

SAFETY DATA SHEET

									Date	Accessed	: 25/00	8/2023
	11. 1	1 	1. 1.	· · ·	÷.,	1. 1.	· · ·	1	Dat	e Revised	: 04/12	2/202
SEC	TION	1. ID	ENT	IFICA								
	ct Name:				111	1		;**	1	н н н	: • •	÷.,
					1	۰.	· · .	·	1.		1.1	1. 1.
	ant identi											
	ier details									• • • •		
Stanfo		ced Ma	terials rials.coi	n M			1 I		1	• •		÷.,
Tel: (9	49) 407-8	904	1. 1.	· · .	·	1. 1.	· · .	1	1. 1.	· · .	·	÷.,
	ss: 23661											
	TION											
	fication ac	cording	g to Reę	gulation	(EC) No	1272/2	2008					
Flam.	Sol, 1 H22	28 Flam	nmable	solid.		·		;••	·			·
	ds not oth											
No dat	a availabl	e.	1	· · · .	·	14. 1	11 A	1 1	14		1.1	1.
Label	elements											
	ng accord											
The pr	oduct is c	lassifie	d and la	abeled a	ccording	to the	CLP reg	ulation.	1	н н н	111	÷.,
Hazaro	d pictogra	ms										

				1		1	1		1	1.1		
GHS02	·	1.	· · .	1	۰.		5	۰.		5	1. 1.	· · .
Signal word												
Danger												
Hazard statemer	nts											
H228 Flammable	e solid.	'					1.1	<u>`</u>			1 	
Precautionary sta smoking.	atemer	ntsP21() Keep a	way fror	n heat/	sparks/o	pen flam	es/hot	surfaces	No		···.
P280 Wear prote	ective g	loves/p	protective	clothin	g/eye p	rotectior	n/face pro	otection	···· I.			
P240 Ground/bo	nd con	tainer a		• ·	uipmen	t.						
P241 Use explos	sion-pro	oof eleo		ntilating	lighting	J/equipm	ient.	'		111	1	
P370+P378 In ca	ase of f	fire: Us	e for exti	nction: (CO2, po	owder or	water sp	oray.	· · · .	1	1. 1.	· · .
WHMIS classific												
B4 - Flammable							1 1					
Classification sys	stem	·		: • •	·			·		111	1	
HMIS ratings (sc	ale 0-4	l)	,									,
(Hazardous Mate	erials lo	dentific	ation Sys	tem)			1	1	11 A.	1		۰.
HEALTH												
FIRE												
REACTIVITY		1. 	н н н		1. j. j.	1 - 1 1	111	1	1 - 1 1		1	
1	·	1.	···.	·		· · .	·			·	÷.,	
2												
2	1 1 1											
Health (acute eff	ects) =	1										
Flammability = 2	1.1.1	`			1.1			1 		; · ·	1	
Physical Hazard	= 2	1. 1.	· · .	·	1.	· · · .	5	1. 1.		1	1. 1.	· · .
Other hazards												
Results of PBT a	and vPv	/B asse	essment:									
PBT:												
N/A.				1	1			<u> </u>			1 i i	1
vPvB:	1		· · .	·		· · .		1. 1.		1	14	· · .

N/A	·	• • •	5		11	·	14. 14.	· · .	1	14. 14.
			, , ,							
SECTION	3. COM	POSIT	ION/II	NFO	RMA1		II NC	IGRE	DIEN	TS
Chemical chara	cterization:	Mixtures	1.1.1	1.1	1 - 1 1		*	н н н		1
Dangerous com	ponents:		1		· · .	1		· · .	1	1. 1.
7440-32-6 Titan	ium									
Self-heat. 1, H2										
Additional inform	nation			·			·			·
None known.										
Non-Hazardous	Ingredients	· · ·	1 			1.1	÷.,	11	1.1	11
7732-18-5 Wate	er 30.0%									
SECTION						;··	1			1
Description of fi	1	· · .	_	_	_	1 		···.	÷	14. 1
If inhaled:										

Supply 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 doctorMost important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

No information available.

