

SAFETY DATA SHEET

1. 1.			19. 19.		1.1.1	14			Date	Accesse	d: 25/08	8/2023
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				1 1 - 1			1 1 - 1					
	CTION 1											
	uct Name: ٦					1.		111			111	1
	#: 12037-58				.1	:		.:	:		.÷	:
	vant identifi		as of t	ha suhs	tanco: S	Scienti	fic rosoa	urch and	dovol	onment		
	lier details:				itançoi (Joiginti		ir en jairta		princine		
	ord Advance		terials									
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Addre	ess: 23661 E											
							1 1			1 1		
SEC	CTION 2	2. H <i>i</i>	٩ZAI	RDS I	DENI	IFIC	ΑΤΙΟ	N	1. 1.			1. 1.
Class	ification of t	he sub	ostance	e or mixt	ure	:		,÷	:		1	÷
The s	ubstance is	not cl	assifie	d accord	ing	'						
to the	Globally Ha	armon	ized Sy	/stem (G								
GHS	label elemei	nts										
not ap	oplicable		· .	, '	1	· .		,	1.	. '		1.
Hazaı	rd pictogram	is	i.	.÷	.÷	:			;		1	:
not ap	oplicable		'									
Signa	l word											
not ap	oplicable	:	1. 1.		: • •	1. 1.			1.		111	÷.,
Hazaı	rd statement											
						1		, î		. 1		

· ·			1									
not applicable				.1								
Precautionary st	ateme				'							
P262 Do not get	t in eye	es, on s	kin, or o	n clothing	· · '	, , ,		· · · '	1 1 - 1			
P280 Wear prote	ective	gloves/j	protectiv	e clothing	ı/eye p	orotectior	n/face pro	otection	l.			
P305+P351+P3	38 IF I	N EYES	S: Rinse	cautiously	y with	water for	r several	minute	s. Remo	ve conta	ct	
lenses, if preser	nt and e	easy to	do, Con	tinue rinsi	ng.	.:	.:					. 1
P304+P340 IF II	NHALE	ED: Rer	nove vic	tim to fres	sh air a	and keep	at rest i	n a pos	ition com	fortable	for	
breathing.						1 1						
P403+P233 Sto	re in a	well-ve	ntilated	place. Kee	ep cor	ntainer tig	ghtly clos	ed.				
P501 Dispose o	f conte	nts/con	tainer in	accordar	nce wit	:h		,	1			
local/regional/na	tional/	internat	tionalreg	ulations.	1						ť	
Classification sy	stem:				'							
NFPA ratings (s	cale 0	- 4)										
0 0 0	;**			;	14. 14.		; <i></i>				14. 14.	.'
0 : .	.1	1	.:	.1	i l	.:	.:			.1	÷	.:
Health = 0					'							
Fire = 0												
Reactivity = 0	; • •	1. 1.		111	1. 1.		: "	1. 1.		111	1. 1.	
HMIS-ratings (se		,		,			,					
HEALTH	.'	1	. '	1		. '						. '
FIRE		'			· · · ¹			· · · ¹				
REACTIVITY												
0					1. 1.		111	1. 1.		111		. '
0 0	.1	:		.1	:	.1	.1	a' i	.1	.1	:	.:
Health = 0		¹			'						¹	
Fire = 0												
Reactivity = 0	; • •	1. 1.			14					: * *	14	
Other hazards	, i		.:	.1	t.	.:	.1		.:	.:	:	.1

Results of PBT and vPvB assessment					.1	:	.1	.1	.1	.1		
PBT:												
N/A	н 1 - 1		1.1	1 1 1		· · '	1		 		1.1 ¹	,

