

SAFETY DATA SHEET

	н н н	: ' '	, , ,	н н н	:**	1 1 1	н н н	:	Date	Accesse		
	'		· · .	'	:	· · ·		:	Dat	e Revise	ed: 31/10)/2022
									:		1	1
SEC	CTION	1. ID	ENT	IFICA								
	uct Name					1						
	#: 7439-9					· · .	¹		11		t.	· · .
Relev	vant iden	tified us	ses _i of	the subs	tance: S	Scienti	fic resea	rch and	devel	opment	1	
Supp	lier detai	ls:										
	ord Advai il: sales@	1			111	н 1 - 1	1 - 1 1	: · ·			111	
Tel: (§	949) 407-	8904	· · .		:	· · .	¹	:	· · · .		:	· · .
Addre	ess: 2366	1 Birtche	er Dr., I	_ake For	est, CA s	92630	U.S.A.					
:								1				

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixtu	ure	11	· · · '		· · · .		
Classification according to Regulation	(EC) No	1272/2	2008	1			
The substance is not classified as haze	ardous to						
regulation.						 	
Classification according to Directive 67	7/548/EE	C or D	irective 1	999/45/	EC		
N/A	t,	· · .	· · · ¹	:	۰.		
Information concerning particular haza	rds for h	uman a	and envir	onment:			
No data available							
Hazards not otherwise classified	; • •		н н н			; • •	
No data available							

					1			1			
Label elements	· · .		;	· · ·		:	· · .		:	· · .	'
Labelling according to R	Regulat	tion (EC) N	lo 1272	2/2008							
N/A		1.1.1									
Hazard pictograms											
N/A			1	1	1		1 1				1
Signal word	· · .		t.	· · .		:	· · .		1	· · .	'
N/A						1					
Hazard statements											
N/A			1 1 1 1						: • •		
WHMIS classificationNo	ot contr	olled									
Classification system	· · .			11			11			· · .	'
HMIS ratings (scale 0-4)										
(Hazardous Materials Id	entific	ation Syste	em)								
HEALTH		1 - 1 1			н н н	: • •			; * *		
FIRE											
REACTIVITY			i								
0 : · · · · · · · · · · ·			1	-							
0											
0.		1 I			1 I			1 1 1	: * *		
Health (acute effects) =	0, ,		:	· · .						· · .	
Flammability = 0											
Physical Hazard = 0											
Other hazards											
Results of PBT and vPv	Basse	essment		1							
PBT: N/A	· · .		:	· · .			· · · .		:	· · .	
vPvB: N/A	;		· .	1							

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

	1	1			1 1 1			1		
CAS No. / Substance Name:		:	· · · .		:	· · .		:	· · .	
7439-98-7 Molybdenum										
Identification number(s):		1						1		
EC number: 231-107-2										
				1 - 1 1					<u> </u>	
and the state of the					; '	· · .		:	· · · .	
SECTION 4. FIRST										
Description of first aid measur										
Concret information										
No special measures required			, 1 1		1		t s	1.1		
If inhaled:		÷	•••	¹	i'	· · ·		:	· · · .	
Seek medical treatment in cas	se of com	plaints.								
In case of skin contact:										
Generally the product does no	ot irritate '	the skin.		н н н						
In case of eye contact:										
Rinse opened eye for several				water. If sy						
If swallowed:										
If symptoms persist consult do	octor.									
Information for doctor		111	, , ,	н н н	1 1 1		н н н			
Most important symptoms and	d effects,	both acu	ute and	l delayed	. '					
No data available		,	1		,	ı		,		
Indication of any immediate m	nedical at	tention a	and spe	cial treatr	nent ne	eded		1		
No data available										
								111		

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Special powder for metal fires. Do not use water.For safety reasons unsuitable extinguishing agents

Water

Special hazards arising	from t	he substa	ance or	mixture	н. ,					
If this product is involve										
Molybdenum oxides						1				
Advice for firefighters										
Protective equipment:										
No special measures re	equired	<u>.</u> '	:	· · · .		:	11	 i.	· · .	'

