

SAFETY DATA SHEET

Date Rev SECTION 1. IDENTIFICATION Product Name: Zinc Silicate, Manganese-doped CAS #: 68611-47-2 Relevant identified uses of the substance: Scientific research and development Supplier details:) 	2/2022
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Supplier details:		
	ent	
Stanford Advanced Materials	1.1	
E-mail: sales@samaterials.com		
Tel: (949) 407-8904		
Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.		
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SECTION 2. HAZARDS IDENTIFICATION		
OSHA Hazards		
Irritant	1	
GHS Label elements, including precautionary statements		
Signal word Warning		
Hazard statement(s)	···.	
H315 Causes skin irritation.		
H319 Causes serious eye irritation.		
	111	

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Precautionary statement	(s)		•••			· · .			· · .				
P261 Avoid breathing du													
P305 + P351 + P338 IF	IN EYE	S: Rinse	cautiou	isly with	water for	severa	l minut	es. Remo	ve cont	act			
lenses, if present and easy to do. Continue rinsing.													
HMIS Classification										1			
Health hazard: 2	1 1			1 1		· · .			· · .				
Flammability: 0Physical I NFPA Rating	hazard	s: 0											
Health hazard: 2 Fire: 0		÷.		:	÷.		:		: • •				
Reactivity Hazard: 0	1 1		· · .		1.1	· · .			··.,				
Potential Health Effects													
Inhalation May be harmf													
Skin May be harmful if al	bsorbe	d through	skin. C	auses	skin irritat	ion.		1					
Eyes Causes eye irritatio													
Ingestion May be harmfu	ıl if swa	allowed.	· · · .		· · · '	· · ·		'	· · .				

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Zinc silicate, manganese-doped Formula : Zn2SiO4:Mn CAS: 68611-47-2

SECTION 4. 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

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physician.	· · .			· · · .	1 I 1		· · .				
In case of skin o	contact										
Wash off with se	oap and	l plenty	of wate	r. Consu	lt a phy	sician.				1	
In case of eye c	ontact										
Rinse thorough	ly with p	olenty o	f water f	for at leas	st 15 m		nd consu				
If swallowed	· · .					¹	· · .			· · .	
Never give anyt physician.	hing by	mouth	to an ur	nconscio	us pers	on. Rins	e mouth	with wa	ater. Con	sult a	
	1 - 1 - 1 1	1		: • •		1	1 1 1 1	1	1		
SECTION	5. FI	REFI	GHT		IEAS	SURE	S	1 I 1	'	· · .	
Suitable extingu Use water spray			tant foa							6	
Special protecti	ve equip	oment f	or fire-fi	ghters		;			;		1
Wear self conta	ined bre	eathing	appara	tus for fir	e fightir	ng if nece		,			·
SECTION	6. A(CCID	ENT	AL RE	ELEA	SE M	EASI	JRES	5	3	
Personal preca	utions										
Use personal pi Ensure				void dust						or gas.	
adequate			. :	1							
ventilation. Eva											
Environmental p	orecauti	ons	:			1			1		
Do not let produ	ict entei	r drains									
Methods and m creating dust. S					-	ıpPick u	o and arr	ange d	isposal v	vithout	

containers for

disposal.

SECTION 7. HANDLING AND STORAGE

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. Normal measures for

preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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).

Hand 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.

Eye 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 and 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. Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

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vailableU	pper ex	plosion	limit no da	ata ava	ilable			
le				1.1.1			111	
	ailable vailableU	ailable vailableUpper ex	ailable	ailable vailableUpper explosion limit no da	ailable for explosion limit no data ava	ailable for explosion limit no data available	ailable for any other states and the state of the state o	

