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SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

.1Product identifiers Product name : Ytterbium(III) nitrate pentahydrate Brand : SAM CAS-No. : 35725-34-9 2 Relevant identified uses of the substance or mixture and uses advised against Identified uses : Laboratory chemicals, Manufacture of substances 3 Details of the supplier of the safety data sheet Company : Materials 23661 Birtcher Dr. Lake Forest, CA 92630 USA Telephone : +1 (949) 407-8904 Fax : +1 (949) 407-8904 Fax : +1 (949) 407-8904 CHAZARDS IDENTIFICATION 1 Classification of the substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Oxidizing solids (Category 2), H272 Skin irritation (Category 2), H315 Eye irritation (Category 2), H315 <t< th=""><th>1 PF</th><th>RODUCT AND COMPA</th><th></th><th>NTIFICATION</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></t<>	1 PF	RODUCT AND COMPA		NTIFICATION							
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P280		Wear protective gloves/ protective clothing/ eye protection/ face protection.	1.1 ¹	
P302 + P352		IF ON SKIN: Wash with plenty of soap and water.		
P304 + P340		IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	÷.,	
P305 + P351 + P33	38	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P312		Call a POISON CENTER or doctor/ physician if you feel unwell.		
P321		Specific treatment (see supplemental first aid instructions on this label).		
P332 + P313		If skin irritation occurs: Get medical advice/ attention.		
P337 + P313		If eye irritation persists: Get medical advice/ attention.		
P362		Take off contaminated clothing and wash before reuse.		
P370 + P378		In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.		
P403 + P233	1	Store in a well-ventilated place. Keep container tightly closed.		
P405		Store locked up.		
P501		Dispose 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 Molecular Weight CAS-No.	: N3O9Yb 5H2O : 449.13 g/mol : 35725-34-9				 :
EC-No.	: 237-384-6	1		1	

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable regulations. For the full text of the H-Statements mentioned in this Section, see Section 16.

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- 5.2 Special hazards arising from the substance or mixture nitrogen oxides (NOx), ytterbium oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information

Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2 Environmental precautions

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 wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of ignition -No smoking.Keep away from heat and sources of ignition.Normal measures for preventive fire protection. 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.

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

Contains no substances with occupational exposure limit values.

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. 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.

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

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

Do not let product enter drains.

