

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

l. P I.1	RODUCT AND COMPA Product identifiers Product name	ny idi	1	y(V) sulfid	le	111	:	5	111	:	,
۰.		· · .	÷		÷.,		· · .	1		· · .	
	Brand		: SAM								
÷	CAS-No.	:	: 1315-04-4			1.0	:		1.1		
2	Relevant identified us	as of t		or mixture and	d usos ar	lvisod an	ainet				
•	Identified uses	63 01 1	: Laboratory			-					
		1	Laboratory			oușotant					
•	Details of the supplier	of the	safety data sh	eet							
· .	Company	· · .	: Stanford A Materials					1			
:		;	23661 Birto Lake Fores USA			1	:		1	:	
	Telephone Fax		: +1 (949) 40 : +1 (949) 81					·			
	Emergency telephone	numb	er								
	Emergency Phone #		: +1 (949) 40	7-8904							
H	AZARDS IDENTIFICAT	ION	·								
	Classification of the s	ubstar	nce or mixture								
	GHS Classification in Flammable solids (Cate Acute toxicity, Oral (Cat Acute toxicity, Inhalation Acute aquatic toxicity (C Chronic aquatic toxicity	egory 1 tegory n (Cate Catego	), H228 4), H302 egory 4), H332 ry 2), H401	CFR 1910 (OS	HA HCS)	ч 111	:	····			
	For the full text of the H	l-Stater	ments mentione	d in this Sectio	n, see Se	ection 16.					
	GHS Label elements, i	includi	ing precaution	ary statement	S		· · · ·	1		11.	
:	Pictogram	:				5	:		÷	1	
	Signal word		Danger								
:	Hazard statement(s) H228 H302 + H332 H411	;		solid. wallowed or if uatic life with l		g effects.	;	1	:	;	
	Precautionary statem	ent(s)		from boot/one	arks/open	flames/ho	ot surfac	es. No sm	oking.	· · ·	
' .	P210 P240			nd container a							

P270Do not eat, drink or smoke when using this product.P271Use only outdoors or in a well-ventilated area.P273Avoid release to the environment.P280Wear protective gloves/ eye protection/ face protection.	
P273Avoid release to the environment.P280Wear protective gloves/ eye protection/ face protection.	
P280 Wear protective gloves/ eye protection/ face protection.	
	1
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.	
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.	:
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.	
P391 Collect spillage.	11.
P501 Dispose of contents/ container to an approved waste disposal plant.	

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

#### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# 3.1 Substances

Formula	: S <sub>5</sub> Sb <sub>2</sub>
Molecular weight	: 403.85 g/mol
CAS-No.	: 1315-04-4
EC-No.	: 215-255-5
Index-No.	: 051-003-00-9

#### Hazardous components

Componer	nt				Classification	Concentration
Diantimor	ny penta	sulphid	е			
·		:	1	:	Flam. Sol. 1; Acute Tox. 4; Aquatic Acute 2; Aquatic Chronic 2; H228, H302 + H332, H411	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

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. 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

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5. F	IREFIGHTING	MEASU	IRES										
5.1	Extinguishing	media	l (		1			1.0			1.0		
	Suitable extin Use water spra				, dry chen	nical or c	arbon dioxid	de.					
5.2	<b>Special hazar</b> No data availa		ing from	the subs	stance or	mixture	·	: • •	÷	1		ť	1.1
5.3	Advice for fire Wear self-cont			apparatu	s for firefi	ghting if r	necessary.	. :		:			1
5.4	Further inform		ol unope	ned conta	ainers.								
<del>6.</del> A	CCIDENTAL R	ELEAS		URES				1.0			<u></u>		
6.1	<b>Personal pred</b> Use personal p ventilation. Re For personal p	protectiv move a	ve equipr Il source:	nent. Avo s of ignitic	id dust for	rmation.	Avoid breat	hing vapo			ure ade	quate	÷
6.2	Environmenta Prevent further must be avoide	leakag		age if saf	e to do so	. Do not	let product	enter drai	ns. Disc	harge into th	e enviro	nment	1
6.3	Methods and Sweep up and brushing and p containers for transfer to a co	shovel lace in disposa	Contain containe I. Contai	spillage, for dispo n spillage	and then osal accor , pick up v	collect w ding to lo with an e	ith an elect ocal regulat lectrically p	ions (see rotected v	section	13). Keep in	suitable	, closed	nd
6.4	Reference to For disposal se			1		:	1. A.	:	:			÷.	1
7. H	IANDLING AND	STOR	AGE	:									:
7.1	Precautions for Avoid contact the formation of before addition Provide approprise smoking.Take For precaution	with skin of comb al proc priate ex measur	n and ey ustible d essing of chaust ve res to pre	es. Avoid usts. The ccurs. entilation a event the	potential	for comb where du	ustible dust ust is formed	formatior	should	be taken inte	o consid	eration	ultin
7.2	<b>Conditions fo</b> Keep containe										I		
· · .	Acids Storage class	TRGS	510): 4.1	B: Flamm	nable solic	d hazardo	ous materia		· · .	1		· · .	1.
7.3	Specific end un Apart from the	u <b>se(s)</b> uses m	entioned	l in sectio	n 1.2 no c	other spe	cific uses a	re stipulat	ed		·	:	
<del>8.</del> E	XPOSURE CO	NTROL	S/PERS		OTECTIO	ON N							
8.1	Control para	ameter	S										
	Component	s with	workpla	ce contro	ol parame	ters	1			1		t.	· · ·
···.			· · .	÷.			4					· · .	1
÷		<b>'</b>	÷		<b>1</b>	:		1	÷		·	÷	