									· · · ·	
SECTION 5. FIR	EFIGHTI	NGN	IEAS	URES	5		··.	1.1	1. 1.	۰.,
Extinguishing media		, , ,			, , ,					
Suitable extinguishing me	dia									
Special powder for metal	fires. Do not ι	ise wate	er.	· · ·	: · ·	<u>'</u>	· · ·		1	
For safety reasons unsuit	able extinguis	hing me	edia		1	÷.,		5	1. 1.	
Water										
Special hazards arising fro										
If this product is involved i	in a fire, the fo	ollowing	can be	released	1:					
Titanium oxides						· · ·				
Advice for firefighters	1		1. 1.	11. 1	1	1. 1.	· · · .	1	14	•••,
Protective equipment:										
Wear self-contained respi										
Wear fully protective impe	ervious suit.		1			1	· · ·		1	
	· . · · · .	1. 	1. 1.	· · · .	·		· · .		1. 1.	···,
SECTION 6. ACC				SE M	EASU	JRES	5			
Personal precautions, pro	tective equipr	nent an	d emer	gency pro	ocedure	S				
Wear protective equipment	nt. Keep unpro	otected	person	s away.	:**	1		:**	1	
Ensure adequate ventilati	on	1						·		
Keep away from ignition s	ources									
Environmental precaution	S:	, , ,								
Do not allow product to re	ach sewage s	system	or any v	water cou	rse.					

Methods and material for containment and cleanup:

Ensure adequate ventilation.

Prevention of secondary hazards:

Keep away from ignition sources.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

			·			 				
See Section 13 for disposal ir	nformation.		1. 1.		1			1	1. 1.	
···· ··· ··· ···		, , ,			, , ,					
SECTION 7. HAND		ND	STO	RAGI	Ε					
Handling			·	1 - 1 1	1 1 1	1. 	1 - 1 - 1	1 - 1 - 1 1	1	,
Precautions for safe handling	· · ·	`	÷.,		1	14		1	1.	
Keep container tightly sealed										
Store in cool, dry place in tigh										
Ensure adequate ventilation.	1 I		·			·			·	
Information about protection a										
Protect against electrostatic o	harges.	·			1	14		1	14	
Conditions for safe storage, ir	ncluding an	ıy incol	mpatibi	lities						
Storage										
Requirements to be met by st	torerooms a	and red	ceptacl	es:		·			·	
Store in a cool location.Inform	nation abou	ıt stora	ge in o	ne comm	non stora	ige faci	lity:			
No data available.	11.	1	' • .		1 			1	1.	
Further information about sto	rage condit	ions:			, , ,					
Keep container tightly sealed										
Store in cool, dry conditions in	n well-seale	edicon	tainers		111	1	н н н	111	1	
Specific end use(s)										
No information 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:

monitored at the workp	lace.								
Additional information:		1 1							
No data Exposure controls	tan sa sa	;	`	1 - 1 1	;	1 - 1 1	1 1 1		÷.,
Personal protective equ	uipment				1	1. 1.	1. L.	1	÷.,
Follow typical general p	protective a	and industri	al hygien	ne measui	res for h	andling	chemica	als.	
Keep away from foodst	uffs, bever	ages and f	eed.						
Remove all soiled and	contamina	ted clothing	immedia	ately.		·			
Wash hands before bre	eaks and a	t the end of	work.	1					
Breathing equipment:			14	11. 1	1	1	11.	1	÷.,
Use suitable respirator	when high	concentrat	tions are	present.					
Recommended filter de	evice for sh	ort term us	e:						
Use a respirator with ty	vpe <u>N</u> 95 (U	SA) or PE	(EN 143)	cartridae	s as a b	ackup t	o engine	ering co	ntrol
			· · · · ·				, U	0	
Risk assessment shoul	ld be perfo					-	. –	-	
Risk assessment shoul use equipment tested a		rmed to de	termine il	f air-purify	resp	irators	are appr	-	
	and approv	rmed to de	termine il ppropriat	f air-purify te governi	ing resp ment sta	irators ndards	are appr	opriate.	
use equipment tested a	and approv	rmed to det ed under a	termine il ppropriat	f air-purify te governi	ing resp ment sta	irators ndards	are appr	opriate.	
use equipment tested a Protection of hands: Impervious gloves	and approv	rmed to del ed under a	termine if	f air-purify te governi	ng resp	irators ndards	are appr	opriate.	Only
use equipment tested a Protection of hands:	and approv	rmed to def ed under a	termine if	f air-purify	nent sta	irators ndards	are appr	opriate.	Only
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to a Suitability of gloves sho	and approv use. ould be def	rmed to def red under a	termine if ppropriat	f air-purify te governn	nent sta	irators ndards the lat	are appr	opriate.	Only vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to u Suitability of gloves sho by	and approv use. ould be def	rmed to def red under a	termine if ppropriat	f air-purify te governn	nent sta	irators ndards the lat	are appr	opriate.	Only vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to r Suitability of gloves sho by manufacturer.	and approv use. buld be def	rmed to def red under a	termine if	f air-purify te governm aterial and	ring resp ment sta	irators ndards the lat	are appr	opriate.	Only
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to u Suitability of gloves sho by manufacturer. Material of gloves	and approv use. buld be def	rmed to def red under a	termine if ppropriat oth by ma	f air-purify te governm	ring resp ment sta	irators ndards the lat	are appr	opriate.	Vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to a Suitability of gloves sho by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glov 480	and approv use. buld be def	rmed to def red under a rermined bo	termine if ppropriat oth by ma	f air-purify te governm aterial and	ring resp ment sta	irators ndards the lat	are appr	opriate.	Vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to r Suitability of gloves sho by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glov	and approv use. buld be def	rmed to def red under a rermined bo	termine if ppropriat oth by ma	f air-purify te governm aterial and	ring resp ment sta	irators ndards the lat	are appr	opriate.	Vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to a Suitability of gloves sho by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glov 480 Glove thickness 0.11 mm	and approv use. buld be def	rmed to def red under a	termine if ppropriat oth by ma	f air-purify te governm aterial and	ring resp ment sta	irators ndards the lat	are appr	opriate.	Vary
use equipment tested a Protection of hands: Impervious gloves Inspect gloves prior to a Suitability of gloves sho by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glov 480 Glove thickness 0.11 mm	and approv use. buld be def	rmed to def red under a rermined bo	termine if ppropriat oth by ma	f air-purify te governm aterial and	ring resp ment sta	irators ndards the lat	are appr	opriate.	Vary

Body protection		• .	· · .	·	· .	· · .	5	1. 1.	· · .	1	1. 1.	
Protective work												
SECTION	9. PHY				CHE	MICA	L PRO	OPEI	RTIES	; • •	·	
SECTION	-	_						_	_			•••
Information on b	asic phys	ical a	nd.cher	nical pro	operties	; '',	н. Стал	- - -	···.	1		
	asic phys m: Powde	ical a	nd.cher	nical pro	operties	; '',	н. Стал	- - -	···.	1		