SECTION 6. ACCIDENTAL RELEASE MEASURES

		1 1	1		1 1				
Personal precautions, protective equi	pment an	d emer	gency pr	ocedure	S				
Not required.		· · · .	¹	1	· · .	¹	t.	· · .	
Environmental precautions:				· .			· ;		
Do not allow product to enter drains,	sewage s	ystems	, or othe	r water c	ourses				
Do not allow material to penetrate the	ground c	or soil.	н н 1				; • •		
Methods and materials for containme	nt and cle	anup:							
Pick up mechanically.					· · · .			· · .	
Prevention of secondary hazards:									
No special measures required.									
Reference to other sections	:**		н н н	; • •		н н н	111		
See Section 7 for information on safe	handling	· · .			· · .			· · .	
See Section 8 for information on pers									
See Section 13 for disposal information	on.							-	
SECTION 7. HANDLING	AND	STO	RAGE	Ξ	· · .		e.	· · .	
Handling Precautions for safe handling	1	1					:		
Keep container tightly sealed.									
Store in cool, dry place in tightly close			ı			,			
Information about protection against e	explosions	s and fi	res:	:	· · .	'	:	· · · .	

			1 1							
No special measures required	I. "		· · .		÷.	· · .			· · .	
Conditions for safe storage, in										
Requirements to be met by st	oreroom	s and red	ceptacl	es:	1			1		
No special requirements.										
Information about storage in c	one comn	non stora	age fac	ility:		н 1 — 1		; • •		
Do not store together with acid	ds.		· · .	¹	:					'
Store away from oxidizing age	ents.	· :								
Further information about stor			·							
Keep container tightly sealed.					111					
Store in cool, dry conditions in	n well-sea	aled cont	tainers							
Specific end use(s)			· · .		, i l		¹	t.		'
No data available		1			1			1		

SECTION 8. EX	POS	URE C	ONT	ROL	S/PER	SON	JAL	
PROTECTION	1. A.			· · .		:	· · · .	

Additional information about design of technical systems: No further data; see section 7. Control parametersComponents with limit values that require monitoring at the workplace: 7439-98-7 Molybdenum (100.0%) PEL (USA) Long-term value: 5* 15** mg/m 3 as Mo;*soluble compds., **insol.compds.:total dust TLV (USA) Long-term value: 10* 3** mg/m 3 as Mo; *inhalable fraction ** respirable fraction EL (Canada) Long-term value: 3* 10** mg/m 3 as Mo; *respirable **inhalable

	1			1						
EV (Canada) Long-term value	: 10* 3** 0.	5*** m	g/m							
3		,	,			1		'		
metal,insol.compd.:*inh;**resp	;sol.compd	.:***re	sp					1		
Additional information: No dat										
Exposure controls							н н Н			
Personal protective equipmen	t 🕂	1	· · .	¹		· · .		t.	· · .	
Follow typical protective and h	nygienic pra	ictices	for han	dling chen	nicals.	:		4		
Maintain an ergonomically ap	propriate wo	orking	environ	ment.	i	i				
Breathing equipment: Not req	uired.									
Recommended filter device fo	r short term									
Use a respirator with type N95	5 (USA) or F	PË (EN	l 143) c	artridges a	as a ba	ckup to	engineeri	ng con	trols.	
Risk assessment should be pe	erformed to	deterr	nine if a	air-purifyin	g respir	ators a	are approp	riate. O	nly	
use equipment tested and app	proved unde	er appi	ropriate	governme	ent stan	dards.				
Protection of hands: Not requi	red.							: • •		
Material of gloves										
Nitrile rubber, NBR	'	1	· · ·						· · · .	
Penetration time of glove mate	erial (in min	utes) 4	480		1					
Glove thickness 0.11 mm										
Eye protection: Safety glasses	S ,		, , ,	н н Н		н 1 — 1	н н Н	: ' '		
Body protection: Protective we	ork clothing	-	· · .			· · · .		1	Ч.,	
									;	
SECTION 9. PHYSI	CAL AI	ND (CHEN	/IICAL	PRO	PER	TIES			
Information on basic physical	and chemic	al pro	perties		: • •					
Appearance:		:	· · .					:	Ч.	
Form: Solid in various forms										
Color: Dark grey										
Odor: No data available			1						1	
Odor threshold: No data available	able.	1			1			1		
pH: N/A		:	· · · .			11. 1	¹	i.	· · .	

