

# Safety Data Sheet Silicon Sulfide

### 1. Product and Company Identification

Trade Name: Silicon Sulfide

Chemical Formula:

Recommended Use: Scientific research and development

SiS<sub>2</sub>

Manufacturer/Supplier: Stanford Advanced Materials

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

Tel: (949) 407-8904 Fax: (949) 812-6690

Emergency Contact: (949) 407-8904

(This telephone number is available 24 hours per day, 7 days per week.)

### 2. Hazards Identification

Signal Word: Danger





Hazard Statements: H261: In contact with water releases flammable gas

H300: Fatal if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation

H335: May cause respiratory irritation

Precautionary Statements: P231+P232: Handle under inert gas. Protect from moisture

P261: Avoid breathing dust/fume/vapor

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health:

Flammability:

Physical:

		111			::'		11.	111		
				3	. Compo	sition				
	al Family: nal Names:			Ceram Silicon		e, Silicon (	IV) sulfide	:-:		11;
Silicon	Sulfide (SiS <sub>2</sub> ): Percentage: CAS #: EC #:	:	·::	100 wt 13759- 237-34	-10-9	41	;**	141	-::	:
	::				- 11	rocedures	::.	- ::	;	
,	Treatment:	;··	-1;	irregul Seek n	ar breath		ratory arres	t provide	product. In artificial re	
	Treatment: ant Symptoms:			None None						
45	10	:::	• ; '	100	: : :	.;'	111	: : :		
Inhalation Ingestio		.,.		Give o	ne to two				reathing is one vomiting.	
Skin:		.:		medical help.  Wash affected area with mild soap and water. Remove any contaminated clothing.						
Eyes:	11	: - :	Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing							Remove
				5. Fir	efighting	Measures	,			
Flamma	ıbility:		1	Produc	t is flam	nable				
	ishing Media: ire Fighting Pr		e: '' <sup>'</sup>	Use fu clothin	ll-face, se	ent contact	d breathing	apparatu	g powder. s with full j	
;	11;	:.:		decom	position	oroducts.	11:	1.1	- 1;	11;
				6. Accide	ental Rele	ase Measur	res			
If Mater	rial Is Release	d/Spille	d:	special ventila	protection. Vac	on informat uum up spi	ion. Isolate ll using a h	spill area igh effici	nipment spen and providency particular	le ''' ılate
Environ	mental Precau	itions:	••;	Take c Do not govern	are not to allow m mental p	raise dust. aterial to be ermits.	Keep unprereleased to	otected p the envi	ersons away ronment wi	thout proper
• • • • • • • • • • • • • • • • • • • •	11:	:::	• • • • • • • • • • • • • • • • • • • •	Do not	allow to	oduct to rea penetrate the prevent en	he ground/s	oil.	r any water on.	course.
				7. Ha	ndling ar	d Storage	:		.:	!''
Handlin	g Conditions:						dling. Hand	lle under	inert gas. P	rotect from
Storage	Conditions:	::'	••;	Store i					ainer. Store	e apart from
	Iygienic Maint	tenance		Do not	use toba	cco or food	in work ar	ea. Wash	thoroughly	
	ian.	: - :	• • • •	compre	essed air.				ing or skin	
Ventilat	non:				e sufficie old limit.	nt ventilatio	on to maint	ain conce	ntration at	or below

