

## SAFETY DATA SHEET

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SEC	CTION	1. ID	ENT	IFICA								
	н 1 - 1	111		1 1 1		н 1 - 1	1 1 - 1	111			111	
Produ	uct Name	e: Titani	um Bor	ide Nanc	particles	6						
CAS	#: 12045-	-63-5	·	1. i i i	:	1			1.1	1.1		<b>`</b>
Relev	vant iden	tified us	sestoft	the subs	stance: S	Scienti	fic resea	rch and	l develo	opment	. :	÷.,
Supp	lier detai	ls:										
			torials									
Stanfo	ord Advar	nced Ma	licijais									
Stanfo E-mai	ord Advar il: sales@	nced Ma )samate	rials.co	m	,		1 1		1 1		111	
E-mai	ord Advar il: sales@ 949) 407-	)samate	rials.co	m								
E-mai Tel: (9	il: sales@	)samate 8904	rials.co	<b>m</b>		5						

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

Classification of the substance or mixture

Labelling N/A Hazard p N/A Signal wo N/A	ments according ictograms	to Regu	ulation (E	C) No 12	72/2008	3	a' i	1 1	<b>1</b>	ť	1	·
N/A Hazard p N/A Signal wo N/A	ictograms	: · · ·										
N/A Hazard p N/A Signal wo N/A	ictograms											
N/A Signal wo					ı							
N/A Signal wo N/A											1	
N/A				,		1 1						
N/A	ord	1	1	:	1.1	1	:	1 1	1	e <sup>r</sup>	1. j.	÷.,
								:			1	
	tatements				,							
N/A				: • •						111		
WHMIS o	lassificatio	onNot co	ontrolled									
Classifica	tion syste	m	· · ·	ť		·			·	1	·	·
HMIS rat	ngs (scale	e 0-4)						1				
(Hazardo	us Materia	als Identi	ification S	System)								
HEALTH			1 1 - 1		, , ,	н 1 — 1	: ' '				, , ,	
FIRE REACTI\			÷.,	ť		· · · ·	:		1	:	1	·
1 : : 0	, ,	:		, , ,	1,			÷.,			4,	
-				;··			:**		1 1 - 1		1 1 - 1	
	cute effect	ts) = 1	Ч.,	:	1	1		·	1	÷	÷	÷.,
Flammab	Hazard =	4			1			÷.		. :	1	
		1										
Other ha	f PBT and	l vPvB a	ssessme	nt			111				, , ,	
					·	1		·	·		·	
N/A												
vPvB:			, , ,		1			÷.,			÷.	
N/A				111	, , ,				н 1 — 1			
		· · · ·			·			5. 191	1		1	·

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		1 1 - 1	1						1	
CAS No. / Substance Na	me:									
12045-63-5 Titanium bor	ide	111	1 1 - 1	, , ,				111		
Identification number(s):	·	. '	·	1		·	1		·	
EC number:										
234-961-4	1. <u>1</u> .	, , ,	÷.,	4 4 - 4		÷.,				
the the second	· · ·	1 - 1 - 1 1						1.1.1		:
SECTION 4. FIR	ST AID	MEAS	URE	S		·	1		·	
Description of first aid me If inhaled:	easures		1			1			1,	
Supply patient with fresh	air. If not bre	athing, p	rovide	artificial re	spiratio	on. Kee	p patient	warm.		
Seek immediate medical	advice.			, , ,	,		1 I			
In case of skin contact:	1		·	1	:	·	1	t.	<b>'</b>	
Immediately wash with so	pap and wate	r; rinse t	horoug	hly,						
Seek immediate medical	advice.									
In case of eye contact:		; • •			1 1 1 1			; • •		
Rinse opened eye for sev										
If swallowed:	· · · · · · · · · · · · · · · · · · ·	:	1		t.	1 1	1	t.	1 1	
Seek medical treatment.	:				, , ,					
Information for doctor										
Most important symptom	s and effects	both ac	uteiand	l delayed	: * *			111		
No data available	· ·	. '	·	·	. '	·	·		·	
Indication of any immedia										
No data available		, , ,	1	1 1 - 1					1	

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

	1 1										
Extinguishing media	1	1		1. 	1	÷.	1	1	e.	1	·
Suitable extinguishing a	gents										
Product is not flammabl	e. Use	fire-fighti	ng mea	asures t	hat suit t	he surro	unding	fire.			
Special hazards arising	from th	ne substa	nce or	mixture	•						
If this product is involve	d in a f	ire, the fo	llowing	can be	release	d:		н 1			
Metal oxide fume	1	1	;	·	1. a.	:'	·	1	e <sup>r</sup>	1	÷.,
Boron oxide Advice for firefighters	1			÷.,			÷.,			1	:
Protective equipment:			111	1 1 - 1		111	н 1 — 1		:**		
Wear self-contained res	•		ť				1	·	;	·	÷.,
	1.					, ,					