					1			
Melting point/Melting range: 2623 °C (4753 °F)	· · · .		:		¹	:	•••	*
Boiling point/Boiling range: 4639 °C (8382 °F)								
Sublimation temperature / start: No data availab	le					:		
Flammability (solid, gas): No data available.	1							
Ignition temperature: No data available								
Decomposition temperature: No data available			:	11. 1		:	11. 1	'
Autoignition: No data available.								
Danger of explosion: No data available.								
Explosion limits:						: • •		
Lower: No data available								
Upper: No data available				11		1	11	'
Vapor pressure: N/A				1		1	1	
Density at 20 °C (68 °F): 10.22 g/cm								
3	н 1 - 1				н н Н	: • •		
(85.286 lbs/gal)								
Relative density: No data available.								
Vapor density: N/A				1		1		
Evaporation rate: N/A								
Solubility in Water (H								
2			:	· · .		1	· · .	
O): No data available								
Partition coefficient (n-octanol/water): No data a	vailable	e.Viscosity	-	1	1.1.1	1	1	
Dynamic: N/A								
Kinematic: N/A	1 1		1					
Other information		'	:			:	11	*
No data available							:	

SECTION 10. STABILITY AND REACTIVITY

Reactivity

			1 1 1			1 1 1					
No data available	···.	'		· · .		:	· · .			· · .	
Chemical stability											
Stable under recommer	nded stor	age cond	litions.						1		
Thermal decomposition	/ conditio	ons to be	avoid	ed:							
Decomposition will not o	occur if u	sed and s	stored	accord	ding to sp	ecificati	ons.		1.1.1		
Possibility of hazardous											
Reacts with strong oxid	izing age	nts		ı			,				
Conditions to avoid	;					;			1		
No data available											
Incompatible materials:			,	1 1		ł		i.			
Acids	· · .		:	· · · .	· · · ¹	:	· · .	¹		· · · .	'
Oxidizing agents											
Hazardous decompositi											
Molybdenum oxides	1 1 - 1	i i	; ' '		1 - 1 1	111	: 		111		
										··.	'
SECTION 11. T	OXIC	OLOG	iICA	LIN	FORM	ΙΑΤΙΟ	ON				
	1										
Information on toxicolog											
Acute toxicity:					н н Н						
The Registry of Toxic E	ffects of (Chemical	Subs	tances	(RTECS) contaiı	ns acut	e toxicity	data for	this	
substance.											
LD/LC50 values that are	e relevan	t for class	sificati	on: No	data				1		
Skin irritation or corrosid	on: May o	cause irrit	tation								
Eye irritation or corrosio	on: May c	ause irrit	ation	, , ,			н 1 - 1	1 I			

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

		: 		: • •			111			111		
Toxicity												
Aquatic toxicity	/ <u>-</u>	11		:	· · ·	¹				÷	· · .	
No data availal	ble			1								
Persistence an												
No data availal	ble _; .		1 I				111		н н н	: • •		
Bioaccumulativ	ve poten	tial										
No data availal	ble	11 g		:	· · .	¹	÷	· · .	1.1	t.	11.	
Mobility in soil	1				1			1				
No data availal	ble											
Additional ecol	ogical in	formati	on:	111		1 I	111			111		

Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage

								,			,
systems.			;	· · · ,			· · .				'
Avoid transfer into the e	environ	ment.									
Results of PBT and vPv	vB asse	essment				1					
PBT: N/A											
vPvB: N/A						: * *					
Other adverse effects		¹	;	· · ·	¹		с.,	¹	e ^r		'
No data available			· .						1	1	

