

SAFETY DATA SHEET

	14. 1			1				111	Date	Accesse	ed: 25/08	8/2023
÷	1		÷		1		1 - 1 - 1	¹	Dat	e Revise	ed: 18/01	/2023
.:			.:				`:					
SEC		I 1. ID	ENT	IFICA								
		111		1. 1.	1.1.1						111	
	uct Name											
CAS	#:	· · · [*]		·			1 	· · · [*]		1.1		:
Relev	vant iden	tified us	ses of	the subs	stance: S	Scienti	fic resea	rch and	develo	opment		.:
Supp	lier deta	ils:										
Stanfo	ord Adva	nced Ma	terials				1.					
	· ·				1			1		1.		
E-mai	il: sales@)samate	rials.cc	n n								
	il: sales@ 949) 407-	-			'		1	'		·	'	
Tel: (9	-	-8904	: 1	1				'		'	*	:'

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The substance is not classified as hazardous to health or the environment according to the CLP regulation. Classification according to Directive 67/548/EEC or Directive 1999/45/EC N/A Information concerning particular hazards for human and environment: No data available Hazards not otherwise classified No data available

			111		· ·	111					
Label elements		1			1			1			·
Labelling according	to Regula	ation (EC)) No 127	2/2008							
N/A									1		1
Hazard pictograms											
N/A					1.			14	111		÷.,
Signal word		1. c.			1		1	1		t.	·
N/A Hazard statements	1	1						1	1		
N/A WHMIS classificatio						1 1 1 1	1	1. 1.			÷.,
Not controlledClassi	ification s	ystem	· · *		1		1	1	¹	t.	·
HMIS ratings (scale	0-4)				1						
(Hazardous Materia	ls Identifio	cation Sy	stem)								
Health (acute effects	s) = 0	1.			1. 1.			1. 1.			÷.,
Flammability = 0 Physical Hazard = 0		1. 1. 1.	· · '	:	1 		: '	1. 		e'	·
Other hazards	.1	1									1
Results of PBT and	vPvB ass	essment									
PBT: N/A					14. 14.		1	14. 14.	111		÷.,
vPvB: N/A	·	1. 	1. C	t i	1	10 ¹		1.00	1.1 ¹	ť	·
										:	· · ·

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	· · ·		-		111					÷.
CAS No. / Substance Name:	1		:	1			1		1	۰.
7439-98-7 Molybdenum Identification number(s):		· :	.1	`: 	`: `:	.1	a	1	.1	
EC number: 231-107-2 7429-90-5 Aluminum	1. 1.	: ' '	:	14	:	:				۰.
Identification number(s):	1		:	1 	¹	:	1		÷	1.

			i	1						
EC number: 231-072-3	1		:	1	'		1	*	e'	۰.
a a a				·					.:	
SECTION 4. FIRST		IEAS	URE	S						
Description of first aid measu	res		:		111		14		1	۰.
General information	·	'	;	1	¹		1		ť	۰.
No special measures required	J.	1	.:	1	` ;	.1		: :	.:	
Seek medical treatment in cas	se of com	plaints.		·						
In case of skin contact:										
Generally the product does no	ot irritate	the skin.		1	· · · [*]		1	1.1 ¹		· · ·
In case of eye contact:	1	· ;	.:			.1	1			
Rinse opened eye for several	minutes	under ru	nning	water. If sy	/mptom	is persi	st, consı	ilt a doct	or.	
If swallowed:	1.									۰.
If symptoms persist consult do Information for doctor			;	1	'	1		'	;	۰,
Most important symptoms and	d effects,	both acu	ite and	l delayed			1			
No data available										
Indication of any immediate m	nedical at	tention a	nd spe	ecial treatm	nent ne	eded	14			
No data available	5		:	1	1.1	i.	1		÷	1.
la a la la				·:		.:			.:	
SECTION 5. FIREF	IGHTI	NG M	EAS	SURES						
Extinguishing media	14. 1	111			111		1.			÷.
Suitable extinguishing agents			:	1	¹		1			۰.
Special powder for metal fires	. Do not i	use wate	r.						1	
For safety reasons unsuitable	extinguis	shing age		:	4		:			
WaterSpecial hazards arising	from the	substan	ce or n	nixture			· .			
If this product is involved in a	fire, the f	ollowing	can be	e released:		i.			Ĩ	
Molybdenum oxides	5. c	· . '	:	1		1	1.1		:	1.