	1 1			1 1					
Color: Dark gray									
Odor: Odorless		·		1 1 1 1	·			·	
Odor threshold: No data available.									
pH: N/A.	1 		11.		1		1		· · · .
Melting point/range: No data available.							. :		
Boiling point/range: No data available.									
Sublimation temperature / start: No data	availat	ole.	1 - 1 1		1		: • •	·	
Flammability (solid, gas):									
Highly flammable			· · ·						
Ignition temperature: No data available.									
Decomposition temperature: No data ava	ailable.								
Auto igniting: Product is not selfigniting.		1	1 - 1 1	1.1.1	·		111	1.1	
Danger of explosion: No data available.	·	·		·	·		·	·	
Explosion limits:									
Lower: No data available.									
Upper: No data available.									
Vapor pressure: N/A.		·	н н н		·			· · ·	
Density: No data available.		1. 1.	· · .	·	1. 1.		1	14	· · · .
Relative density									
No data available.									
Vapor density		·	1 I		·			·	
N/A.									
Evaporation rate	1	1	· · · ·	1	11	11	1		· · · .

					·							
N/A.	·	·	· · .	·	÷.,		·	·	· · .	1	·	
Solubility in Wate												
2	1			1								
O): Insoluble												
Partition coefficie	ent (n-o	ctanol/	/water): N	lo data a	availab	le.		1			·	
Viscosity:	·		· · .	·	1.	· · · .	1	1. 1.	· · .	1	1.	· · .
Dynamic: N/A.				,			,					
Kinematic: N/A.												
Solvent content:		·			·			·			·	
Organic solvents						,			,			
Solids content: 70	0.0 %	1.		1	1.	· · · .	1	14	11.	1.0	1	···.
Other information	۱											
No information av	valiable	Э.										
No information av												
											·	
SECTION 1			BILITY	AND		ACTI	/ITY		· .			•••
	10. S	TAB) RE			1. 1.	· · · · ·	1	·	· · ·
SECTION 1 Reactivity No data available	10. S	TAB) RE							
SECTION 1 Reactivity	10. S	TAB) RE							
SECTION 1 Reactivity No data available Chemical stability	10. S	TAB		.:	RE				· · ·		5	
SECTION 1 Reactivity No data available	10. S	TAB	orage co	nditions					· · ·		5	
SECTION 1 Reactivity No data available Chemical stability Stable under reco	IO. S	TAB	orage co itions to l	nditions be avoid	D RE				· .			•••
SECTION 1 Reactivity No data available Chemical stability Stable under reco Thermal decomp Decomposition w Possibility of haze	IO. S O mmer osition vill not o ardous	aded st / cond pccur if	orage co itions to l used an ons	nditions be avoic d storec	D RE	ding to s	pecificati	ions.	••••			· · ·
SECTION 1 Reactivity No data available Chemical stability Stable under reco Thermal decomp Decomposition w	IO. S O mmer osition vill not o ardous	aded st / cond pccur if	orage co itions to l used an ons	nditions be avoic d storec	D RE	ding to s	pecificati	ions.	••••			· · ·
SECTION 1 Reactivity No data available Chemical stability Stable under reco Thermal decomp Decomposition w Possibility of haze	IO. S O mmer osition vill not o ardous actions	aded st / cond occur if reactions known	orage co itions to l used an ons n	nditions be avoic d storec	D RE	ding to s	pecificati	ions.				
SECTION 1 Reactivity No data available Chemical stability Stable under reco Thermal decomp Decomposition w Possibility of haze No dangerous reco Conditions to avo No information av	IO. S IO. S	oded st / cond occur if reactions known	orage co itions to l used an ons n	nditions be avoid d stored	D RE	ding to s	pecificati	ons.				
SECTION 1 Reactivity No data available Chemical stability Stable under reco Thermal decomp Decomposition w Possibility of haze No dangerous rea Conditions to avo	IO. S IO. S ommer osition vill not o ardous actions oid vailable	TAB aded st / cond cccur if reactions known c.	orage co itions to l used an ons n	nditions be avoid d stored	D RE	ding to s	pecificati	ons.				•••

No data available. Hazardous decomposition products:

Titanium oxides

		1			1			1			
SECTION 11. T	OXIC	COLO	GICA		FORI	MATIO	ON	···.	1 	1. 1.	
Information on toxicolog	ical eff	ects									
Acute toxicity:											
N/A	1	н н н		1	1 - 1 1	111	1	· · ·	111	1	
LD/LC50 values that are	e releva	ant for cla	ssificat	ion:	· · .	·	۰.	· · .	1		
No data			1								
Skin irritation or corrosic	on:										
May cause irritation Eye irritation or corrosio						111	1			1	
May cause irritation	1. 1.	с.,	1		· · .	5	1.	· · .	1	14	
Sensitization:			,								
No sensitizing effects kr											
Germ cell mutagenicity:			; • •	·			·			·	
N/A											
Carcinogenicity:	1	11.	1.1		11	1	1	11	1		
The Registry of Toxic E	ffects o	f Chemic	al Subs	stances	(RTECS	S) contai	ns tumo	origenic a	and/or		
carcinogenic and/or nec	plastic	data for	compor	nents ir	this pro	duct.					
No classification data or	n carcir	logenic p	ropertie	es of th	s materi	al is avai	lable fr	om the E	PA, IAR	C, [*]	
NTP, OSHA or ACGIH. Reproductive toxicity:	14. 1		1	14. 14.	· · .	1	14. 14.	··.,	1 1	14. 14.	
The Registry of Toxic E	ffects o	f Chemic	al Subs	stances	(RTECS	S) contai	ns repr	oductive	data for		
components in this prod											
Specific target organ sy	stem to	oxicity - re	epeated	expos	ure:	111	1		111	1	
N/A	۰.	· · .	1 	1. 1.	· · .	5	1. 1.	· · .	1	1. 1.	
Specific target organ sy N/A	stem to	oxicity - si	ngle ex	posure	:						
Aspiration hazard: N/A	1. 			·		111	·			·	,
Subacute to chronic tox	icity:		1	14. 14.	· · · .	1	1. 1.		1	14. 14.	

N/A	1	1.	· · .	·	۰.	· · .	1	÷.,	· · .	·	1. 1.	
Additional toxico	•											
To the best of ou	ır knowle	edge th	ne acute	e and ch	ronic to	oxicity of	this subs	stance i	s not full	y known		
Carcinogenic ca	0											
Carcinogenic ca OSHA-Ca (Occu		Safety	y & Hea	llth Admi	inistrati	on)		1	• :	:	·	

SECTION 12. ECOLOGICAL INFORMATION

Toxicity	··· · · · ·						1 1			· · ·	
Aquatic toxicity:		11. 1	1	1. 1.		1	14. 14.	· · .	1	14. 14.	
No information a											
Persistence and											
No information a	vailable.			1			1	1 I		1	
Bioaccumulative No information a	•	··	·		· · .	·	, ,	۰.	÷		
Mobility in soil:											
No information a	vailable.										
Additional ecolog	gical informat	tion:		·	1 I 1		1	н н н	: ' '	1	
General notes:		· · .	5	·	· · .	1	÷.,	···.	·		
Avoid transfer in											
PBT:											
N/A.		1 1	1 1 1 1	1		1 1 1 1	1			1	
vPvB:	·		·	•		·	· .		·		
Other adverse e											
No information a			, , ,			н 1 — 1					
				1. 			1. 		111	1	

SECTION 13. DISPOSAL CONSIDERATIONS

				1						
Waste treatment methods		1			·	1.	· · .	1	1. 1.	
Recommendation:										
Consult state, local or nation	al regulatio	ons to en	sure prop	per disp	osal.					
Uncleaned packagings: Recommendation:		;		1 I 1		·	1 1 1		5	
Disposal must be made acco	ording to of	ficial reg	ulations.		1	1. 1.		1	14. 14.	۰۰,

