

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

									0,7,0 1.	2017
1. PF	RODUCT AND COMPANY IDE	NTIFICATION	1			1			11	
1.1Pi	roduct identifiers									
· .	Product name Brand	Zirconium SAM	1.	1					14	
	CAS-No.	: 7440-67-7								
1.2	Relevant identified uses of t	he substance or mix	ture and	uses adv	sed agaiı	nst				
	Identified uses	: Laboratory chemi	cals, Syn	thesis of s	ubstances					
1.3	Details of the supplier of the	safety data sheet			: ' '	14. 1			14	
· · .	Company	Stanford Advand Materials 23661 Birtcher I	Dr.			14. 1			· .	
		Lake Forest, CA USA				· ·				. '
	Telephone Fax	: +1 (949) 407-89 : +1 (949) 812-66								
1.4	Emergency telephone numb	er	14		: • •	1.		111	14	
	Emergency Phone #	: +1-(949) 407-89	04							
2. HA	ZARDS IDENTIFICATION								· .	
2.1	Classification of the substar	nce or mixture								
	GHS Classification in acco Pyrophoric solids (Category Substances and mixtures, w	1), H250	-			(Catego	ory 1), H26	0		. '
	For the full text of the H-Stat				•					
2.2	GHS Label elements, includi				111	14		: * *	14	
	Pictogram	^								
۰.			·							
' · .	Signal word	Danger	14	:		1. 1.	:		· . · .	1
		Catches fire spo In contact with w				ses whic	h may igni	ite		:
	Signal word Hazard statement(s) H250 H260 Precautionary statement(s)	Catches fire spo In contact with w spontaneously.	ater rele	ases flam	mable gas	•.		:**		
	Signal word Hazard statement(s) H250 H260 Precautionary statement(s) P210 P222	Catches fire spo In contact with w spontaneously. Keep away from Do not allow cor	vater rele heat/spa itact with	ases flami arks/open air.	nable gas flames/ho	t surfac	es. No smo	oking.		:
	Signal word Hazard statement(s) H250 H260 Precautionary statement(s) P210	Catches fire spo In contact with w spontaneously. Keep away from	vater rele heat/spa itact with any pos ssible flas ert gas. F	ases flami arks/open air. sible conta sh fire. Protect froi	nable gas flames/ho act with w n moistur	t surface ater, bee e.	es. No smo cause of vi	oking.		: :

P370 + P378In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for
extinction.P402 + P404Store in a dry place. Store in a closed container.P422Store contents under inert gas.P501Dispose of contents/ container to an approved waste disposal plant.

2.3Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1Substances

Formula	1.1	: Zr
Molecular weight		: 91.22 g/mol
CAS-No.		: 7440-67-7

Compone	ent .				Classification	Concentration	
Zirconiur	m Pyroph	noric					
		1. 1.	 	· .	Pyr. Sol. 1; Water-react. 1; H250, H260	<= 100 %	
Pentanol							
		14		1	Flam. Liq. 3; Acute Tox. 4; STOT SE 3; H226, H332, H335	>= 1 - < 5 %	

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment

needed No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media D-powder Dry sandDry powder

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

For personal protection see section 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition - No smoking.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage.

Handle and store under inert gas. Keep in a dry place.

Storage class (TRGS 510): Pyrophoric and self-heating hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL

PROTECTION 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Zirconium Pyrophoric	7440-67-7	TWA	0.150000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Not classifiat	ole as a human car	cinogen
		STEL	10.000000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	1	Not classifiat	ole as a human car	cinogen

	1	ľ.,		TWA	5.000000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air
						Contaminants
			1.1	TWA	5.000000	USA. NIOSH Recommended
					mg/m3	Exposure Limits
				ST	10.000000	USA. NIOSH Recommended
					mg/m3	Exposure Limits
				TWA	5.000000	USA. NIOSH Recommended
					mg/m3	Exposure Limits
		1		ST	10.000000	USA. NIOSH Recommended
					mg/m3	Exposure Limits
1				TWA	5.000000	USA. ACGIH Threshold Limit Values
					mg/m3	(TLV)
				Not classifi	able as a human	
				STEL	10.000000	USA. ACGIH Threshold Limit Values
					mg/m3	(TLV)
				Not classifi	able as a human	
				TWA	5 mg/m3	USA. NIOSH Recommended
		· .			o mg/mo	Exposure Limits
				IST	10 mg/m3	USA. NIOSH Recommended
					i o mg/mo	Exposure Limits
				TWA	5 mg/m3 :	USA. Occupational Exposure Limits
		1.0			5 mg/m5	(OSHA) - Table Z-1 Limits for Air
						Contaminants
					5 mg/m3	USA. ACGIH Threshold Limit Values
					5 mg/m5	(TLV)
				Not classifi	able as a human	
				STEL	10 mg/m3	USA. ACGIH Threshold Limit Values
					TO HIG/HIS	(TLV)
				Not aleasifi		
					able as a human	
				PEL	5 mg/m3	California permissible exposure
						limits for chemical contaminants
		1.				(Title 8, Article 107)
				STEL	10 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

