

# SAFETY DATA SHEET

Revision Date 31-Mar-2024					<b>Revision Numb</b>	er 3	
and the second	1	1.1.1					

			1.	Identi	ificatio	n					
Product Name		Mulli	te	· · · ·	1		<sup>1</sup>	:			
Cat No. :		MC2	249								
CAS No Synonyms		1302-9 No infe	93-8 ormation a	vailable	н 1 - 1						
Recommended Use Uses advised against		Labora Food,	atory chem drug, pest	icals. icide or bi	ocidal prod	uct use.	• •	4		• •	:
Details of the supplie	r of the safe	-									
Stanford Advanced Ma 23661 Birtcher Dr. Lak CA 92630 USA Tel: +1 (949) 407-8904 Fax: +1 (949) 812-6690	e Forest,					111		н 1 - 1	111		
Emergency Telephon +1 (949) 407-8904											1

## 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

None required

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Page 1/7

kin Contact Wash imme   whalation Remonstrain Remonstrain   ngestion Clear symp   lost important symptoms and ffects None   lotes to Physician Treat   uitable Extinguishing Media Not c   Insuitable Extinguishing Media No in	e immediately cal attention. n off immediat ediately if sym ove to fresh a	ely with ple ptoms occu ir. Get med water and d oreseeable ally	of wat onty of ir. ical att	er, also under t water for at lea ention immedia terwards plenty	st 15 min tely if syr	nutes. Get me	edical atte	ention
kin Contact Wash imme   whalation Remo   ngestion Clear symp   lost important symptoms and ffects None   otes to Physician Treat   uitable Extinguishing Media Not c   nsuitable Extinguishing Media No in	e immediately cal attention. h off immediat ediately if sym ove to fresh ai n mouth with v otoms occur. e reasonably fe t symptomatic <u>5. Fire-f</u> combustible.	with plenty rely with ple ptoms occu ir. Get med water and d oreseeable ally	of wat onty of ir. ical att	er, also under t water for at lea ention immedia terwards plenty	st 15 min tely if syr	nutes. Get me	edical atte	ention
imme halation Remo ngestion Clear symp lost important symptoms and Mone ffects lotes to Physician Treat uitable Extinguishing Media Not c Insuitable Extinguishing Media No in	ediately if sym ove to fresh a n mouth with v otoms occur. e reasonably for t symptomatic <u>5. Fire-f</u> combustible.	ptoms occu ir. Get med water and d oreseeable ally	ır. ical att Irink af	ention immedia terwards plenty	itely if syr	mptoms occu	ur.	1.1
Ingestion Clear symp   Iost important symptoms and ffects None   Iotes to Physician Treat   uitable Extinguishing Media Not c   Insuitable Extinguishing Media No in	n mouth with votoms occur. The reasonably for t symptomatic 5. Fire-f	water and d oreseeable ally	lrink aft	terwards plenty				
symp lost important symptoms and ffects lotes to Physician Treat uitable Extinguishing Media Not c Insuitable Extinguishing Media No in	e reasonably for t symptomatic 5. Fire-f	oreseeable. ally	· • ·		of water	. Get medica	attention	n if
ffects Treat   lotes to Physician Treat   uitable Extinguishing Media Not c   Insuitable Extinguishing Media No in	t symptomatic 5. Fire-f combustible.	ally		asures				••••
otes to Physician Treat   uitable Extinguishing Media Not c   Insuitable Extinguishing Media No in	5. Fire-f		mea	asures			1.1.1	
Insuitable Extinguishing Media No in	combustible.	ighting	mea	asures				
Insuitable Extinguishing Media No in								
	formation ava							*
		ailable						
	formation ava						;**	
utoignition Temperature No in xplosion Limits	formation ava	ailable						
Upper No da	ata available ata available formation ava	ailable	1					
	formation ava		1			:		1.1
pecific Hazards Arising from the Chemic eep product and empty container away from		ources of igr	nition.					
azardous Combustion Products ilicon dioxide. Fumes of aluminum or alumin rotective Equipment and Precautions for						н 1 — 1	: ' '	
s in any fire, wear self-contained breathing rotective gear.			and, N	ISHA/NIOSH (a	approved	or equivaler	it) and ful	I
IFPA HealthFla	ammability			Instability		Physic	cal hazar	ds
0	1			0			-	
				measures				
nvironmental Precautions Shou	ation.			rsonal protectiv				
lethods for Containment and Clean Swee		vel into suit	table c	ontainers for di	sposal. A	void dust for	mation.	

