

SAFETY DATA SHEET

	: • •					:	111	Date	Accesse	ed: 25/08	8/2023
				н н н				Dat	e Revise	ed: 28/11	/2022
		1	1 I		1	1 I	1.	, í	· · ·	1. 	: 1
SECTION 1											
Product Name:						1	1.1.1			111	
CAS #: 471-34-1	-	-									
Relevant identif											
Supplier details				tance. o	CIGITU	ne resea		deven	pment		
Stanford Advance E-mail: sales@sa	ed Ma	terials rials.coi	; m			;			:		
Tel: (949) 407-89	904										
Address: 23661 I	Birtche	er Dr., L	ake Fore	est, CA 9							
Address: 23661 I			ake Fore			J.S.A.	1. 1.	1			:
Address: 23661 E					:						
<u>at 11</u>	2. H <i>i</i>	AZAF	RDS I	DENT	IFIC		N :		:	111	
SECTION 2	2. H/ the sub	AZAF ostance	RDS II	DENT Jre	TIFIC		N :*** : *			: 	
SECTION 2 Classification of t	2. H/ the sub	AZAF ostance g to Reg	RDS II	DENT ure (EC) No	TFIC	ATIO 2008	N 200 200 201	···· :: ::			 : :
SECTION 2 Classification of t Classification acc The substance is regulation.	2. HA	AZAF ostance g to Reg assified	RDS I e or mixtu gulation (d as haza	DENT ure (EC) No ardous to	TIFIC 1272/2 health	ATIO	N N N N N N N N N N N N N N N N N N N	ent acc	ording to	o the CLF	
SECTION 2 Classification of t Classification acc The substance is	2. HA the sub cording not cl	AZAF ostance g to Reg assified	RDS I e or mixtu gulation (d as haza ective 67	DENT ure (EC) No ardous to	TIFIC 1272/2 health	ATIO	N	ent acc	ording to	o the CLF	· · · ·
SECTION 2 Classification of t Classification acc The substance is regulation. Classification acc	2. HA the sub cording not cl	AZAF ostance g to Reg assified	RDS I e or mixtu gulation (d as haza ective 67	DENT ure (EC) No ardous to	TIFIC 1272/2 health	ATIO 2008 In or the e	N nvironme 999/45/E	ent acc	ording to	o the CLF	· · · ·

Hazards not otherwise classified

No data available

·		1									
Label elements											
Labelling according to R	egulati	on (EC) N	No 1272	2/2008							
N/A		1	· .			· .	1		· .	1	
Hazard pictograms			1 1 1 1		:	1 1 1 1		:1			:
Signal word	-						:			:	
N/A Hazard statements			1.	ť			;	• •	÷.,	:	
N/A WHMIS classificationNo			:**		a' l	: · ·		:			:
Classification system											
HMIS ratings (scale 0-4))		۰.			1.			1. 1.	:	
(Hazardous Materials Id											
HEALTH		:	1.1.1		:	: • •		e ^t			:
FIRE REACTIVITY	:		н н Н	:			:			:	
0:	:	1 I	14	t.	1 I	14	÷		1.	÷	
0 1 […] : ¹		ť	:		ť	;••		:	;		:
Health (acute effects) =	0		1 I 1						1 - 1 1		
•		н н н	14	t.	н н н	14	:		1. 1.		
Other hazards											
Results of PBT and vPv	B asse	ssment				111		t.			:
PBT:			н н н								
N/A vPvB:			14. 1	a' i	1 - 1 1	14. 1	:		14. 14.	:	
N/A		: ¹	1 1 1 1		e la companya de la c	1 1 1 1		÷	: **		:
	1		н н 1			1 I	:			;	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances					· · ·	1. 1.		1 - 1 1		1
CAS No. / Substance Na	ame:									
471-34-1 Calcium carbo	nate	1			1	111			: • •	
Identification number(s): EC number:		at in	н н Н	1			:			
207-439-9	:			:	1 - 1 1		:		`.	
						; • •		:		
SECTION 4. FIF	RST		EASI	JRES	S		:		: •	:
Description of first aid m If inhaled:				:					1.	
Supply patient with fresh	n air. If	not breath	ning, pro	ovide ar	tificial res	piration	ı. Keep	patient wa	arm.	
Seek immediate medica	l advice									
In case of skin contact:	1			1						
Immediately wash with s Seek immediate medica			rinse the	proughl	у.		1	1 I	· ,	:
In case of eye contact:			: • •			: • •			: **	
Rinse opened eye for se If swallowed:	everal n	ninutes ur	nder run	nina w	ater Cons	sult a pł	nysiciar	r		
Seek medical treatment	· :'		1. 1.	:		1.	t.		14	ti i
Information for doctor										
Most important sympton	ns and	effects, bo	oth acut	e and c	delayed	111		:	: * *	
No data available Indication of any immed										1
No data available	:			:				· · ·		

