

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. P	RODUCT AND COMPANY IDENTIFICATION	. '		;		; · ·	:	
1.1	Product identifiers							
	Product name : Indium(III) sulfide Brand : SAM	red	1.			1	1	
	CAS-No. : 12030-24-9							
1.2	Relevant identified uses of the substance or mixture and	uses advised	agains	t				
	Identified uses : Laboratory chemicals, Sy	nthesis of sub	ostances	i				
1.3	Details of the supplier of the safety data sheet		; • •	ti i		: * *	:	1
	Company Stanford Advanced : Materials 23661 Birtcher Dr.		÷.,			:.	1	
	Lake Forest, CA 92630 USA							
	Telephone: +1 (949) 407-8904Fax: +1 (949) 812-6690							
1.4	Emergency telephone number	1				: • •		
	Emergency Phone # : +1 (949) 407-8904			,				
2. H	IAZARDS IDENTIFICATION		1					
2.1	Classification of the substance or mixture							
	GHS Classification in accordance with 29 CFR 1910 (O Acute toxicity, Oral (Category 4), H302 Acute toxicity, Inhalation (Category 4), H332 Acute toxicity, Dermal (Category 4), H312	SHA HCS)						*
:	Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respirator	y system	n, H335			ť	
· .	For the full text of the H-Statements mentioned in this Sect	ion, see Sect	ion 16.	· .				
2.2	GHS Label elements, including precautionary statements							
	Pictogram							
	Signal word Warning							
1	Hazard statement(s) H302 + H312 + H332 H315 H240 Harmful if swallowed, in Causes skin irritation.		skin or i	if inhaled.	2		:	
1	H319 H335 Causes serious eye irrit May cause respiratory i			1		1	`: 	
	Precautionary statement(s)P261Avoid breathing dust/ fuP264Wash skin thoroughly aP270Do not eat, drink or smoP271Use only outdoors or in	fter handling. oke when usir	ng this p	roduct.	'		• •	*

P280	Wear eye protection/ face protection.
P280	Wear protective gloves/ protective clothing.
P301 + P312 + P330	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P302 + P352 + P312	IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
P304 + P340 + P312	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P403 + P233	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	: In2S3
Molecular weight	 : 325.83 g/mol
CAS-No.	: 12030-24-9
EC-No.	: 234-742-3

Hazardous components

Component		100	1.1		1	Classification	Concentration
Indium(III) sul	fide	red					
				:.		Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H302 + H312 + H332, H315, H319, H335	90 - 100 %

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 imm No data available	ediate medica	l attention a	nd special treati	ment neede	ed		÷.	`:	· · ·
5. 1	FIREFIGHTING MEASUR	ES	1 - 1 1		1.1					<u>-</u>
5.1 E	xtinguishing media									
	Suitable extinguishing		m, dry chemi	cal or carbon dio	xide.			: • •		
5.2	Special hazards arisin No data available	ig from the sul	bstance or n	nixture						
5.3	Advice for firefighters Wear self-contained bro		us for firefigh	nting if necessary	· · ·			i.,		
5.4	Further information No data available				11		'			
6. /	ACCIDENTAL RELEASE	MEASURES								
6.1	Personal precautions , Use personal protective ventilation. Evacuate pe	equipment. A	oid dust forn	nation. Avoid bre	athing vapo				quate	
6.2	Environmental precau Do not let product enter							:		
6.3	Methods and material Pick up and arrange dis for disposal.				hovel. Keep	o in suita	able, closed	d containe	rs	'
6.4	Reference to other see For disposal see sectio				111	÷.		;**	:	
7.1	HANDLING AND STORA	GE								
7.1	Precautions for safe h Avoid contact with skin the formation of combu before additional proce Provide appropriate ext For precautions see set	and eyes. Avoi stible dusts. Th ssing occurs. naust ventilation	e potential fo	or combustible du	st formatior					ult in
7.2	Conditions for safe st Keep container tightly				111	t.		:**	:	
	Keep in a dry place. Storage class (TRGS 5	10): 13: Non C	ombustible S	olids						
7.3	Specific end use(s) Apart from the uses me	entioned in sect	ion 1.2 no otl	her specific uses	are stipulat	ed	'			
8. 1	EXPOSURE CONTROLS	PERSONAL								
PR	OTECTION 8.1 Control	parameters								
:	Components with w				Posia	-				
	Component	CAS-No.	Value	Control parameters	Basis					

Component	CAS-No.		Control	Basis			
Indium(III) sulfide	12030-24-9	TWA	parameters 0.1 mg/m3	USA. A	CGIH T	hreshold L	imit Values
red			J	(TĽV)			
		Pulmonary e Pneumonitis Dental erosic Malaise					

	TWA	0.1 mg/m3	USA. NIOSH Recommended Exposure Limits
	PEL	0.1 mg/m3	California permissible exposure limits for chemical contaminants (Title 8, Article 107)

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

Complete suit protecting against chemicals, 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 physica	al and chemical propert	ies		1	 1	1	
	a) Appearance	Form: powder						
	b) Odour	No data available	·				н н н	'
	c) Odour Threshold	No data available						
	d) pH	No data available						
1	e) Melting point/freezing point	No data available				: ' '		
· .	 f) Initial boiling point and boiling range 	No data available		1	`:		· .	
	g) Flash point	No data available						
	h) Evaporation rate	No data available				 		
	i) Flammability (solid, gas)	No data available						
	 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	No data available						
	n) Water solubility	No data available						
1	 Partition coefficient: n- octanol/water 	No data available						