Substances											
CAS # / Substance Na											
12037-58-0 Tungsten(IV) oxide	e (WO2.	9 Blue S	ub-oxio	de)						
at de dé			. :			.:				:	, i
SECTION 4. FI	RST			URE	S						
Description of first aid	measure	es									
General information:	14. 14.		1 1 1 1	1.		111	÷.,		: * *	1. 1.	
No special measures r	equired.		:	. '	.:	;	. '	:			:
If inhaled:	ı	1	1	1	1	1		1	1		
Supply fresh air; consu	It docto	r in case	e of comp	laints.							
In case of skin contact	:										
Generally the product of	does no	t irritate	the skin.				14		111	14	
In case of eye contact:	e.	.:	.:			.:					.:
Rinse opened eye for s	several										
minutes under running	water.										
If swallowed:											
If symptoms persist co	nsult do	ctor.					11.			1.1	. '
Most important sympto	mstand	effects,	both acu	ite and	delayed	.1			.1	1	.1
No data available				'				,			
Indication of any imme								1 1			
No data available						111			: * *	1.	

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media	'	1 1 - 1		¹	 			
Suitable extinguishing a	agents:							
CO2, extinguishing pov foam.				0				
Special hazards arising	from th	ie substan	ice or m	ixture				
No data available	'			¹			 	'
Advice for firefighters								
Protective equipment:	1. 1.			1. 1.		1.	: • •	
No special measures re	equired.				. 1	t.		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protect	ive equipn	nent an	d emer	gency pr	ocedure	S		111	14	
Not required.										
Environmental precautions:										
No special measures required	l.		'			'	н н н		'	
Methods and materials for cor	ntainment	and cle	anup:							
Pick up mechanically.			· .		ı	· .	. '	ı	· .	
Reference to other sections		.:	1	.: .:			, i	.1	t.	
See Section 7 for information	on safe ha	andling.								
See Section 8 for information	on person	al prote	ection e	equipmen	it.					
See Section 13 for disposal in	formation				: * *			: **	14. 14.	. '
at di di at										.:
SECTION 7. HAND			STO	RAGE					*	
Precautions for safe handling										
No special measures required	I		·						÷.,	

Information about protection against explosions and fires:

				1							'
No special measures re	quired	-		:	.:			.:	.:		. :
Conditions for safe stor	-	•	any inco	mpatibi	ilities:						
Requirements to be me	t by sto	prerooms	s and red	ceptacl	es:		'				
No special requirements	S.										
Information about stora	ge in o	ne comn	non stora	age fac	ility:		· · .				. '
Not required.		.: .:	.1	: 1			1			1	.:
Further information abo	ut stora	age conc	ditions:								
None.											,
Specific end use(s)				· .							
No data available	I			I	i.						,
			.1							:	.:
				'							
SECTION 8. EX	(POS	SURE	CON	ITRC)LS/P	ERSC	NAL				
PROTECTION	· .						÷.,			1. 1.	
Additional information a	bout d	esign of	technica	l syste	ms:						
No further data; see iter	m 7.										
Control parameters	'			'							
Components with limit v	/alues	that requ	lire mon	itoring	at the wo	orkplace:					
Not required.			;**				1. 1.		111	14	. '
Additional information:	. '	;	;	. '	.:	:	. '	:		. '	:
The lists that were valid							,				
Exposure controlsPerso	onal pro	otective	equipme	ent:			'				
General protective and	hygien	ic meası	ures:								
The usual precautionary	y meas	ures for	handling	g chem	icals sho	uld be fo	llowed.				. '
Breathing equipment:		.:	.1		.1			. I		1	.:
Not required.											
Protection of hands:	1.1	1 1		1.1	1 I						,
Protective gloves								,			
The glove material has	to be ir	npermea	able and	resista	ant to the	product/	the su	bstance/	the	· .	. '
preparation.	:		.÷	; '	. ÷	.1		.1	.1	:	. :

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of

quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and

has to be observed.