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods	¹	t.	· · .	1.1 ¹	t,	· · .	¹	t.		
Recommendation										
Consult official regulations to										
Uncleaned packagings:	н н н	: • •								
Recommendation: Disposal must be made acco					:	۰۰.	*	:	۰۰,	

SECTION 14. TRANSPORT INFORMATION

UN-Number			· · .			· · .	 e'	· · .	
DOT, ADN, IMDG, IATA N/A						:	 1	:	
UN proper shipping name DOT, ADN, IMDG, IATA	н н н			1 - 1 1	;···	н 1 - 1	 ;		
N/A	'	:	· · · .	'	1	· · ·	 : É	· · .	'
Transport hazard class(es) DOT, ADR, ADN, IMDG, IATA			1		` :	1	 1	1	
Class N/A	н н 1	:	1 1 1		:	н 1 — 1	 ;••		
Packing group			1 I 1	'	ľ		1		'

lditional info tant (DOT):	ormatio	on:	:						:		
lditional info	ormatio	on:									
lditional info	ormatio	on:									
				1					1		
1									1		
bulk accord	ling to	Annex II o	of MAR	POL73	/78 and th	ne IBC (Code		÷	11	'
		r			,			1			
		1 I		,	1 I						
al hazards:	N/A								:	:	
IATA	· · .			· · .			· · .	¹	a l	· · · .	'
	al hazards: autions for t bulk accord	al hazards:N/A autions for user bulk according to	al hazards:N/A autions for user bulk according to Annex II o	al hazards:N/A autions for user bulk according to Annex II of MAR	al hazards:N/A autions for user bulk according to Annex II of MARPOL73	al hazards:N/A autions for user	al hazards:N/A autions for user bulk according to Annex II of MARPOL73/78 and the IBC (al hazards:N/A autions for user bulk according to Annex II of MARPOL73/78 and the IBC Code	al hazards:N/A autions for user	al hazards:N/A autions for user	

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulat	ions/le	gislatio	n specific	for the	substa	nce or mix	kture	
National regulations	;							
All components of this product are listed	in the l	U.S. Er	nvironmen	tal Prot	ection /	Agency To	oxic	
Substances Control Act Chemical substa	ance In	ventory	/.					
All components of this product are listed	on the	Canad	ian Dome	stic Sul	ostance	es List (DS	SL).	
SARA Section 313 (specific toxic chemic	al listir	ngs)	¹		· · .		e e	
Substance is not listed.								
California Proposition 65								
Prop 65 - Chemicals known to cause car								
Substance is not listed.							; • •	
Prop 65 - Developmental toxicity	:		'		· · ·		e ^r	
Substance is not listed.		1					•	:
Prop 65 - Developmental toxicity, female		1		1	1		i	
Substance is not listed.	1 1 1 1	i.				н н н		
Prop 65 - Developmental toxicity, male			,					
Substance is not listed.		· · .	1 1 1		· · .			

Information about limitation of use:	:	· · .			· · .			· · .
For use only by technically qualified ir	ndividuals	i.						
Other regulations, limitations and prol	nibitive re	gulatio	ns					
Substance of Very High Concern (SV	HC) acco	rding t	o the RE	ACH Reg	gulatior	is (EC) N	lo. 1907/	2006.
Substance is not listed.		1			н 1. т.	1 - 1 1		
The conditions of restrictions accordin	ng to Artic	le 67 a	and Anne	x XVII of	the Re	gulation	(EC) ₂ No	
1907/2006 (REACH) for the manufact	turing, pla	icing o	n the mai	rket and	use mu	ist be ob	served.	
Substance is not listed.								
Annex XIV of the REACH Regulations	s (requirin	ig Auth	orisation	for use)				
Substance is not listed.								
REACH - Pre-registered substances		· · .	¹	e l'	· · .	'		· · ·
Substance is listed.	· .	;		۰.			· .	
Chemical safety assessment:	ï	,			I		,	
A Chemical Safety Assessment has n	ot been c	arried	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.