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									. 1			
		ignition erature	No data	available								
		mposition erature	No data	available								'
	r) Visco	osity	No data	available								
	s) Explo	sive properties	No data	available			: • •			: • •		
	t) Oxidi	zing properties	No data	available								
).2	Other safety No data ava	information ailable	· · ·	÷.,	1	· · ·		1			1	
10.	STABILITY	AND REACTIVITY	· .									
0.1	Reactivity No data ava	ailable										
0.2		ability er recommended st	torage conc	ditions.	:					:		
0.3	Possibility of No data ava	of hazardous react ailable	tions									
0.4	Conditions No data ava											
0.5		e materials s, Strong oxidizing	agents		н н н					· · ·		'
11.	In the event	nposition products of fire: see section	n 5									
11.		on on toxicologica					1			1.		
	Acute to No data ava	kicity										
	No data ava	ailable										
	Skin corros No data ava	sion/irritation ailable					:**			:**		
	Serious eye No data ava	e damage/eye irri ailable	tation									
	Respiratory No data ava	y or skin sensitis ailable	ation									
	Germ cell r No data ava	nutagenicity ailable				'			'			'
	Carcinog	jenicity										
:	IARC:	No component as probable, po						qual to 0	.1% is ider	ntified	:	
· .	NTP:	No component a known or anti	of this prod cipated car	uct preser cinogen by	nt at lev y NTP.	els greater	r than or e	qual to 0	.1% is ider	ntified as	· .	
	OSHA:	No component OSHA's list of r			5.	•	than or e					
	Reproducti No data ava					1.1			1.1			'
	No data ava	ailable										
											Page 5	of 8

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	Specific target organ toxici Inhalation - May cause respir		osure		1 - 1 1	÷.,	1		1		
	Specific target organ toxici No data available	-	exposure	9		1 - 1 1		11			
	Aspiration hazard No data available										
:	Additional Information RTECS: Not available						:		111		. '
:	To the best of our knowledge,	the chemical, pl	nysical, ar	nd toxic	cological pro	operties h	ave not b	een thorou	ighly inves	tigated.	
12.	ECOLOGICAL INFORMATIO	N									
.1	Toxicity No data available										
12.2	2 Persistence and degradab No data available	ility									
3	Bioaccumulative potential No data available		,	:	. '	,		. '	·		
.4	Mobility in soil No data available		1	1		1			÷.,		
.5	Results of PBT and vPvB a	ssessment									
	PBT/vPvB assessment not a		mical saf	ety ass	sessment n	ot require	ed/not co	onducted			
.6	PBT/vPvB assessment not a Other adverse effects		mical saf	ety ass	sessment n	ot require	ed/not co	onducted			
	Other adverse effects No data available	vailable as che	mical saf	ety ass	sessment n	ot require	ed/not co	onducted			
13.	Other adverse effects No data available DISPOSAL CONSIDERATION	vailable as che	mical saf	ety ass	sessment n	ot require	ed/not co	onducted	: * : :::::::::::::::::::::::::::::::::		
13.	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy	vailable as che S	s to a lice						profession	al waste	
13.	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product	vailable as che S clable solutions of this materia	s to a lice	ensed o					profession	al waste	
13. .1 V	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy disposal service to dispose Contaminated packaging	vailable as che s clable solutions of this materia luct.	s to a lice	ensed o	disposal co	mpany. C			profession	al waste	•••
13. .1 V	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy disposal service to dispose Contaminated packaging Dispose of as unused prod	vailable as che s clable solutions of this materia luct.	s to a lice	ensed o	disposal co				profession	al waste	•
13. .1 V	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy disposal service to dispose Contaminated packaging Dispose of as unused prod TRANSPORT INFORMATION DOT (US)	vailable as che s clable solutions of this materia luct.	s to a lice	ensed o	disposal co	mpany. C			profession	al waste	•
13. .1 V	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy disposal service to dispose Contaminated packaging Dispose of as unused prod TRANSPORT INFORMATION DOT (US) Not dangerous goods IMDG	vailable as che solable solutions of this materia luct.	s to a lice	ensed o	disposal co	mpany. C	Contact a		profession	al waste	· · · · · · · · · · · · · · · · · · ·
8.1 V	Other adverse effects No data available DISPOSAL CONSIDERATION Vaste treatment methods Product Offer surplus and non-recy disposal service to dispose Contaminated packaging Dispose of as unused prod TRANSPORT INFORMATION DOT (US) Not dangerous goods IMDG Not dangerous goods	vailable as che solable solutions of this materia luct.	s to a lice	ensed o	disposal co	mpany. C	Contact a	licensed p	profession	al waste	··· ··· ···

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.

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

Pennsylvania Right To Know Components	Pennsylvania	Right To	Know Com	ponents
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Indium(III) sulfide red		111	÷.		CAS-No. 12030-24-9	Revision Date 1993-02-16	
Indium(III) sulfide red	н н н	÷.,			CAS-No. 12030-24-9	Revision Date 1993-02-16	1
Indium(III) sulfide red					CAS-No. 12030-24-9	Revision Date 1993-02-16	н н Н
New Jersey Right To Know	Compone	nts					
Indium(III) sulfide red			:		CAS-No. 12030-24-9	Revision Date 1993-02-16	1
Indium(III) sulfide red		÷.,	1	· · ·	CAS-No. 12030-24-9	Revision Date	1

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-Statements referred to under sections 2 and 3.											
	Acute Tox. Eye Irrit. H302 H302 + H312 +	Acute toxicity Eye irritation Harmful if swallowed. Harmful if swallowed, in conta			act with		inhaled.	1		1	1	
	H332 H312 H315 H319	Harmful Causes	skin irritati	with skin.		'			'			'
	HMIS Rating Health hazard: Chronic Health Haz Flammability: Physical Hazard	2		: • •	÷		: • •	e la composición de la compo		: • •	÷.	
			н н н		`;	· · ·	1	1	· ·	1	1	
	NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	2 0 0	'			'						'

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.

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