Aluminum oxides		·			1			1		1	۰.
Advice for firefighters											
Protective equipment:											
No special measures re	equired.	Т.									۰.
SECTION 6. AC								·	'	: ¹	۰.
Porconal procedutions, r	vrotoctivo		nt and	omora		oduros		1		.1	
Personal precautions, p	notective	equipme	ent anu	emerg	ency proc	euures					
Not required. Environmental precaution		14. 1				; * *			;**		÷.
Do not allow product to		ains sew	ade sv	stems	or other w	ater cou	Irses	1		1	۰.
Do not allow material to											
Methods and materials		,				1	. '	:			:
Pick up mechanically.		۰.			· · ·	: • •	1	· .			۰.
Prevention of secondar	y hazard										
No special measures re	equired.		'	;							
Reference to other sect	ions		`: :	.1			.:				
See Section 7 for inform	nation on	ı safe har	ndling								
See Section 8 for inform	nation on	persona	l protec	ction ec	uipment.	111			: ' '		۰.
See Section 13 for disp	osal info	rmation.			с. Стал	'	i.	·	'	:	۰,
a a a	.1						.:			.:	•
SECTION 7. HA		ING A	ND S	STOF	RAGE						
Handling	:	1.	:**	;	1.	111	-		111		۰,
Precautions for safe ha	ndling	·			1			1			۰.
Keep container tightly s	ealed.										
Store in cool, dry place	in tightly				`: :		.'	:		.'	:
Information about prote	ction aga	ainst expl	osions	and fire	es:		;				
No special measures re	equired.	,		,	ı			,		1	
Conditions for safe stor	age, inclu	uding any	/ incom	patibili	ties	¹	1	1	¹	1	

					1						
Requirements to be me	t by st	oreroom	s and rec	ceptacl	es:			1	*		·
No special requirements	S.										
Information about stora	ge in c	one comr	non stora	age fac	cility:						
Do not store together wi Store away from oxidizin		· · ·	1 1 1 1	:				14. 14.		:	1. 1.
Further information abo	ut stoi	rage con	ditions:	; '	1	'	ť	1		ť	÷.,
Keep container tightly se Store in cool, dry condit							.1				1
Specific end use(s) No data available		1. 1.	1 I I I	1			1				÷.,
<u>and the second </u>		1			1 1 (1)			1. 			÷.,
SECTION 8. EX	PO	SURE	CON	TRC	DLS/P	ERSC	NAL	·:	1	.:	1
PROTECTION		1. 1.			14. 14.	; • •		1. 1.	;**		÷.,

Exposure controls

Personal protective equipment

Follow typical protective and hygienic practices for handling chemicals.

Maintain an ergonomically appropriate working environment.Breathing equipment: Not required.

Recommended filter device for short term use:

Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls.

Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands: Not required.

Material of gloves

Nitrile rubber, NBR

Penetration time of glove material (in minutes) 480

Glove thickness 0.11 mm

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		`: `:	.1		`: 	1	1
Appearance:							
Form: Solid in various forms							۰.
Odor: No data available	1			5			
Odor threshold: No data available.			ı				
pH: N/A		`: `:			`: `:		1
Melting point/Melting range: No data available							
Boiling point/Boiling range: No data available							1.
Sublimation temperature / start: No data available	1			5			۰.
Flammability (solid, gas): No data available.							
Ignition temperature: No data available		:	. '	;	1	.'	:
Decomposition temperature: No data available	,			1			
Autoignition: No data available.				· .			
Danger of explosion: No data available.	1	'		1	'	:	۰.
Explosion limits:		·	.:			.:	
Lower: No data available							
Upper: No data available		: ' '			; • •		۰.
Vapor pressure: N/A							
Density at 20 °C (68 °F): No data available	`	'		1 			
Relative density: No data available.		· .			1. 1.		
Vapor density: N/A							
Evaporation rate: N/A		: * *			: • •		۰.
Solubility in Water (H	1			1		:	۰.
O): No data available					1. 1.		1
Partition coefficient (n-octanol/water): No data available) .						
Viscosity:						-	۰.
Dynamic: N/A	1		; '	1. 		:	۰,

		· ·	1		· ·	1		1.	1 1 1		
Kinematic: N/A		1	'	:	1			1		e'	÷.,
Other information											
No data available		1		.:			. :			.:	
				:		1 1 1 1 1			1 1 1 1	;	1
SECTION 10.	STAE	BILITY		RE			:	1		:	·
Reactivity	:			:							
No data available	1	i	i		Ĩ	i		Ĩ	i		
Chemical stability	1	· .		1			1	· .		:	
Stable under recomme											
Decomposition will not	occur	if used a	nd store	d accor	ding to s	pecificati	ons.	1	1. ¹	ť	
Possibility of hazardou	is react	ions		. :							
Reacts with strong oxi	dizing a	igents									
Conditions to avoid			111		1.				111		÷.,
No data available Incompatible materials			¹	:	1. 	¹	t.	1	'	:	•
Acids	.1	1		.1							1
Oxidizing agents											
Hazardous decomposi	tion pro	oducts:			1	1.1.1		14. 14.	1.1.1		
Molybdenum oxides		·		. *	1			·			
Aluminum oxides							,				
	.:	1		. :	1			1		.1	1

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: No data

Skin irritation or corrosion: May cause irritation

Eye irritation or corrosion: May cause irritation

Sensitization: No sensitizing effects known.