SECTION 14. TRANSPORT INFORMATION

		1.1.1			·			1.1.1			1.1	
UN-Number												
DOT, IMDG, IAT	Ā	14		1		11. 1	1	14		1.1	1	
UN1352												
UN proper shipp	ing nar	me										
DOT		·			·			1		: • •	1.1	
Titanium powde							1					
IMDG, IATA		· .				· · ·		· ·	· · .			
TITANIUM POW	/DER, \	WETTE										
Transport hazar	d class	(es)										
DOT		1.1	н н н	111	1.1	н н н	1.1.1	1	1 - 1 1	111	1	
Class	·	·		·	· .		·	÷.,	· · .	·	·	
4.1 Flammable s												
Label	1 1 1											
4.1												
Class	; · · ·	1. i i			1. j. j.			1. j. j.		111	1 1	
4.1 (F3) Flamma	able sol	ids, sel	f-reactive	e substa	nces a	nd solid (desensit	ised ex	plosives	1		
Label 4.1							1 1 - 1					
IMDG, IATA Class		°		:			:	·		;**	`	
4.1 Flammable	solids, s	self-rea	ctive sub	stances	and so	olid dese	nsitised	explosiv	/es.	1.1	14	

			1 1 1			111	· · ·			
Label		· · .	·		· · .	1	1.	с. С.	1	
<u>م</u> 1										
Packing group			1							
DOT, IMDG, IATA										
na ng an II	1			`			`			1
Environmental hazards:	: 14,	· · ·	·	1.	· · .	·	1.	· · · .	1	1. 1.
Marine pollutant (IMDG):									
No										
Special precautions for	user	1 I		·			·			·
Warning: Flammable so	olids, self	-reactive	substa	ances a	ind solid d	esensiti	sed ex	plosives		
EMS Number: F-A,S-JS	Segregati	on group	S		· · .	1		· · · ·	1	
Powdered metals										
Transport in bulk accord										
N/A.	1	· · ·		1	· · ·	; · · ·	1	н н н	; • •	1
Transport/Additional info										
DOT			·			·				
Marine Pollutant (DOT):										
No										
UN "Model Regulation":		· · ·		1. 	н н н		1. 			1
UN1352, Titanium powo	der, wette	ed, 4.1, II	1	14. 14.		1	14. 1	··.	5	14.
SECTION 15. R	REGUI	LATO	RY I	NFO	RMAT	ION				
	·			·	i i	: • •	·		: * *	·

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)

None of the ingredients are listed.

	1	1 1 1		1		· · ·	1		· · ·	
California Proposition 65	•••	·	·		·	·	· · ·	·	1.	
Prop 65 - Chemicals known to ca	ause cano	cer								
None of the ingredients are listed	d.	1								
Prop 65 - Developmental toxicity										
None of the ingredients are listed			`			1 			1	
Prop 65 - Developmental toxicity	, female				·		· · .	1	1. 1.	··.
None of the ingredients are listed	d.	ı								
Prop 65 - Developmental toxicity	, male	1 1								
None of the ingredients are listed	d.,		·			·			·	
Information about limitation of us	se:			1						
For use only by technically quali	fied indivi	duals.			1 	1		1	14	۰.
Other regulations, limitations and	d prohibiti	ve reg	ulations	S , , ,						
Substance of Very High Concerr	n (SVHC)	accord	ding to	the REAC	H Regu	ulations	(EC) No.	1907/2	006.	
None of the ingredients are listed	d.	1 1 1 1	·			1		: • •	·	
The conditions of restrictions acc	cording to	Article	e 67 an	d Annex X	(VII of t	he Reg	ulation (E	C) No		
1907/2006 (REACH) for the mar	nufacturin	g, plac	ing on	the marke	t and u	se mus	t be obsei	rved.		· · · .
None of the ingredients is listed.		1 1 1								
Annex XIV of the REACH Regula	ations (re	quiring	Autho	risation for	r use)					
None of the ingredients is listed.		· · · · ·	1. 		1.1.1			111	1 1	
Chemical safety assessment:		·			·	· .		·		
A Chemical Safety Assessment										
		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.