Eye protection:

Not required

	· · · · · · · · · · · · · · · · · · ·		; • •	14. 1		111	14	. '
SECTION 9. PHYSICAL AN		MICAL	PRO	PER	TIES	, i	i.	.:
Information on basic physical and chemica	al properties							
Appearance:								
Form: Powder or solid in various forms	··· · · ·		: * *	1.		: • •	1. 1.	. '
Color: Blue Odor: Odorless	di di	.÷	.:	i.	.:	.÷	t.	.:
Odor threshold: No data available.	···· ···'			¹				
pH: N/A								
Melting point/Melting range: No data avail	able.		: * *			: * *		. '
Boiling point/Boiling range: Undetermined	- 				.:	.:		. :
Flash point: N/A								
Flammability (solid, gas): Product is not fla	ammable.	1 1 1		' 	1 1 - 1		1.1 ¹	
Ignition temperature:								
Decomposition temperature: No data avai	ilable.		: * *			111		. '
Autoignition: No data available.					.:			

		1 1 1			1 1 1	· .				
Danger of explosion: Produc	ct does no	t present	t an exp	olosion h	azard.		.1	.1	e e	
Explosion limits:							,			
Lower: No data available.		1.1.1		н 1 1.						
Upper: No data available. Vapor pressure: no data hPa	a	:	с. С.		1 1 1 1			1 1 1 1	÷.,	
Density: No data available.				. :	.1	:	.:		e la	
Relative density No data available.										
Vapor density N/A									1.	
Evaporation rate			;		.1	:	1	1	÷.	
N/A Solubility in Water (H			'	1 1 - 1		'	н 1 — 1		¹	
2 ·,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			÷.,		1 - 1 - 1 1	1. 1.				
O): Insoluble. Partition coefficient (n-octan	ol/water):	No data	availab	le.	.1	: ¹	ji.	.1	:	
Viscosity:Dynamic: N/A			'				. :		'	
Organic solvents: 0.0 %			1. 1.		111	1. 1.				
Solids content: 100.0 % Other information	.÷	1	s'	.1	.1	e'	ji.	ji.	ť	
No data available	, , ,		¹	н 1 — 1					*	
the set of the the		;	1. 					111	1. 1.	
SECTION 10. STA	BILIT	YANE) RE		/ITY	ť		,ł	÷	

Reactivity

Chemical stability

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions

						'				
No dangerous reactions known	I. ₁₁	.:			.1			.:		
Conditions to avoid										
No data available	, , ,		· · '	, , ,		¹	н 1 1.		'	,
Incompatible materials:										
No data available						1.			11	. '
Hazardous decomposition proc	lucts:	.:	:		.1	t.	, i	.:	t.	.1
No dangerous decomposition p	oroducts l	nown.								
	1 I									

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: Primary irritant effect: on the skin: No irritant effect. on the eye: No irritating effect. Sensitization: No sensitizing effects known. Additional toxicological information: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us. The substance is not subject to classification. Carcinogenic categories IARC (International Agency for Research on Cancer) Substance is not listed. NTP (National Toxicology Program) Substance is not listed. OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

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SECTION 12.	ECOL	OGI(NFO	RMA 1	ΓΙΟΝ	ť	,÷	,÷	1	
Toxicity		1 1 1		'			1. ¹				
Aquatic toxicity:											
No data availablePers	sistence a	ind deg	radability	y .		111			:	14	
No data available	÷	.:	.÷	:	.:	j)	:		.:	: ¹	
Bioaccumulative pote	ential										
No data available					х 1 — 1						
Mobility in soil	14. 1										
No data available											
Additional ecological i	informatio	n:	.1	;	.1	.1	:	1		:	
Not known to be haza	ardous to v	water.		'	1		¹				
Results of PBT and vi	PvB asses	ssment			1 x						
PBT:	·		111	1. 1.		111	1. 1.			1. 1.	
N/A	. 1		1	. '	1	1	, t	1		.*	
/PvB:		.'	. '	1	, '			. '		:	
N/A	¹			¹	, , , ,					'	
Other adverse effects	3										
lo data available	14. 14.		111	1. 1.		111	1.		111	14	
	: '			; '		;			;	:	
SECTION 13.			100	Jeid	FRAT	IONS					
						IUnt					
Waste treatment meth		. '	: · ·	۰. ۱			· .			· .	
Disposal must be mad		ing to o	fficial reç	gulatior	IS.		ť	.÷	.1		
Uncleaned packaging				· · · [*]			¹				
Recommendation:											
Disposal must be mad	de accordi	ing to o	official rec	gulatior	IS.		1. 1.		:**	1. 1.	
		. :		1			:				

