

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. PRODUCT AND COMPANY IDENTIFICATION 1.1Product identifiers Product name Zirconium(IV) oxide-yttria stabilized		,
Product name : Zirconium(IV) oxide-yttria stabilized		
Brand : SAM		
CAS-No. : 114168-16-0		
2 Relevant identified uses of the substance or mixture and uses advised against		
Identified uses : Laboratory chemicals, Synthesis of substances		
3 Details of the supplier of the safety data sheet	11	
Company 23661 Birtcher Dr. Lake Forest, CA 92630		
Telephone       : +1 (949) 407-8904         Fax       : +1 (949) 812-6690	141	
4 Emergency telephone number		
Emergency Phone # : +1 (949) 407-8904		
HAZARDS IDENTIFICATION		
1 Classification of the substance or mixture		
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335		
For the full text of the H-Statements mentioned in this Section, see Section 16.		
2 GHS Label elements, including precautionary statements		
Signal word Warning		
Hazard statement(s)Causes skin irritation.H315Causes serious eye irritation.H319Causes serious eye irritation.H335May cause respiratory irritation.	141	
Precautionary statement(s) P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.	1	
P264Wash skin thoroughly after handling.P271Use only outdoors or in a well-ventilated area.P280Wear protective gloves/ eye protection/ face protection.		
P302 + P352IF ON SKIN: Wash with plenty of soap and water.P304 + P340 + P312IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.	11	,

											Page 2	of 7
5.2	<b>Special hazards ar</b> No data available	ising fro	om the subs	tance o	or mixtu	ire						
	Suitable extinguisl Use water spray, alo	-	dia									
5.1 Ex	xtinguishing media			:.;			1.1			÷.;		
5. FIR	REFIGHTING MEASUF	RES										
<b>4.3</b>	Indication of any ir needed No data ava	ailable	te medical a		n and s	pecial trea	itment		1 1 1 1			·:.
4.2	Most important sym The most important						the labelli	ng (see s	section 2.2	?) and/or in	section	11
	<b>If swallowed</b> Never give anything	by mou	ith to an unco	onscious	s perso	n. Rinse m	outh with w	vater. Co	nsult a ph	ysician.		
	In case of eye con Rinse thoroughly wi		/ of water for	at least	15 min	utes and c	onsult a ph	nysician.				÷.
	In case of skin con Wash off with soap	tact						_	·			
	If inhaled If breathed in, move	111		• : :	1.1		· • : ]			· · · .		
4.1	Description of first a General advice Consult a physician			ta sheet	t to the	doctor in a	ttendance.	Move ou	t of dance	rous area		
	RST AID MEASURES											
·		111										·:.
	For the full text of th	e H-Sta	tements men	tioned in	n thie S	ection sec	Section 1	6	>= 5	- < 10 %		
	Yttrium oxide											
	di di						2; Eye Irri 3; H315,		<= 10	U %		;
	Zirconium (IV) oxid	de, yttria	a stabilized									
	Component					Classifica	ation		Conc	entration		
	Formula Molecular weight CAS-No. Hazardous compo	nents	: O5Y2Zr : 349.03 : 114168-	g/mol	11	Ч,	• • •				1	·:.
3.1SU	<b>ibstances</b> Synonyms	1.t	: YSZ	•::	1.t	.41	e:					;
	MPOSITION/INFORI	VIATION		DIENTS			111			· · · ·		
	azards not otherwise					by GHS -	none					
· . :	P405 P501		Store lo Dispose			ontainer to	an approv	ed waste	disposal	plant.		÷.,
	P362 P403 + P233		Take off Store in	f contam a well-v	ninated ventilate	clothing ar ed place. K	nd wash be	fore reu	se.			
	P332 + P313 P337 + P313		lf skin ir	ritation of	occurs:	ent and eas Get medic : Get medic	al advice/ a	attention				
	P305 + P351 + P33	8				tiously with				emove		:.:

									111		
5.3	Advice for firefighter Wear self-contained		aratus for firef	ighting if r	ecessa	:; ry.		<u>;</u> .:			:.:
5.4	Further information No data available						:•:				;
6. AC	CIDENTAL RELEASE	E MEASURES									
6.1	Personal precautions Use personal protect adequate ventilation.	ive equipment	. Avoid dust fo	ormation.	Avoid br	eathing va				)	Ξ.
6.2	section 8. Environmental preca Do not let product en				<u>.</u>	÷.;				· · ·	
6.3	<b>Methods and materia</b> Pick up and arrange for disposal.				up and	shovel. Ke	ep in su	uitable, clo	sed contai	ners	
6.4	Reference to other se For disposal see sec		:**	1	1			1	111	191	÷:,
7. HA	NDLING AND STORA	GE									
7.1	Precautions for safe Avoid contact with sk result in the formation consideration before Provide appropriate For precautions see	in and eyes. An of combustib additional pro- exhaust ventila	le dusts. The cessing occur	potential f s.	or comb	oustible dus					
7.2	Conditions for safe Keep container tight						· . :	÷.	:	· ; ;	÷.,
	Keep in a dry place.										
7.3	Specific end use(s) Apart from the uses i	mentioned in s	ection 1.2 no	other spe	cific use	s are stipul	lated	:.: :			. · ·
1.1.1	POSURE CONTROLS										;
PRO	TECTION 8.1 Control	-									
	Components with w			1		Deele					
1.1	Component	CAS-No.	Value	Control		Basis	1.1	1	1.1	1.1	

Component	CAS-No.	Value	Control parameters	Basis
Yttrium oxide	1314-36-9	TWA	1.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Pulmonary f	brosis	
		TWA	1.000000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Pulmonary f	ibrosis	
		TWA	1 mg/m3	USA. NIOSH Recommended Exposure Limits
		PEL	1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

Hazardous components without workplace control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Glove's must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Do not let product enter drains.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: Solid								
b)	Odour	No data available				11				
c)	Odour Threshold	No data available								
d)	рН	No data available								
e)	Melting point/freezing point	Melting point/range	e: > 2.6 °	°C (> 36.7 °	F) - lit.					
f)	Initial boiling point and boiling range	No data available			· : .					
g)	Flash point	Not applicable								
h) <sup>;</sup>	Evaporation rate	No data available		11.	:**	11	11	:	1	÷.
i)	Flammability (solid, gas)	No data available								
j) ¦	Upper/lower flammability or explosive limits	No data available								
k)	Vapour pressure	No data available		41		11	- 4 <u>1</u>		121	.:
I)	Vapour density	No data available								
m)	Relative density	No data available								
n) :	Water solubility	No data available	1	11. 1	:**				1	÷:,
o)	Partition coefficient: n- octanol/water	No data available								
p)	Auto-ignition temperature	No data available							· •	
<b>q)</b>	Decomposition temperature	No data available								
									Page 4 o	of 7

