

# SAFETY DATA SHEET

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### **SECTION 1. IDENTIFICATION**

**Product Name:** Sodium Tungstate Dihydrate

CAS #: 10213-10-2

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

### **SECTION 2. HAZARDS IDENTIFICATION**

Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS)

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Eye Irrit. 2A H319 Causes serious eye irritation.

Hazards not otherwise classified

No data available

GHS label elements

GHS label elements, including precautionary statements

Hazard pictograms

GHS07

Signal word	·;			·:			·;			1
Warning										
Hazard statemen	ts	, ' '	· ' ' .		. ' '			. ' '	10	
H302 Harmful if s	wallow	ed.								
H319 Causes ser	ious ey	∕e irrita	tion.							:
Precautionary sta			-							
P264 Wash thoro	ughly a	after ha	indling.			1			1.	
P305+P351+P33	8 IF IN	EYES	: Rinse ca	utiously	with w	ater for se	everal m	ninutes.	Remove	contact
lenses, if present	and ea	asy to c	lo. Contin	ue rinsir	ng.		: ' '			: ' '
P301+P312 IF SV	VALLO	WED:	Call a PO	ISON C	ENTER	R/doctor/	./if you	feel un	well.	1
P337+P313 If eye	irritati	on per	sists: Get	medica	l advice	e/attention				
P501 Dispose of	conten	ts/cont	ainer in ac	ccordan	ce with	local/region	onal/		·,	
national/internation	nal reg	gulation	ıs.							
WHMIS classifica				,			,			
D2B - Toxic mate	rial cau	using o	ther toxic	effects			1			·:
Classification sys	tem	,	4,		, , ,	1		,	4,	
HMIS ratings (sca										
(Hazardous Mate	rials Id	entifica	ition Syste	em)			: ' '			: ' '
HEALTH										
FIRE	· :	. :		`: -		.''	`: -			`: 
REACTIVITY		, ' '	1.	: .		1			٠,	
2										
0	: ' '						; ' '			: ' '
1 Health (acute effe	ects) = :	2								
Flammability = 0	: .	, ' '	1.		, ' '	14.		. ' '	1.	
Physical Hazard	= 1									
Other hazards				111			(''			: ' '
Desults of DRT a	ad vDvl	B acco	cement							

N/A											
vPvB:	1.		. * *	1		, ' '	1			1	
N/A			: .		111			111			:''
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											DIENT
Substa		: .	. **	14.	: .	, ' '	14,	: .	.''	14.	
CAS N	o. / Sub	staņçe N	Name:								
		dium tui	ngsten	oxide dil	hydrate						
Identifi	cation n	umber(s	s): ' '		`:		. '	·:			1
E <sub>i</sub> C <sub>i</sub> nur	nber:			٠,						1	
236-74	3-4										
	1.1.1	1			1	1 1		,			,
SEC	TION	4. FI	RST	AID I	MEAS	URE	S	1			1:
Descrip	otion of t	first aid ı	measur	es			14			1.	
If inhale	ed:										
Supply	patient	with fres	sh air. I	f not bre	athing, p	rovide	artificial ı	espiratio	n. Kee	p patient	warm.
Seek ir	nmediat	e medic	al advi	ce.	4						
In case	of skin	contact:	:								
Immed	iately wa	ash with	soap a	and wate	r; rinse t	horoug	hly.			1.	
Seek ir	nmediat	e medic									
In case	of eye	contact:			!''			!''			!''
Rinse	pened	eye for s	several	minutes	under ru	unning v	water. Co	onsult a <sub>l</sub>	ohysicia	an.	1
If swall		,									
Seek m				nation fo		, ' '	11		,''	'.	
Most in	nportant	sympto	ms and	d effects,	, both ac	ute and	l delayed	l ;''			

Indication of any immediate medical attention and special treatment needed

PBT:

No data available

### SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Sodium oxide

Metal oxide fume

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

# **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow material to be released to the environment without official permits.