Face shield and safety glasses 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. Gloves 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. Protective gloves against thermal risks

Body Protection

Flame retardant antistatic protective 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

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the

sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

9. PH	YSIC	CAL AND CHEMICAL PRO	OPERTIES								
9.1	Info	ormation on basic physic	al and chemical p	ropertie)S	1.1	۰.			· .	
	a)	Appearance	Form: powder								
	b) ,	Odour	odourless								
· ·	c)	Odour Threshold	No data available	1.				1			
	d)	рН	No data available								
	e)	Melting point/freezing point	Melting point/range	e: 1,852	°C (3,366	δ°F) - lit.					
	f)	Initial boiling point and boiling range	4,377 °C (7,911 °F	[:]) - lit.							
· ·	g)	Flash point	Not applicable	` .							
	h)	Evaporation rate	No data available								
1.	i)	Flammability (solid, gas)	No data available	11			1.			1.	
	j) , '	Upper/lower flammability or explosive limits	No data available						• •		
	k)	Vapour pressure	No data available								
	I)	Vapour density	No data available								
	m)	Relative density	6.5 g/mL at 25 °C	(77 °F)			· · .				
	n)	Water solubility	insoluble								
	o)	Partition coefficient: n- octanol/water	No data available	14. 1			14. 1			1	
	p)	Auto-ignition temperature	The substance or r	nixture i	s pyropho	ric with the	catego	ry 1.			
	q)	Decomposition temperature	No data available								
÷.,	r), ,	Viscosity	No data available			: * *	÷.,		111	1.	
	s)	Explosive properties	No data available								
	t)	Oxidizing properties	No data available		:			:			
9.2		er safety information data available			1					ı	
10 5		ILITY AND REACTIVITY									
10.1	Rea No	activity data available									
10.2	Sta	emical stability ble under recommended s	torage conditions.	14		111	14	1.1	111	14	'
	Per	ntains the following stabilis ntanol (1 %) ıter (10 %)	er(s):	14. 14		1	14. 14.			14	
10.3		ssibility of hazardous reac acts violently with water.	tions								

10.4	Exposure	to moisture			14			14			Conditi	ons to a
10.5	Incompati	ble materials ong acids, Strong	g oxidizing a	agents, Hy	ydrogen	fluoride, P	hosphorus	s, Oxyge	n			11
10.6	Hazardou	s decomposition	products	-								
'.	Other dec	s decomposition omposition produ nt of fire: see sec	icts - No da			onditions	Carbon o	kides, ∠ii	rconium ox	(Ides	14	
11. TO	OXIÇOLOG	ICAL INFORMA	TION									
11.1	Informatio	on on toxicologic	al effects		1	1		1.	1	1 1	1.	1
		t icity I - Rat - > 5,000 r est Guideline 423										
	Inhalation	: No data availab	le									
	Dermal: N	lo data available		111				· .			1.	*
-	No data a	vailable			*							
	No data a		:		14. 14.			14. 14.			14	
	Serious e No data a	ye damage/eye vailable	irritation									
	Respirato No data a	ory or skin sens i vailable	itisation									
	Germ cel No data a	l mutagenicity vailable		: • •	14. 14.			1. 1.			1. 1.	'
	Carcinog	enicity										
		uct is or contains PA classification.		nt that is r	not class	ifiable as t	o its carcir	nogenicii	ty based o	n its IARC	, ACGIH,	
		· · · · ·										
	IARC:	No component as probable, p						qual to 0	.1% is ider	ntified		
	NTP:	No component a known or an				els greater	than or e	qual to 0	.1% is ider	ntified as		*
	OSHA:	No component a carcinogen c					than or e	qual to 0	.1% is ider	ntified as	1. 1.	:
	Reproduc No data a	c tive toxicity vailable										
	No data a	vailable				-			-			
	Specific t No data a	a rget organ tox i vailable		e exposu								
	Specific t No data a	a rget organ tox i vailable			osure							
	Aspiratio No data a	n hazard vailable			14	:		14	:		14	-
		al Information 2H7070000					• •					