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

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:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for

this substance.

Additional toxicological information:

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

OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity:
No data available
Persistence and degradability

		· .	1 + 1		· · .	111					
No data availableBic	accumula	ative poter	ntial		1. 			·			·
No data available Mobility in soil	.1	1		.:	1	1	.:	· .	`:	.:	
No data available Additional ecologica	l informati	ion:	;··		14. 14.	111	-			:	÷.,
Do not allow undilute	ed produc	t or large	quantiti	ies to re	each gro	undwate	r, water	courses	, or sewa	age	·
systems. Avoid transfer into th	ne environ		1	.1	1	1	.1	1	1	.:	1
Results of PBT and PBT: N/A	vPvB ass	essment		:		1 1 1 1				:	÷.,
vPvB: N/A		1	'	1	1			1		:	·
Other adverse effect No data available	S	1		.:	1	1			1	.:	1
			1 1 1				1				÷.,
SECTION 13	DISP	OSAL	CON	ISID	ERAT	IONS		·	'	:	÷.,
Waste treatment me	thods	`: `:		.:	1			1		.1	1
Recommendation											

Consult official regulations to ensure proper disposal. Uncleaned packagings: Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number	· .	· .			· .	;	· .	· .	;	
DOT, ADN, IMDG, IATA	,	,		,						
N/A UN proper shipping name	14. 14.	: · ·	1	14. 14.	:"	}	14. 14.		1	14. 14.
DOT, ADN, IMDG, IATA	1		:	1 	'	÷	1 		÷	·

	111			1 1 1			1 1 1					· · .
N/A			·		. '	1			1			÷.,
Transport haz												
DOT, ADR, A	DN, IMDO	g, IATA							1	1		
Class N/A	;··				;	1.	1999 1	1 1 1	14. 14.		1	1. 1.
Packing group	D		·			1	· · '		1			÷
DOT, IMDG, I N/A	ATA	1	`: 	1	.1	1	1		1	4		1
Environmenta N/A	I hazards		÷.,			14. 1			1. 1.			÷.,
Special preca	utions for	user	·	· · ¹	:	1. e.e.	· · '	1	1			÷.,
N/A		.:		1	. :	· :						
Transport in b	ulk accore	ding to	Annex I	l of MAR	POL73	8/78 and	the IBC (Code				
N/A	; • •		1.			1. 1.						÷.,
Transport/Add DOT	ditional inf			· · '	:		¹		1		1	÷.,
Marine Polluta	ant (DOT)				. :				1	1		
No												
		1			1	· .		1				

SECTION 15. REGULATORY INFORMATION

Prop 65 - Chemicals known to cause cancer

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 Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65

	111			1 1 1					· · .
Substance is not listed.		:	5	'		1			·
Prop 65 - Developmental toxicity									
Substance is not listed.			1				1		
Prop 65 - Developmental toxicity, fema									
Substance is not listed.							1.1.1		
Prop 65 - Developmental toxicity, male	9	:	1		ť	1		i.	÷.,
Substance is not listed.									
Information about limitation of use:		, '		:					
For use only by technically qualified in	dividuals		· · ·			- 14 14			
Other regulations, limitations and proh	ibitive reg	gulatio	าร		i			i	
Substance of Very High Concern (SVI	HC) acco	rding to	the REA	CH Reg	ulation	is (EC) N	lo. 1907/	2006.	·
Substance is not listed.		. :							
The conditions of restrictions accordin	g to Artic	le 67 a	nd Annex	XVII of	the Re	gulation	(EC) No		
1907/2006 (REACH) for the manufact	uring, pla	cing or	n the mark	tet and ι	use mu	ist be obs	served.		÷.,
Substance is not listed.									
Annex XIV of the REACH Regulations	(requirin	g Auth	orisation f	or use)		1999 			
Substance is not listed.	· :				.1		1	.1	
REACH - Pre-registered substances									
Substance is listed.	: • •			111			; • •	-	÷.,
Chemical safety assessment:		. '		'	. '	·			
A Chemical Safety Assessment has n								,	
	1	.:		1	. 1			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.