Methods and materials for containment and cleanup:

Dispose of contaminated material as waste according to section 13.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

### SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace.

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:

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:						1				
No data										
Exposure controls	. * *	14.		, ' '	' · .		. * *	11.		
Personal protective equ	uipmen	t								
Follow typical protective	e and h	ygienic p	ractices	for ha	ndling ch	emicals.			:''	
Keep away from foodst	uffs, be	everages	and fee	d. , ;		1			1	
Remove all soiled and	contam	inated clo	othing in	nmedia	itely.					
Wash hands before bre	aks an	d at the e	end of w	ork.			,			
Avoid contact with the	eyes.					111	1			
Avoid contact with the	eyes ar	nd skin.								
Maintain an ergonomic	ally app	oropriate v	working	enviro	nment.	·:		'	`:	. :
Breathing equipment:		1			4.			4,		
Use suitable respirator	when h	nigh conc	entratior	ns are	present.					
Recommended filter de	vice fo	r short tei	m use:			111			: ' '	: .
Use a respirator with ty controls.	pe P10	0 (USA)	or P3 (E	N 143)	) cartridg	es as a b	packup	to engin	eering	
Risk assessment shoul	d be pe	erformed	to deter	mine if	air-purify	ing resp	irators	are appr	opriate. (	Only
use equipment tested a	ınd app	roved un	der app	ropriate	e governi	ment sta	ndards			
Protection of hands:			: ' '							: .
Impervious gloves										
Inspect gloves prior to	use.		<u>'</u> ;			`; 			<u>'</u> :	. :
Suitability of gloves sho	ould be	determin	ed both	by ma	terial and	d quality,	the lat	ter of whi	ich may v	/ar <sub>i</sub> y
manufacturer.			: ' '			;**			:"	
Material of gloves										
Nitrile rubber, NBR			<u>`</u> ;			1			`: -	
Penetration time of glov	/e mate	erial (in m	inuţes)		1			1		
No data available										
Eye protection:			: ' '			: ' '				: .
Safety glasses			1,	,						

### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

Appearance:

Form: Powder

Color: WhiteOdor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 100 °C (212 °F) (-2H?O)

Boiling point/Boiling range: No data available

Sublimation temperature / start: No data available

Flammability (solid, gas)

No data available.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

**Explosion limits:** 

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 3.25 g/cm

3

(27.121 lbs/gal)

Relative density

No data available.

Vapor density

N/A			1			':	
Evaporation rate							
N/A		10		. ' '	11.		. ' '
Solubility in Water (H							
2	: .		:''			111	
O): Soluble	. :	. '	<b>'</b> :			<b>'</b> :	
Partition coefficient (r	n-octanol/	/water): N	No data a	availab	le.		
Viscosity:	, , ,						
Dynamic: N/A			:				
Kinematic: N/A							
Other information			`:			1:	
No data available		٠,		, * *			
SECTION 10.							
	STAE	BILITY	AND	RE	ACTI\	/ITY	
SECTION 10.	STAE	BILITY	AND	RE	ACTIV	/ITY	
SECTION 10.  Reactivity	STAE	BILITY	AND	RE	ACTIV	/ITY	
SECTION 10.  Reactivity  No data available	STAE	BILITY	AND	RE	ACTIV	/ITY	
SECTION 10.  Reactivity  No data available  Chemical stability	STAE	BILITY	AND	RE	ACTIN	/ITY	
Reactivity  No data available  Chemical stability  Stable under recomm	STAE	torage co	onditions	REA	ACTIN	/ITY	
SECTION 10.  Reactivity  No data available  Chemical stability  Stable under recomm  Thermal decomposition	state and state on / conduction occur in	torage co litions to f used ar	onditions be avoid	REA	ACTIN	/ITY	ons.
Reactivity  No data available  Chemical stability  Stable under recomm  Thermal decomposition  Decomposition will not  Possibility of hazardo  Reacts with strong ox	state on / conduct occur if us reactions and a cidizing a	torage co litions to f used ar ons gents	onditions be avoid and stored	led:	<b>ACTIN</b>	<b>/ITY</b>	ons.
Reactivity  No data available  Chemical stability  Stable under recomm  Thermal decomposition  Decomposition will not possibility of hazardo	state on / conduct occur if us reactions and a cidizing a	torage co litions to f used ar ons gents	onditions be avoid and stored	led:	<b>ACTIN</b>	<b>/ITY</b>	ons.
Reactivity  No data available  Chemical stability  Stable under recomm  Thermal decomposition  Decomposition will not  Possibility of hazardo  Reacts with strong ox	state on / conduct occur in us reaction in the conduction in the c	torage co litions to f used ar ons gents	onditions be avoid ad stored	led:	ding to s	/ITY	ons.
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Reactivity  No data available Chemical stability Stable under recomm Thermal decomposition Decomposition will no Possibility of hazardo Reacts with strong ox Conditions to avoid No data available Incompatible material	STAE  nended standard con / condition  of occur if  us reaction  didizing a	torage co litions to f used ar ons gents	AND anditions be avoided at stored	led:	ding to s	/ITY	ons.