SECTION 14. TRANSPORT INFORMATION

UN-Number											,
DOT, ADN, IMDG, IATA											
not regulated						: • •	1.		; • •	14. 1	, '
UN proper shipping nam	e	.:	1			1			1		
DOT, ADN, IMDG, IATA											
not regulated	'	, , ,		· · '	· · ·		'				,
Transport hazard class(e	es)										
DOT, ADN, IMDG, IATA						: · ·	· · ·			14	. '
Class		.1				.:					
not regulated Packing group	'			· . '	n Al an		'				,
DOT, IMDG, IATA not regulated			1 - 1 - 1 1			1.1.1				5.	. '
Environmental hazards:		.1	.:	:					.:		
Marine pollutant:					4 4 - 4		'	4 4 - 4			
Special precautions for u	Iser						5. 19			1. 1.	. •
Transport in bulk accordi	ng to A	nnex II of	MARP	OL73/7	8 and the	BC Co	de	.:	.1	1	
N/A	-										

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture Sara

Section 355 (extremely hazardous substances):

Substance is not listed.

Section 313 (Specific toxic chemical listings):

	· .									1.	
Substance is not listed.		.1			.:		:		.1		.:
TSCA (Toxic Substance	es Contr	ol Act):									
Substance is not listed.	· · · [*]			'			'			'	
Proposition 65											
Chemicals known to cau	use can	cer:									
Substance is not listed.	:	.1					1		.1		.:
Chemicals known to cau	use repr	oductive	toxicity	for fer	nales:						
Substance is not listed.		1 I						1 1			
Chemicals known to cau	use repr	oductive	toxicity	for ma	ales:		· .				
Substance is not listed.					·		,				
Chemicals known to cau	use dev	elopment	al toxic	ity:					.1		.1
Substance is not listed.				¹							
Carcinogenic categories											
EPA (Environmental Pro	otection	Agency)		1.		: * *	1. 1.			1. 1.	
Substance is not listed.											
TLV (Threshold Limit Va	alue esta	ablished b	by ACC	SIH)			1		. '		. '
Substance is not listed.				¹			'			1. ¹	
NIOSH-Ca (National Ins	titute fo	r Occupa	tional \$	Safety	and Healt	h)					
Substance is not listed.	14. 19						1.		111		
GHS label elements	:	.:			.1	.:		.:			
not applicable											
Hazard pictograms		, , ,		'			· · · '			' 	
not applicable											
Signal word							· · .				. '
not applicable	:	.1					1		.1		.:
Hazard statements				'				1			
not applicable	•										
Precautionary statemen	ts			· .			· .	. '		· .	
P262 Do not get in eyes	, on ski	n, or on c	lothing		,						
P280 Wear protective gl	loves/pr	otective	lothing	g/eye p	rotection/	face pro	otection	<u>.</u> .	, i	t.	.1

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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.

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	1. 1.			1.		1 - 1 - 1 1			111		, ' ,	:	1. 1.	. '
	t.	.:	.:	÷		.1		.:	j) L	:	.:	.1	i'	.:
								. :			, , ,		*	
	14. 1		111	14. 14.		;	14. 14.		111	14. 14.		111	14. 1	. '
	:	.1	.:	÷		.1	;	.1	jî.	:	.:	.1	t.	. :