۰.	To the best of our kr thoroughly investiga		mical, phy	ysical, and	toxicologi	cal prope	erties hav	ve not been		11	
	Stomach - Irregulari Irregularities - Base	ties - Based on Ηι d on Human Evide	ıman Evic ence (Pen	lence Stor tanol)	nach -	• •		$\mathcal{A}^{(1)}$			
2. E	COLOGICAL INFORI	MATION									
12.1	Toxicity No data available	$\alpha_{ij} = -i \alpha_{ij}$;**	14. 14.		;**	14. 14.		; • •	14. 14.	
2.2	Persistence and deg	gradability		·			1.			1.	
2.3	Bioaccumulative po No data available	tential									
2.4	Mobility in soil No data available								1		
2.5	Results of PBT and PBT/vPvB assessm			al safety a	ssessmen	t not req	uired/not	conducted		1.	
2.6	Other adverse effect	ts					,				
	No data available			1.			1. 1.			1. 1.	
3. D	ISPOSAL CONSIDER	ATIONS									
		1	1				1				
· .	Product Burn in a chemical in material is highly fla a licensed professio combustible solvent	mmable. Offer sur nal waste disposa	plus and I service t	non-recycl o dispose	able soluti of this ma	ons to a terial. Di	licensed ssolve or	disposal cor mix the mat	npany. (erial wit	Contact	
· .	Burn in a chemical in material is highly fla	mmable. Offer sur nal waste disposa and burn in a che kaging	plus and I service t	non-recycl o dispose	able soluti of this ma	ons to a terial. Di	licensed ssolve or	disposal cor mix the mat	npany. (erial wit	Contact	
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•	Burn in a chemical in material is highly fla a licensed professio combustible solvent Contaminated pach Dispose of as unuse RANSPORT INFORM DOT (US) UN number: 1358 Proper shipping nam Reportable Quantity Poison Inhalation Ha IMDG UN number: 1358 Proper shipping nam IATA UN number: 1358 Proper shipping nam IATA UN number: 1358 Proper shipping nam EGULATORY INFOR SARA 302 Compor No chemicals in this SARA 313 Compor	mmable. Offer sur nal waste disposa and burn in a che kaging ed product. IATION Class: 4.1 ne: Zirconium powo (RQ): 1 lbs izard: No Class: 4.1 ne: ZIRCONIUM Po Class: 4.1 ne: Zirconium powo Class: 4.1 net class: 4.1 ne: Zirconium powo Class: 4.1 net contain any che ng levels establish	plus and I service t mical inci der, wette OWDER, der, wette ect to the emical col	non-recycl o dispose nerator eq Packing d Packing WETTED Packing d reporting r	able soluti of this ma uipped wit group: II group: II group: II requiremer with know	ons to a terial. Dis h an afte	licensed ssolve or rburner a EMS-N	disposal cor mix the mate and scrubber	npany. (erial wit	Contact n a	

Massachusetts Right To Know Components	11.			11
Zirconium Pyrophoric		CAS-No. 7440-67-7	Revision Date 1991-07-01	
Pennsylvania Right To Know Components				
Zirconium Pyrophoric Water		CAS-No. 7440-67-7 7732-18-5	Revision Date 1991-07-01	
New Jersey Right To Know Components	11.			11.
Zirconium Pyrophoric Water Pentanol	14	 CAS-No. 7440-67-7 7732-18-5 30899-19-5	Revision Date 1991-07-01	14. 14.

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	ement	s referred to	o under s	sections	2 and 3.					· .			
Acute Tox. Flam. Liq.		e toxicity mable liquid	s										
H226	Flam	mable liquid	and vapo										
H250		Catches fire spontaneously if exposed to air.											
H260 H332	H260 In contact with water releases flammable gase H332 Harmful if inhaled.						ay ignite	spontane	ousiy.				
H335 Pyr. Sol.	May Pyro	cause respir phoric solids	atory irrita	1.		; • •	÷.,			1. 1.	*		
STOT SE Water-react.		ific target or tances and i					emit flam	mable gas	ses				
HMIS Rating Health hazard:		2					· · .						
Chronic Health Haz Flammability: Physical Hazard	zard:	* 3 3											
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	÷.,	2 3 3	111	14. 14.	*		5. 191	*		Ч.,	'		

Further information

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