Metal oxide fume

# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicolog	gical effe	ects		. * *	14.		. * *	14.		. '
Acute toxicity:										
Harmful if swallowed.			111			111			:	
The Registry of Toxic E	ffects of	f Chemica	al Subst	ançes	(RTECS)	contain	s acute	toxicity da	ata for t	his
substance.										
LD/LC50 values that are	e releva	nt for clas	ssification	on:			, ' '	1		. '
No data			:''			:''			:**	
May cause irritation	. :	. '	';			`:			`;	
Eye irritation or corrosic	on:	٠,								
Causes serious eye irrit		,		,	,		1	,		
Sensitization:			: ' '	,		: ' '			: ' '	
No sensitizina effects ki	nown									
Germ cell mutagenicity:	: :	. '	`: -			`: -		'	`:	
The Registry of Toxic E	ffects of	f Chemica	al Subst	ances	(RTECS)	contain	s mutat	tion data f	or this	
substance.										
Carcinogenicity:			111	1		: ' '	1		: • •	
No classification data or		• .	-,						A, IARC	<b>`</b> ,
NTP, OSHA or ACGIH.					.'					
Reproductive toxicity:	. * *	1.	: .	. ' '	1.	: .	. ' '	1.	: .	. '
The Registry of Toxic E	ffects of	f Chemica	al Subst	ances	(RTECS)	contain	s repro	ductive da	ita for th	าis
substance.			:	1		:			:	
Specific target organ sy	stem to	xicity - re	peated	exposu	re:	1			4	
No effects known.										
Specific target organ sy	stem to	xicity - sir	ngle exp	osure:				14		. '
No effects known.			;**				: .			

No effects known.

Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data this substance. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known. **SECTION 12. ECOLOGICAL INFORMATION** Toxicity Aquatic toxicity: No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Additional ecological information: Do not allow material to be released to the environment without official permits. Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage Avoid transfer into the environment. Results of PBT and vPvB assessmentPBT: N/A vPvB: N/A

Other adverse effects

No data available

# **SECTION 13. DISPOSAL CONSIDERATIONS**

Consult official regulations to ensure proper disposal.

Waste treatment methods

Uncleaned packagings:

Recommendation

Recommendation:

Disposal must be	made a	accordi	ng to offic	ial regu	ulations	-		.''	٠.	
Recommended of			t:							
Water, if necessa	ary with				1 1					'
	· .			•		. '	· .			•
SECTION	14. TF	RAN	SPOR	TINF	FORM	ATIO	Ň		<b>9</b> ,	
UN-Number	: ' '									; ' '
DOT, ADN, IMDO	G, IATA								e.	
UN proper shippi	ng name	ę	4			٠.,			4	
DOT, ADN, IMDO	G, IATA									
N/A	: ' '			; ' '			: ' '			: ' '
Transport hazard				1			1			`:
			<b>1</b>			14			14	: .
N/A										
Packing group	: ' '									; ' '
DOT, IMDG, IAT	<b>A</b> *;			' ;			';			·;
N/A										
Environmental ha	azards:	. ' '	',		. ' '			. ' '	',	
N/A Special precaution	ons for u	ser			:.			:.		:
N/A			<i>.</i> *	·;			·;		<i>.</i> *	`:

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A

Transport/Additional information:

DOT

Marine Pollutant (DOT):

No

### **SECTION 15. REGULATORY INFORMATION**

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

GHS GHS label elements, including precautionary statements

Hazard pictograms

GHS07Signal word

Warning

Hazard statements

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

national/international regulations.

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

Prop 65 - Chemicals known to cause cancer

Substance is not listed.

Prop 65 - Developmental toxicity

Substance is not listed.

Prop 65 - Developmental toxicity, female

Substance is not listed.

Prop 65 - Developmental toxicity, male

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006.

Substance is not listed.

The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No

1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.

Substance is not listed.

Annex XIV of the REACH Regulations (requiring Authorisation for use)

Substance is not listed.

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

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