Component	CAS-No.	Value	Control parameters	Basis
Diantimony pentasulphide	1315-04-4	TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.500000 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Resp Skin irritatio	piratory Tract irrita	ation
	н	TWA	0.500000 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	0.500000 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	0.5 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
1		TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		Upper Resp Skin irritatio	piratory Tract irrita	ation
		TWA	0.5 mg/m3	USA. NIOSH Recommended Exposure Limits

# 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, 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. Discharge into the environment must be avoided.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available

	e) Melting point/freezing	No data available								
	point									
1	<ul> <li>f) Initial boiling point and boiling range</li> </ul>	No data available	1		1.1	1				
	g) Flash point	No data available								
	h) Evaporation rate	No data available	1	·	: **		1	111		·
	i) Flammability (solid, gas	) The substance or r	nixture i	s a flamma	able solid v	vith the c	ategory 1.			
۰.	j) Upper/lower flammability or explosive limits	No data available	···,	:		···,	÷.		· · .	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								
	<ul> <li>Partition coefficient: n- octanol/water</li> </ul>	No data available	:						1	
۰.	p) Auto-ignition temperature	No data available		1.		11			11	÷.
1	q) Decomposition temperature	No data available	e la composición de la compo		·	÷		1		
	r) Viscosity	No data available								
	s) Explosive properties	No data available								
1	t) Oxidizing properties	No data available	1	· · ·		1	· · ·			·
).2	Other safety information No data available	::		:			÷.		· · .	:
10.	STABILITY AND REACTIVITY									
0.1	<b>Reactivity</b> No data available	·	÷		1.1	:		5		
0.2	Chemical stability Stable under recommended st	orage conditions.								
10.3	Possibility of hazardous real No data available	ctions	t.	1	111	÷	1	111	1	·
10.4	Conditions to avoid Heat, flames and sparks.	4	· · .	÷.,		· · .	÷.,		· · .	1
).5	Incompatible materials Oxidizing agents	····			·	. '		·		
10.6	Hazardous decomposition pro Hazardous decomposition pro Other decomposition products In the event of fire: see section	ducts formed under - No data available			-					
; -11	TOXICOLOGICAL INFORMAT		1	1.1						
11. 11.1				:						:
	Acute toxicity Inhalation: No data available									
	Dermal: No data available	···· '··	1		1	1		1		
	LD50 Intraperitoneal - Mouse	- 458 mg/kg								

# LD50 Intraperitoneal - Rat - 1,500 mg/kg

# Skin corrosion/irritation

No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a NTP: known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. **Reproductive toxicity** No data available No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS: CC6125000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **12. ECOLOGICAL INFORMATION** Toxicity No data available 12.2 Persistence and degradability No data available **Bioaccumulative potential** No data available Mobility in soil No data available

#### Results of PBT and vPvB assessment 12.5

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

12.1

12.3

12.4

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

# **13. DISPOSAL CONSIDERATIONS**

#### 13.1 Waste treatment methods

## Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

# Contaminated packaging

Dispose of as unused product.

#### **14. TRANSPORT INFORMATION**

#### DOT (US)

UN number: 3178 Class: 4.1 Packing group: II Proper shipping name: Flammable solid, inorganic, n.o.s. (Diantimony pentasulphide) Reportable Quantity (RQ): Poison Inhalation Hazard: No

#### IMDG

UN number: 3178 Class: 4.1 Packing group: II EMS-No: F-A, S-G Proper shipping name: FLAMMABLE SOLID, INORGANIC, N.O.S. (Diantimony pentasulphide)

# ΙΑΤΑ

UN number: 3178 Class: 4.1 Packing group: II Proper shipping name: Flammable solid, inorganic, n.o.s. (Diantimony pentasulphide)

# **15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components The following components are subject to reporting levels established by SARA Title III, Section 313: CAS-No. **Revision Date** Diantimony pentasulphide 1315-04-4 1993-04-24 SARA 311/312 Hazards Fire Hazard, Acute Health Hazard Massachusetts Right To Know Components CAS-No. Revision Date Diantimony pentasulphide 1315-04-4 1993-04-24 CAS-No. Revision Date Diantimony pentasulphide 1315-04-4 1993-04-24 Pennsylvania Right To Know Components CAS-No. Revision Date 1315-04-4 1993-04-24 Diantimony pentasulphide CAS-No. **Revision Date** 1315-04-4 1993-04-24 Diantimony pentasulphide CAS-No. **Revision Date** Diantimony pentasulphide 1315-04-4 1993-04-24

New Jersey Right To Know ComponentsCAS-No.Revision DateDiantimony pentasulphide1315-04-41993-04-24

Diantimony pentasulphide			CAS-No. 1315-04-4		Revisio 1993-04		
Blantinony pontaoaipinao					1000 0		
California Prop. 65 Components	1	1.1	 1.1	1.1		1	

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	under s	ections	2 and 3.						
Acute Tox. Aquatic Acute Aquatic Chronic	Acute Chro	e toxicity e aquatic toxi nic aquatic to	city oxicity	· · .			11.			Ч.,	1
Flam. Sol. H228 H302 H302 + H332 H332	Flam Harm Harm Harm	mable solids mable solid. nful if swallov nful if swallov nful if inhaled	ved. ved or if ir	haled.					·		
HMIS Rating					1.1			1.1		1	<b>.</b>
Health hazard: Chronic Health Haz Flammability: Physical Hazard	ard:	2 2 <sup>1</sup> 1		· · .			· · .			· · .	
NFPA Rating Health hazard: Fire Hazard: Reactivity Hazard:	1	2 2 1	1 	:		<b>'</b>	:		1 1	:	
Health hazard: Fire Hazard: Reactivity Hazard:	:	2 3 3		1	1		l.	1			÷
Eurther informatio	-										

# Further information

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