	r) Viscos	ity	No data	available								
	s) Explos	ive properties	No data	available								
	t) Oxidiz	ing properties	No data	available			· · · .			11.		
9.2	Other safe No data av	ety information ailable										
10. S	TABILITY A	ND REACTIVITY			·	· · .		·	· · .		·	
10.1	<b>Reactivity</b> No data av	ailable										
10.2		er recommended ne following stabil		nditions.	1 I 1	÷.	···.		:.	··	1 - 1 1	1
10.3	<b>Possibility</b> No data av	of hazardous rea ailable	ctions									
10.4	<b>Conditions</b> No data av				1 		111	·		1	1 	÷.,
10.5		le materials dizing agentsStro	ng oxidizing	g agentsS	trong ox	idizing age	ents			11		
10.6	Hazardous Other deco	decomposition produced decomposition produced on produced on produced on produced on the produced of fire: see section section of fire: see section of fire:	ducts form ts - No dat			tions, - Zirc	onium oxic	les, Yttriu	um oxides	··.,		÷.
11. T	OXICOLOGI	CAL INFORMAT	ION	111	1	1.	1.1	·	1	111	1	÷.,
11.1	Information	n on toxicologica	effects									
	Acute toxi No data av	ailable		19. 19			··.,			···.		
		No data available	<b>;</b>									
	No data av	o data available	÷.	· · ·		1.			· .	· · · ·		
		sion/irritation										
	1.1	/e damage/eye iı	ritation	1			i i			i i		
	<b>Respirato</b> No data av	r <b>y or skin sensit</b> ailable	isation				11.			· · · .		
	<b>Germ cell</b> No data av	<b>mutagenicity</b> ailable		· · .		:					• •	÷.,
	Carcinoge	enicity										
·	IARC:	No component o as probable, po						qual to 0.	.1% is ider	ntified	1	÷.,
	NTP:	No component of a known or antio				els greater	than or ea	qual to 0.	.1% is ider	ntified as		
	OSHA:	No component of a carcinogen or					than or ed	qual to 0.	.1% is ider	ntified as		
	<b>Reproduc</b> No data av	tive toxicity ailable		· · · .		1	11		1.	· · · .		1

<ul> <li>2.1 Toxicity No data available</li> <li>2.2 Persistence and degradability No data available</li> <li>2.3 Bioaccumulative potential No data available</li> <li>2.4 Mobility in soil No data available</li> <li>2.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted</li> <li>2.6 Other adverse effects No data available</li> <li>3. DISPOSAL CONSIDERATIONS</li> </ul>		Other adverse effects No data available SPOSAL CONSIDERATIONS aste treatment methods Product Offer surplus and non-recyclal disposal service to dispose of Contaminated packaging Dispose of as unused product ANSPORT INFORMATION DOT (US) Not dangerous goods MDG Not dangerous goods ATA Not dangerous goods	this mate	erial.		disposal c	•••		····	**. **.	al waste	
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thoroughly investigated.	1	thoroughly investigated. To the best of our knowledge,	· .									
	t	thoroughly investigated.										
Additional Information RTECS: Not available								ı				
Aspiration hazard No data available			·		1	1. 1.		1	1. 1.	: • •	1	
Specific target organ toxicity - repeated exposure No data available			y - repea	ted expo	osure	·		I				
Specific target organ toxicity - single exposure No data available			y - single	e exposu	ire							

## SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Acute Health Hazard

# Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Zirconium (IV) oxide, yttria stabilized Yttrium oxide	 	CAS-No. 114168-16-0 1314-36-9	Revision Date 1993-02-16	
New Jersey Right To Know Components				
Zirconium (IV) oxide, yttria stabilized	 ÷.,	CAS-No. 114168-16-0	Revision Date	
Yttrium oxide		1314-36-9	1993-02-16	

## California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

Full text of H-State	ements	s referred to	o under s	ections	2 and 3.						Ξ.
Eye Irrit. H315 H319 H335 Skin Irrit. STOT SE	Cause Cause May o Skin i	rritation es skin irrita es serious e cause respir rritation fic target org	eye irritatio atory irrita	ation.	exposure		·	14. 1		·	÷.,
HMIS Rating Health hazard:		2	· · .			· · · .			· · · .		
Chronic Health Haza Flammability: Physical Hazard	ırd:	0	11. 1		1	· · .		÷.,	··		1
<b>NFPA Rating</b> Health hazard: Fire Hazard: Reactivity Hazard:	<b>1</b>	2 0 0	: • •	5	Ч.,	:	1	14. 14.	111	1	÷.,

#### Further information

This material safety data sheet is offered solely for your information, consideration, and investigation. Stanford Advanced Materials provides no warranties, either express or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein.

Page 7 of 7