SECTION 10. STABILITY AND REACTIVITY

Chemical stability										
Stable under recommen	ded st	orage con	ditions.					÷.		
Conditions to avoid	· ·		• • .	1 I	¹	· · .			· · · .	
no data available Materials to avoid		1 1 - 1	`:		, , ,				:	
Strong oxidizing agents Hazardous decompositio				1	÷.	1 1 1 1	1			:
Hazardous decompositio	on prod	ducts form	ned und	er fire	conditions	Zinc	oxides	, silicon o	xides	

SECTION 11. TOXICOLOGICAL INFORMATION Acute toxicity no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as а carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as а carcinogen or potential carcinogen by OSHA. Reproductive toxicity no data available Specific target organ toxicity - single exposure (Globally Harmonized System) Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure (Globally Harmonized System) no data available 👘 Aspiration hazard

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no data available	1 I 1		· · .	1 1	¹	· · · .			· · .	 '
Potential health effects										
Inhalation May be harm	ful if in	naled. C	auses re	espirato	ory tract i	rritation.			1	
Ingestion May be harmf										
Skin May be harmful if a	absorbe	ed throug	gh skin.	Causes	s skin irri	tation.	1	÷.		
Eyes Causes eye irritat	ion.		· · .			с.,	1 - 1 1		· · .	 '
Signs and Symptoms of	f Expos	sure				· .			· .	
To the best of our know										
thoroughly investigated	.Additic	nal Infor	mation		1	111	1	÷.	;••	:

SECTION 12. ECOLOGICAL INFORMATION

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Toxicity										
no data available	1	; • •		1			÷.	;**		
Persistence and degradabilit	ty									
no data available					· · · ,			· · ·		
Bioaccumulative potential		` :			1			1		
no data available										
Mobility in soil	1			÷.,				111		
no data available		· · .			· · .			· · .		
PBT and vPvB assessment										
no data available	1 1	1		н 1 - 1				1		
Other adverse effects no data available	1.		:	4,	: · ·	:	÷.	:	:	

SECTION 13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

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Contaminated packagin	ng		· · .						•••		
Dispose of as unused p											
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SECTION 14. T	RAN	ISPOF	RT IN	IFOR		ON		Ξ.	: • •		
DOT (US)	н н н		· · .	1 I 1	1.1 1	· · .			· · .		
Not dangerous goods IMDG						5		, , ,	:		
Not dangerous goods	:		: * *	1		;	1	١,			
Not dangerous goods			· · .			· · .					
						;					
SECTION 15. R	REGL	JLATC	DRY	INFC	RMA	ΓΙΟΝ	:	÷.	:	:	1
OSHA Hazards Irritant		¹	· · .		¹	···,			۰۰,		
DSL Status						1		1 1	1		
All components of this p	product	are on th	e Cana	adian D	SL list.						
SARA 302 Components	S				1			1			
SARA 302: No chemica	als in th	is materia	al are s	ubject t	o the repo	orting re	quirem	ents of S	ARA Titl	le III,	
Section 302.											
SARA 313 Components	S							1			
SARA 313: This materia	al does	not conta			-					s that	
exceed the threshold								1			
(De Minimis) reporting I	evels e	stablishe	d by SA	ARA (Tit	le III, Sec	tion 313	3. '		· · .		
SARA 311/312 Hazards	sAcute	Health Ha	azard						· .		
Massachusetts Right To	o Know	Compon	ents		1 1			1 1	Ĩ		
No components are sub	oject to	the Mass	achuse	etts Rig	ht to Know	w Act.		:			
Pennsylvania Right To	Know C	Componei	nts		ı			ı			
Zinc silicate		¹			¹	11		¹			

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CAS-No.	··.			· · .	1 I 1			1 I		· · .	 '
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Revision Date						, , ,					
New Jersey Rig											
Zinc silicate						1					
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Revision Date											
California Prop.	65 Con	nponen	ts	: ' '					1		1
This product do	es not c	ontain	any chem	icals kr	nown to	State of 0	Californi	ia to ca	use cance	er, birth	
defects, or any o	other	1 I		· · ,	1 I					· · .	 '
reproductive ha	rm.			· .						· .	

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.