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipmer	nt and	l emerç	gency pro	cedures					
Use personal protective equipment. Keep	unpro	otected	persons a	away.					
Ensure adequate ventilation			1 1 1					1	
Environmental precautions:									
Do not allow material to be released to the	envir	ronmer	nt without	official p	permits		: ' '		
Do not allow product to enter drains, sewa	ge sy	stems,	or other w	vater co	urses.	1		·	
Do not allow material to penetrate the grou									
Methods and materials for containment an	d clea	anup:	н н н	1				1	
Pick up mechanically.									
Prevention of secondary hazards:		1 1 1	1 1 - 1			н 1 - 1			
No special measures required.	:	1	1	:	1 1	1		1	
Reference to other sections See Section 7 for information on safe hand	dling	1			÷.	н 1 - 1		:.	
See Section 8 for information on personal	prote	ction e	quipment.						
See Section 13 for disposal information.			· · ·	,					
		·	· · · ·		· · · ·	1		· · · ·	

SECTION 7. HANDLING AND STORAGE Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers. Specific end use(s) No data available SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Additional information about design of technical systems: Property 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: Nore. Additional information: No data							
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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:         None.         Additional information:							
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Control parameters Components with limit values that require monitoring at the workplace: None. Additional information:	Properly operating chemical fume hood designed for hazardous	chemio	cals and	d having	an avera	age	
Control parameters Components with limit values that require monitoring at the workplace: None. Additional information:	face velocity of at least 100 feet per minute.	. '	·	1		·	·
None. Additional information:	Control parameters						
Additional information:	Components with limit values that require monitoring at the work	place:	1	н 1 - 1		1	
No data wa ana ana ana ana ana ana ana ana ana	Additional information:	; • •	н 1 — 1	н 1 - 1	111	н 1 - 1	
	No data wa sa	;	1	1	:	1	·

		1									
Exposure controls	1	1		·	1		·	5		1	·
Personal protective equ											
Follow typical protective	e and h	ygienic pra		for ha		emicals.					
Keep away from foodst	uffs, be	verages a	nd fee	d.							
Remove all soiled and o	contami	inated clot	thing in	nmedia	tely.	1	1 1			1	
Wash hands before bre	aks and	d at the er	nd of w	ork.	1. 		1	1	i l	1	÷.,
Maintain an ergonomica		1		1	1		:			:	
Breathing equipment:	·			1							
Use suitable respirator		igh conce								1	
Protection of hands:											
Impervious gloves	1.0	1.00	:		1	t.	1 1	1		1.1	1
Inspect gloves prior to u	lse.	н 1 — 1		1							
Suitability of gloves sho	uld be	determine	d both	by ma	erial and	quality,	the lat	ter of whi	ch may v	/ary	
by			: · · ·	1 1 - 1	н 1 — 1	:**			111		
manufacturer.				·	1			5			
Penetration time of glov	e mate	rial (in mir	nutes)								
		н 1 - 1	, , ,	1	н 1 — 1		1			1	
Eye protection:											
Safety glasses		н н н		1 1 - 1	н 1 — 1			н 1 - 1	111		
Body protection:	1	1		1. 			·	5		1	·
Protective work clothing	)										
			1 1								
SECTION 9. PH	IYSI	CAL A	ND (	CHE	MICAL	- PRC	)PEI	RTIES			
Information on basic ph	veical	and chemi	cal pro	nortios			1 1				
	ysicara		cai più	perties	1	t.		1		1.1	·
Appearance: Form: Powder or solid i	n vario	is forms		1							
Color: Grey		101110									
				1 1 - 1		: * *			: * *		

Odor threshold: No data available.

						1					
pH: N/A				·	1		1	1	:	1	·
Melting point/Mell	ting range	e: 3225 °C	(5837 °F)								
Boiling point/Boili	ng range:	No data a	vailable	· ,			1.				
Sublimation temp											
Flammability (soli	d, gas)		111	1 1		ł	1 1		,		
No data available	- :' ''				1		1.1	1	t.	1.1	÷
Ignition temperatu	ure: No da	ata availab	le	1	: .		1			:	: .
Decomposition te	mperatur	e: No data									
Autoignition: No c	lata avail	able.									: .
Danger of explosi											
Explosion limits:											·
Lower: No data a	vailableU	pper: No d	ata availa	ble			1	: .		1	· · ·
Vapor pressure: N											
Density at 20 °C (	(68 °F): 4	.38 g/cm			н 1. т.	1 1 1 1			111		
3				·	1		5	1	:	÷	·
(36.551 lbs/gal)											
Relative density		, , , ,					1			1	
No data available											
Vapor density											
N/A				·	1.0		1.1	1		1	÷
Evaporation rate											
1 4/7 X				,							
Solubility in Wate						111			: • •		
-											
O): Insoluble							1 	1		1	·
Partition coefficie	nt (n-octa	inol/water):	no data a	avallap	le.	, 1 1				1	: .
Viscosity:											
Dynamic: N/A Kinematic: N/A		, , , , , ,			: 			:			
Other information			. '	·	1		1	·		·	·
	,										
		1									