		Handling and st				
landling	Wear perso contact wit	onal protective equipment h skin, eyes or clothing. A	/face protection. Ensui void ingestion and inh	re adequat alation. Ave	e ventilation. bid dust form	Avoid ation.
Storage.		ainers tightly closed in a d Oxidizing agent.	ry, cool and well-ventil	ated place.	Incompatib	le 🗥
	8. Exposure	controls / perso	onal protectio	n		
xposure Guidelines			· · · ·			
Component	ACGIH TLV	OSHA PEL	NIOSH		Mexico OEL	(TWA)
Mullite	TWA: 1 mg/m <sup>3</sup>		1	1	TWA: 1 p	pm
egend						
CGIH - American Conference	ce of Governmental Industri	al Hygienists				
ngineering Measures	None unde	r normal use conditions.				
ersonal Protective Equ	lipment			1		
Eye/face Protection		opriate protective eyeglas e and face protection reg				
Skin and body protec	ction Wear appro	opriate protective gloves a	and clothing to prevent	skin expos	sure.	
Respiratory Protection	on No protecti	ve equipment is needed u	under normal use cond	itions.	111	
Recommended Filter	r type: Particle filte	er.				
Hygiene Measures	Handle in a	accordance with good indu	ustrial hygiene and saf	ety practice	<del>)</del>	
	9. Physic	cal and chemica	I properties			•
ppearance	9. Physic	Solid No inform	Il properties ation available ation available	:		
Physical State ppearance odor Odor Threshold H	9. Physic	Solid No informa No informa No informa No informa	ation available ation available ation available ation available	:'	- - - - -	
Appearance Odor Odor Threshold H Melting Point/Range Boiling Point/Range	9. Physic	Solid No informa No informa No informa No informa No data a No informa	ation available ation available ation available ation available	:'		
ppearance odor odor Threshold H leiting Point/Range oiling Point/Range lash Point vaporation Rate lammability (solid,gas)		Solid No informa No informa No informa No data a No informa No informa No informa No informa	ation available ation available ation available ation available vailable ation available ation available		. ,	
ppearance odor odor Threshold H lelting Point/Range lash Point vaporation Rate lammability (solid,gas) lammability or explosiv Upper Lower		Solid No informa No informa No informa No data a No informa No informa Not applic No informa No data a No data a	ation available ation available ation available ation available vailable ation available ation available able ation available vailable		· · · · · · · · · · · · · · · · · · ·	
ppearance odor odor Threshold H lelting Point/Range lash Point vaporation Rate lammability (solid,gas) lammability or explosiv Upper Lower apor Pressure apor Density pecific Gravity		Solid No informa No informa No informa No data a No informa No informa Not applic No data a No informa	ation available ation available ation available ation available vailable ation available ation available able ation available vailable ation available able ation available			
ppearance dor dor Threshold H lelting Point/Range lash Point vaporation Rate lammability (solid,gas) lammability or explosiv Upper Lower apor Pressure apor Density	ve limits octanol/water re	Solid No informa No informa No informa No informa No data a No informa No informa No data a No data a No data a No data a No informa Not applic No informa No informa No informa No informa No informa	ation available ation available ation available ation available vailable ation available able ation available vailable vailable ation available able ation available able			

		10. Stab	oility a	and rea	ctivity			1 - 1 1		
active Hazard		None known, bas	ed on info	ormation av	ailable					
ability		Stable under norr	nal condi	tions.						
onditions to Avoid		Incompatible proc	ducts.							
compatible Materia	als	Oxidizing agent								
zardous Decompo	sition Product	<b>s</b> Silicon dioxide, F	umes of a	aluminum o	r aluminum o	kide				
zardous Polymeri	zation	Hazardous polym	erization	does not o	ccur.	'				
zardous Reaction	S	None under norm	None under normal processing.							
		11. Toxic	ologia	cal info	rmation					
cute Toxicity		1		1 1			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -			
oduct Information	ion			:			1			
Component		LD50 Oral	-1-	L	D50 Dermal			0 Inhalatio	-	
Mullite		Not listed			Not listed		LC50 > 2.	19 mg/L(I	kat)4h	
oxicologically Syne oducts elayed and immedi	-		ects fron	n short and	l long-term e	xposu	re_	·		
itation ensitization arcinogenicity		No information av			: * *		н н н	111		
		The table below i	ndicates	whether ea	ch agency ha	s listed	any ingredier	nt as a car	cinoaen.	
		The table below in		1.		s listed				
Component Mullite	<b>CAS No</b> 1302-93-8	The table below in	N	whether ea ITP	ch agency ha ACGIH Not listed	s listed	any ingredier OSHA Not listed	M	cinogen. exico t listed	
Component Mullite utagenic Effects	1302-93-8	IARC Not listed No information av	Not vailable	ITP	ACGIH	s listed	OSHA	M	exico	
Component Mullite utagenic Effects	1302-93-8	IARC   Not listed   No information av   No information av	Not vailable vailable.	ITP	ACGIH	s listed	OSHA	M	exico	
Component Mullite utagenic Effects eproductive Effects	1302-93-8	IARC Not listed No information av	Not vailable vailable.	ITP	ACGIH		OSHA	M	exico t listed	
Component Mullite utagenic Effects eproductive Effects evelopmental Effect	1302-93-8	IARC   Not listed   No information av   No information av	Not vailable vailable. vailable.	ITP	ACGIH	s listed	OSHA	M	exico	
Component Mullite utagenic Effects eproductive Effects evelopmental Effect eratogenicity	1302-93-8	IARC   Not listed   No information av   No information av   No information av	Not vailable vailable. vailable.	ITP	ACGIH		OSHA	M	exico t listed	
Component Mullite Utagenic Effects eproductive Effects evelopmental Effect tratogenicity TOT - single exposition TOT - repeated exp	1302-93-8	IARC     Not listed     No information av	vailable vailable. vailable. vailable. vailable.	ITP	ACGIH		OSHA	M	exico t listed	
Component Mullite Mullite Mullite Mullite Mullite Componental Effects evelopmental Effect eratogenicity FOT - single exposition FOT - repeated exp spiration hazard (mptoms / effects,	1302-93-8 s its ure osure	IARC   Not listed   No information avoid   None known   No information avoid   No information avoid	vailable. vailable. vailable. vailable. vailable.	ITP	ACGIH		OSHA	M	exico t listed	
Component Mullite   utagenic Effects   eproductive Effects   evelopmental Effect   eratogenicity   FOT - single exposition   FOT - repeated explored   spiration hazard   ymptoms / effects,   elayed	1302-93-8 sts ure osure both acute and	IARC   Not listed   No information avoid   None known   No information avoid   No information avoid	vailable. vailable. vailable. vailable. vailable. vailable	ITP	ACGIH		OSHA	M	exico t listed	
Component Mullite   utagenic Effects   productive Effects   evelopmental Effect   ratogenicity   OT - single expositor   OT - repeated expositor   opiration hazard   raptoms / effects, layed   idocrine Disruptor	1302-93-8 sts ure osure both acute and Information	IARC   Not listed   No information avoid   None known   No information avoid   No information avoid   No information avoid	vailable. vailable. vailable. vailable. vailable. vailable vailable	ITP   listed	ACGIH Not listed	· · · · · · · · · · · · · · · · · · ·	OSHA Not listed	M	exico t listed	
Component	1302-93-8 sts ure osure both acute and Information	IARC   Not listed   No information avoid   No information avoid	vailable vailable. vailable. vailable. vailable. vailable vailable propertie	ITP listed	ACGIH Not listed	· · · · · · · · · · · · · · · · · · ·	OSHA Not listed	M	exico t listed	