posure Controls and Personal Protection	on		
1			
N/A		1,	
IN/A			
None			
Dust Respirator			
			1
	ose-toed shoe	es and long	
sleeves/pants.	, '	'	
P. C.			
Physical and Chemical Characteristics		:	
White			
	ing target C	uetom narte	
	ing target, C	ustom parts	
·			: ' '
92.218 g/mol			
<u> </u>		''	
10. Reactivity			
Contacts with acids liberates toxic	gas.		
Stable under recommended storag	e conditions.		: ' '
Acids - Forms toxic gas.			
		-	
		,	
Metal oxide fume		1.	
11. Toxicological Information			
		:	
Causes serious eve irritation			
	ha acuta inte	alation iit	ato
roonged initiation may cause p	minonary 110.	LODIO KIIOWII	25 5111CO
N/A			
N/A			
			:
N/A		1	
No classification data on carcinog	enic properti	es of this ma	terial is
	1 F 7	ACCIH	
available from the EPA, IARC, N	ΓP, OSHA οι	ACOIII.	
available from the EPA, IARC, N' 12. Ecological Information	ΓP, OSHA or	ACOIII.	
	ΓP, OSHA or	;	
	N/A N/A None Dust Respirator Impervious gloves Safety glasses or goggles Protective work clothing. Wear closleeves/pants.  Physical and Chemical Characteristics  White Powder, Granules, Pellets, Sputter Odor like rotten eggs Insoluble N/A 1090 °C N/A N/A 2.02 g/cc 92.218 g/mol  10. Reactivity  Contacts with acids liberates toxic Stable under recommended storag Acids - Forms toxic gas. Oxidizing agents Acids Hydrogen Sulfide Sulfur oxides (SOx) Silicon Oxide Metal oxide fume  11. Toxicological Information  Causes serious eye irritation Causes skin irritation Fatal if swallowed. May cause irritation Inorganic silicon compounds may Prolonged inhalation may cause property in the compound of the co	N/A  None Dust Respirator Impervious gloves Safety glasses or goggles Protective work clothing. Wear close-toed show sleeves/pants.  Physical and Chemical Characteristics  White Powder, Granules, Pellets, Sputtering target, Codor like rotten eggs Insoluble N/A 1090 °C N/A N/A 2.02 g/cc 92.218 g/mol  10. Reactivity  Contacts with acids liberates toxic gas. Stable under recommended storage conditions. Acids - Forms toxic gas. Oxidizing agents Acids Hydrogen Sulfide Sulfur oxides (SOx) Silicon Oxide Metal oxide fume  11. Toxicological Information  Causes serious eye irritation Causes skin irritation Fatal if swallowed. May cause irritation Inorganic silicon compounds may be acute inhale Prolonged inhalation may cause pulmonary fib N/A N/A	N/A N/A N/A None Dust Respirator Impervious gloves Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.  Physical and Chemical Characteristics  White Powder, Granules, Pellets, Sputtering target, Custom parts Odor like rotten eggs Insoluble N/A 1090 °C N/A N/A 2.02 g/cc 92.218 g/mol  10. Reactivity  Contacts with acids liberates toxic gas. Stable under recommended storage conditions. Acids - Forms toxic gas. Oxidizing agents Acids Hydrogen Sulfide Sulfur oxides (SOx) Silicon Oxide Metal oxide fume  11. Toxicological Information  Causes serious eye irritation Causes skin irritation Fatal if swallowed. May cause irritation Inorganic silicon compounds may be acute inhalation irritar Prolonged inhalation may cause pulmonary fibrosis known N/A N/A

Very Persistent, Very Bioaccumulative: Notes:

N/A

Do not allow material to be released to the environment without proper

governmental permits.

Do not allow undiluted product or large quantities to reach ground

water, water course or sewage system. Avoid transfer into the environment.

### 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

# 14. Transportation Data

Hazardous:

Hazardous for transportation



Hazard Class:

4.3 Substances which, in contact with water, emit flammable gases.

Secondary Class:

6.1 Toxic Substances

Packing Group: UN Number:

UN3134

П

Proper Shipping Name:

Water-reactive solid, toxic, n.o.s. (Silicon (IV) sulfide)

- ; '	:	:::	• ; '	15. Re	Information	: ' '	: : :	• ; '	:	
Sec 304	Extremely Reportable Toxic Che	Quantitie		N/A N/A N/A			11	•:	::.	
		1.1		16 Other Information			11.	1.1		

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 09/07/2015