No data available	1	1	:	·		:	·	<b>1</b>	ť	5	۰.
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SECTION 10. S	<b>STAB</b>	ILITY		RE	ΑΟΤΙ	/ITY					
Reactivity	н 1 — 1				н 1 — 1	111		н 1 — 1	; • •		1
No data available	·	1	;	·	1 	ť	1	1	: É	·	
Chemical stability Stable under recomme		orage cor					÷.,			÷.	
Thermal decomposition	n / cond	itions to b	e avoic	ded:							
Decomposition will not	occur if	used and	stored	accor	ding to s	pecificat	ons.				
Possibility of hazardous	s reactio	ons	;	<b>1</b>	1.1		1	1	t,	<b>'</b>	1.
Reacts with strong oxid	lizing aç	gents									
Conditions to avoid											
No data available			1.1.1			; • •			;**		
Incompatible materials: Oxidizing agents	· · · ·	·	:	1	1.		·	<b>'</b>	, <sup>1</sup>	÷	·
Hazardous decomposit	ion <sup>°</sup> proo	ducts:	1		н 1 — 1	н 1 — 1				1	
Metal oxide fume											
Boron oxide	н 1. т.				н 1. т.	; · · ·			111		
the state of the	1 	1	;	1	1. i i		1	1	1	·	·
SECTION 11. T	ΟΧΙΟ	COLO	GICA		IFORI	ΜΑΤΙΟ	ON			1,	
Information on toxicolog											
Acute toxicity:									111		
The Registry of Toxic E	Effects o	of Chemic	al Subs	stances	(RTECS	S) contai	ns acut	e toxicity	data for	<b>1</b>	·
components in this prod LD/LC50 values that ar	1				1 1 - 1	1 1 - 1			, , ,		
No data Skin irritation or corrosi			;	, , ,		1.1			;		
May cause irritation	1 	·	:	1. 		l.	1 1		, î	5 1	·

		1 1 1			1			1 1 1		
Eye irritation or corrosion:	1	:	·	1		1	1		·	·
May cause irritation										
Sensitization:										
No sensitizing effects known										
Germ cell mutagenicity:										
No effects known.Carcinoge	enicity:	:	·	1	:	<b>1</b>	1	e l'	1	·
EPA-I: Data are inadequate	for an ass	essment	ofhun	nan carc	inogenic	potenti	al.			
Reproductive toxicity:	1 1	1 1	I			,			,	
No effects known.			1							
Specific target organ system										
No effects known.	1 	:		1	:	1.1	1	t,	1.1	·
Specific target organ system	n toxicity -	single ex	poșure			1				
No effects known.										
Aspiration hazard:		: ' '						111		
No effects known.										,
Subacute to chronic toxicity	·	;			;					
No effects known.	, , ,					1	н 1 - 1			
Additional toxicological infor	mation:									
To the best of our knowledg	e the acut	e and ch	ronic to	oxicity of	this subs	tance i	s not full	y known.		
		:	1	1. 	:	1	1. 		1	·
SECTION 12. ECC	DLOGI		NFO	RMA <sup>-</sup>	ΓΙΟΝ	1				
Toxicity										
Aquatic toxicity:			1 1 1			, , ,			, , ,	
No data available	1	:	1. 	1		1	1		1	·
Persistence and degradabili	ity									
No data available			1	1 - 1			1 - 1			