Do not empty into drains.

Persistence and Degradability	Insoluble in water
<b>Bioaccumulation/ Accumulation</b>	No information available.
Mobility	Is not likely mobile in the environment due its low water solubility.
	13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

		14. Trans	port inform	mation		
DOT		Not regulated				
<u>DOT</u> <u>TDG</u> IATA		Not regulated				
IATA		Not regulated				
IMDG/IMO	 	Not regulated				 
		15. Regula	atory infor	mation		

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Mullite	1302-93-8	X	ACTIVE	

#### Legend:

**TSCA** US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CF Substances & Mi	-		Not applicable
			1

TSCA 12(b) - Notices of Export

#### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL	
Mullite	1302-93-8	Х	-	215-113-2	Х	Х	X	Х	Х	KE-01057	

Not applicable

**KECL** - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	 Not applicable			
Clean Air Act	Not applicable			

**OSHA** - Occupational Safety and Not applicable Health Administration CERCLA This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material. **California Proposition 65** This product does not contain any Proposition 65 chemicals. U.S. State Right-to-Know Not applicable Regulations **U.S.** Department of Transportation Reportable Quantity (RQ): Ν **DOT Marine Pollutant** Ν DOT Severe Marine Pollutant Ν **U.S. Department of Homeland** This product does not contain any DHS chemicals. Security Other International Regulations Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

REACH (1907/2006) -REACH (1907/2006) -**REACH Regulation (EC** CAS No Component Annex XIV - Substances Annex XVII - Restrictions 1907/2006) article 59 Subject to Authorization Candidate List of on Certain Dangerous Substances of Very High Substances Concern (SVHC) Mullite 1302-93-8

Not applicable

#### Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Mullite	1302-93-8	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

	Component	 CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)	
			for Major Accident	for Safety Report			
			Notification	Requirements			
[	Mullite	1302-93-8	Not applicable	Not applicable	Not applicable	Not applicable	

	1.1	1	1	1	1 1	1		1.1	1
			16. Other	informa	tion				
Prepared By			Stanford Advanced Mate Email: sales@samaterial www.samaterials.com						
Revision Date Print Date Revision Summa	ary		31-Mar-2024 31-Mar-2024 New emergency telephor	ne response	service prov	vider.	:		

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

			: * *			:	End of S	DS					÷ .
					1.					1			1
		al a			:	11	'	i i i		i.	1 - 1 1		:
					:.		· · ·					1 I 1	1
	'	:		'		н н н	'	· · · ·		:		'	1
						1 1					:		
		÷.,			Ξ.		• •	:		÷.			1
	*	:		*	;	н н н			'	:		'	
		: . : .	;••								:**		
		÷.			Ξ.		· · ·	i		÷.			
1	'						'	, , , , , , , , , , , , , , , , , , ,	'		1 - 1		
							/	-					