG, IATA	1	1		·		1 		
N/A		1	1		1		 	. '
UN proper shipping name DOT, ADN, IMDG, IATA	1							
N/A Transport hazard class(es)	5			1	:	1		۰.
DOT, ADR, ADN, IMDG, IATA								. '

. '			. '		,							
Class												 . •
N/A												
Packin	g groupD	OT, IME	)G, IAT	A				, ' , '				 1
N/A												
Enviro	nmental h	azards:		5								1.
N/A			, , ,		1 1 1	1 1 1		, , ,				 . '
Specia	l precautio	ons for u	user									
N/A				1	, '			, '			. '	:
Transp	ort in bulk	accord	ling to <i>l</i>	Annex II of	MARP	OL73/7	78 and the		ode	1		
N/A			. '			1		I	,			
Transp	ort/Additio	onal info	ormatio	n:	1 1 1	1 1 1		, , ,	, , ,			 . '
DOT												 •
Marine	Pollutant	(DOT):										
No	1			1	1.1.1		1	1 1 1 1		1	: ' '	۰.

### SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture											
National regulations			1	: • •		1	; · · ·				
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 Domestic Substances List (DSL).											
SARA Section 313 (specific toxic chemical listings)											
7440-36-0 Antimony		. '	'			·					
California Proposition 65	1	1									
Prop 65 - Chemicals known to cause can	cer		· .								
Substance is not listed.	1		ı			1	1				
Prop 65 - Developmental toxicity		. '	·			1					
Substance is not listed.											
Prop 65 - Developmental toxicity, female	1										

		'									
Substance is not listed.											
Prop 65 - Developmental toxicity, male											
Substance is not listed.						1					
Information about limitation of use:											
For use only by technically qualified indiv	iduals.					·		. '			
This product is subject to the reporting requirements of section 313 of the Emergency Planning and											
Community Right to Know Act of 1986 an	nd 40CF	R372.									
Other regulations, limitations and prohibit	ive reg	ulations	;	I							
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.											
Substance is not listed.								1			
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No											
1907/2006 (REACH) for the manufacturin	ıg, plac	ing on t	he marke	t and u	se mus	t be obser	ved.				
Substance is not listed.											
Annex XIV of the REACH Regulations (re	quiring	Author	isation for	use)		1	: • •				
Substance is not listed.											
REACH - Pre-registered substances		1		1	1			1			
Substance is listed.						`: 					
Chemical safety assessment:											
A Chemical Safety Assessment has not b	been ca	rried ou	uť.			1	: • •	. 1			

#### **SECTION 16. OTHER INFORMATION**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information isbelieved 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.