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9. PH	IYSICAL AND CHEMICAL PF	ROPERTIES								
9.1	Information on basic phys	ical and chemical p	oropertie	S						
	a) Appearance	Form: Crystals wit Colour: colourless								
	b) Odour	no data available	1							
	c) Odour Threshold	no data available								
	d) pH	no data available								
	e) Melting point/freezing point	no data available	'	1 1	111		1	111		'
	 f) Initial boiling point and boiling range 	no data available	'							
	g) Flash point	no data available								
	h) Evapouration rate	no data available	1							
	i) Flammability (solid, gas) no data available								
	j) Upper/lower	no data available								
'	flammability or explosive limits			1	:**		1			÷.,
	k) Vapour pressure	no data available								
	I) Vapour density	no data available								
	m) Relative density	no data available								
:	n) Water solubility	no data available								
	 Partition coefficient: n- octanol/water 	no data available								
	p) Auto-ignition temperature	no data available		·	:**		·			·
	q) Decomposition temperature	no data available								
	r) Viscosity	no data available								
	s) Explosive properties	no data available								
	t) Oxidizing properties	The substance or	mixture i	s classifie	d as oxidiz	zing with	the catego	ory 2.	1.	
9.2	Other safety information no data available									
10. S	TABILITY AND REACTIVITY									
10.1	Reactivity no data available	at a sub-								
10.2	Chemical stability Stable under recommended						. '			. '
10.3	Possibility of hazardous rea no data available	-	1	н н н	. **	1			1	
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10.4	Conditions no data av			'	*		¹					
10.5	Incompa t Organic m	tible materials aterials									1	
10.6	Other deco	a decomposition promposition product nt of fire: see sect	s - no data	available	*	·			5			5
11. T	OXICOLOG		ΓΙΟΝ									
11.1	Informatio	n on toxicologica	al effects			100					'	
	Acute tox no data av											
· .	Inhalation:	no data available	Э '					· .				
	Dermal: no	o data available										
	no data av		·			·			·		'	
	Skin corr no data av	osion/irritation /ailable										
'	Serious e no data av	ye damage/eye i ⁄ailable	rritation							1.1 ¹	¹	
÷.,	Respirato no data av	ry or skin sensit /ailable	tisation								1	
	Germ cell no data av	mutagenicity vailable										
	Carcinoge	enicity	1	111		1	: * *	'	1	111	'	·
	IARC:	No component as probable, po						qual to 0	.1% is ide	ntified		
'	ACGIH:	No component a carcinogen o					than or e	qual to 0	.1% is ide	ntified as	' 	
1	NTP:	No component a known or anti				els greater	than or e	qual to 0	.1% is ide	ntified as	1	
	OSHA:	No component a carcinogen or					than or e	qual to 0	.1% is ide	ntified as		
'	Reproduc no data av	tive toxicity vailable	1	111		1	: **	'	1 	:**	1.1	1
	no data av	ailable									'	
		arget organ toxic - May cause resp	city - sing	le exposu								
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	Aspiratio no data av		·									
		I Information lot available										
'		st of our knowledg investigated.	ge, the che	mical, phy	/sical, an	d toxicolog	gical prope	erties hav	ve not bee	n ···	1.1	
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2. E					1			1			
2.1	Toxicity no data available	4. I T		1	н н. Н					1	
2.2	Persistence and degra	adability									
.3	Bioaccumulative pote no data available	ntial	: • •	'	5			1	: * *	¹	
2.4	Mobility in soil no data available		*	'							
2.5	Results of PBT and vF PBT/vPvB assessment		chemica	al safety a	assessment	t not requ	uired/not	conducted	I		
2.6	Other adverse effects		1								
	no data available										
. DI	SPOSAL CONSIDERAT	IONS	1			1 1 1		· · ·			<u></u>
.1 V	Vaste treatment method	ds									
	Product Burn in a chemical inc material is highly flam a licensed professiona	mable. Offer surplu	with an is and r	afterburr non-recyc	ner and scru clable soluti	ubber bu ons to a					
	Contaminated packa Dispose of as unused	ging	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, ,			. * *	1.	
. т	RANSPORT INFORMA	TION			1	: ' '		·			
	DOT (US)										
	UN number: 1477 Proper shipping name: Marine pollutant: No Poison Inhalation Haza	Nitrates, inorganic			g group: II	'	'		'	'	
	IMDG			÷.,			÷.,			÷.,	
	UN number: 1477 Proper shipping name:	Class: 5.1 NITRATES, INOR	GANIC		g group: II		EMS-N	lo: F-A, S-0	J		
	Marine pollutant: No		: * *		1			1	: • •		
				Deskins							
	UN number: 1477 Proper shipping name:	Class: 5.1 Nitrates, inorganic	. n.o.s.		g group: II						
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. R	EGULATORY INFORM										
	SARA 302 Compone SARA 302: No chemic		are su	bject to tl	ne reporting	ı requirer	ments of	SARA Title	e III, Sectio	on 302.	
	SARA 313 Compone SARA 313: This mater the threshold (De Mini	rial does not contai							that exce	ed	
	SARA 311/312 Hazar Reactivity Hazard	ds									
	Massachusetts Righ No components are su			ts Right t	to Know Act	t.		ı			
	Pennsylvania Right	To Know Compon	ents								
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	Ytterbium n	itrate p	entahyd	rate	1. C			35725-34-9	'			'	
	New Jersey	y Right	t To Kno	w Compo	onents			CASNO		Povinin	n Doto		
,	Ytterbium r	itrate p	entahyd	rate		1		CAS-No. 35725-34-9	1	Revisio	n Dale	1	
	California I This product other reprod	t does	not conta		emicals kn	own to S	State of (California to ca	use ca	ancer, birth	n defects, c	or any	•
6. O		RMATIC	ON N			'		'			'	'	, '
	Full text of			referred t	o under se	ections	2 and 3.						
	H272 H315 H319 H335		Cause Cause	s skin irrita s serious (e; oxidiser. ation. eye irritatio ratory irrita				1				
	HMIS Ratin Health haza Chronic Hea	ard:		0			1 	111		1 1	111	' 	·
	Flammabilit Physical Ha	y: ' '	2010.	0 2	¹			1.1 1			'		
	NFPA Ratin Health haza Fire Hazard Reactivity H Special haz	ard: :: lazard:	4,	0 0 2 OX					:.			4,	
		Materia	ls provid	es no war	ranties, eitl	ner expr	ess or in	tion, considerand tion, considerand tion, and ass					
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