Bioaccumulative potential

No data available Mobility in soil

· · · · · · · · · · ·	і і і	I I								
No data available			·	1		1	1		1	·
Additional ecological infor	mation:									
Do not allow material to be	e released t	o the env	ironme	nt withou	ut official	permit	S.			
Avoid transfer into the env	vironment.									
Results of PBT and vPvB	assessmen	t				1 1	1 1	1		
PBT:		: '	1	1.00	e <sup>r</sup>	1 1	1	:	1	÷.,
N/A vPvB:	i	1 1 - 1	1	н 1 — 1		;				
N/A Other adverse effects										
No data available			1	1.00	e <sup>r</sup>	1 1	1.1	e e e	1	÷.,
									1	
SECTION 13. DIS	SPOSA		ISID	ERAT	IONS					
Waste treatment methods Recommendation		e <sup>r</sup>	<b>1</b>	1	4 1 1		ч - на	ť	1	÷.,
Consult official regulations	to ensure	proper dis	sposal.							
Uncleaned packagings:										
Recommendation:										
Disposal must be made a	ccording to	official reo	gulatior	<b>IS</b> .		1	1		1	÷.,
						÷.,	н 1 - 1		:,	
SECTION 14. TR										
UN-Number						1 1				
DOT, ADN, IMDG, IATAN	/A ***	1	1.1	·	: <sup>1</sup>	1.1	1.11		1	·
UN proper shipping name DOT, ADN, IMDG, IATA	i. :.		t <sub>e</sub>			÷.,	н 1 - 1		÷.,	
N/A Transport hazard class(es			, , ,	1 1 - 1						
DOT, ADR, ADN, IMDG, I	ATA		1		:	1	1		1	÷.,

					1 1						
: <sup>1</sup>	·	5	:	1	1	:1	1	1	:	1	·
	÷.			÷.,			÷.,		. :	1	
	: : .	н 1 - 1	: • • • •		1 1 - 1	1 1 1 1			(** 1		
nazards	: N/A	1		1. j.	1		1	1	:	1	·
				1			:		1 1 1	:	
k accor	ding to	Annex II	of MAR	POL73	/78 and	the IBC (	Code		(** 1		: .
onal inf	formatio	on: DOT	:		1	e <sup>r</sup>	1 	1 1	ť	1	·
t (DOT)	): No		, , ,							1	
	TA nazards ions for k accor onal in	TA hazards: N/A ions for user k according to	TA nazards: N/A ions for user k according to Annex II onal information: DOT	TA nazards: N/A ions for user k according to Annex II of MAR onal information: DOT	TA hazards: N/A ions for user k according to Annex II of MARPOL73 onal information: DOT	TA nazards: N/A ions for user k according to Annex II of MARPOL73/78 and onal information: DOT	TA nazards: N/A ions for user k according to Annex II of MARPOL73/78 and the IBC ( onal information: DOT	TA mazards: N/A ions for user k according to Annex II of MARPOL73/78 and the IBC Code onal information: DOT	TA hazards: N/A ions for user k according to Annex II of MARPOL73/78 and the IBC Code ional information: DOT	TA hazards: N/A k according to Annex II of MARPOL73/78 and the IBC Code hazards: DOT	hazards: N/A ions for user k according to Annex II of MARPOL73/78 and the IBC Code

# SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regula	tions/le	gislatio	on specifi	c for the	substa	ince or m	nixture	
National regulations	, , ,	1			1			1
All components of this product are listed	in the	U.S. Er	nvironme	ental Prot	ection	Agency <sup>-</sup>	Toxic	
Substances Control Act Chemical substa	ance In	ventory	/-	111	1	н 1. т.	111	
All components of this product are listed	on the	Canad	lian Dom	estic Sul	ostanc	es List (D	OSL).	·
SARA Section 313 (specific toxic chemic		• ·						
Substance is not listed.				1 1	1			÷.
California Proposition 65								
Prop 65 - Chemicals known to cause ca	ncer		н н н		1			
Substance is not listed.		<b>1</b>	1		·	1.1	:	÷.,
Prop 65 - Developmental toxicity Substance is not listed.		÷.						÷.
Prop 65 - Developmental toxicity, female Substance is not listed.	;	н 1 — 1						
Prop 65 - Developmental toxicity, male	:	1	1	i.	1 	1	t,	1 

Substance is not listed.	1 	:	·	1	:	·	·	:	·	
Information about limitation of										
For use only by technically qu	alified indiv	iduals.		1 1 1					1	
Other regulations, limitations and prohibitive regulations										
Substance of Very High Conc	ern (SVHC	) accore	ding to							
Substance is not listed.	1	:	1	1		1	1	:	·	
The conditions of restrictions	according to	o Article	e 67 an	d Annex X	VII of t	he Reg	ulation (E	C) No	;	
1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.										
Substance is not listed.				1				:		
Annex XIV of the REACH Regulations (requiring Authorisation for use)										
Substance is not listed.	1 1			1		1 1	1	:	1 	
REACH - Pre-registered subs	stances							. :		
Substance is listed.										
Chemical safety assessment:				1 1 1			н 1 - 1	:		
A Chemical Safety Assessment has not been carried out.										
	1.00	:	1	·		1.00	1.0		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.