SECTION 5. FIREFIGHTING MEASURES

					,					
Extinguishing media										
Suitable extinguishing agents										
Product is not flammable. Use	fire-fighti						fire.			
Special hazards arising from th										
If this product is involved in a fi	re, the fo	llowing	can be	e release	d:			; · ·		
Carbon monoxide and carbon o	dioxide				1 - 1 1			· · ·		
Calcium oxide					· .	. '				
Advice for firefighters		,	1	,	,	1			1	
Protective equipment:				.1			. 1			
Wear self-contained respirator.										
Wear fully protective imperviou	s suit.							1 I 1		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipm	ent and	emerg	ency proc	edures				
Use personal protective equipment. Kee	p unprot	tected p	persons av	way.				
Ensure adequate ventilation	1. 1.		н н н	14. 19	1		1. 1.	i.
Environmental precautions:								
Do not allow material to be released to the	ne envire	onment	without o	fficial p	ermits.			
Do not allow product to enter drains, sew	vage sys	stems,	or other w	ater cou	urses.			
Do not allow material to penetrate the gr	ound or	soil.						
Methods and materials for containment a	and clea	nup:	1				· · .	1
Pick up mechanically.								
Prevention of secondary hazards:			i'			:		
No special measures required.		1		н н н				-
Reference to other sections							• .	
See Section 7 for information on safe ha		1	1	1		,	1	
See Section 8 for information on persona	al protec	tion eq	uipment.				;••	
See Section 13 for disposal information.								

							1
SECTION 7. HANDLING AND STO	RAGE					1	. '
Handling	· · ·	· .		н н н	1. 1.		
Precautions for safe handling							
Keep container tightly sealed.		1 1 1 1		1	; • •		:
Store in cool, dry place in tightly closed containers.		1 1	:			:	
Information about protection against explosions and fi			1			;	
The product is not flammable	1 - 1 1			н н н	14	1	
Conditions for safe storage, including any incompatibi	lities						
Requirements to be met by storerooms and receptacle	es:	1 1 1			: • •		;
No special requirements.							
Information about storage in one common storage fac	ility:						
Keep away from fluorine		· ·					
Do not store together with acids.							
Store away from oxidizing agents.							:
Further information about storage conditions:		1 I	1				. '
Keep container tightly sealed.		· .			· .		
Store in cool, dry conditions in well-sealed containers.		,	,	,			
Specific end use(s)No data available							:
· · · · · · · · · · · · · · · · · · ·							
				.'		:	. '
SECTION 8. EXPOSURE CONTRO	DLS/PE	KSO	NAL	· · ·	1. 1.	:1	
PROTECTION							
Additional information about design of technical system	ms:			:			:
Properly operating chemical fume hood designed for h	nazardous o	hemic	als and	having ar	n avera	ge	
face velocity of at least 100 feet per minute.		,					
Control parameters	1 I		1		14		
Components with limit values that require monitoring a	at the workp	lace:					
471-34-1 Calcium carbonate (100.0%)	:	111			111		;

PEL (USA) Long-term value: 15* 5** mg/m

	1	1.1.1		111					1	1 1 1		1
3												
*total dust **resp	oirable	fractior	ı									
REL (USA) Long	j-term	value: [^]	10* 5** m	ng/m				:		1.1		
3												
*total dust **resp	oirable	fractior	:' 1									
TLV (USA) TLV	withdra	awn					1 - 1 1					
Additional inform	nation:											
No data		i	,		1				ı		i	
Exposure contro	ls											
Personal protect												
Follow typical pro	otectiv	e and h	iygienic p	oractices	for ha	ndling ch	emicals.					
Keep away from	foodst	uffs, be	everages	and fee	d.		÷.,			· .		
Remove all soile	d and	contam	inated c	lothing ir	nmedia	ately.						
Wash hands bef	ore bre	eaks an	d at the	end;of w	ork,				:			
Maintain an ergo	nomic	ally app	oropriate	working	enviro	nment.						
Breathing equipr	nent:	1	, '	,		. '		1		,	1	
Use suitable res	pirator	when h	nighicond	centratio	ns are	present.	14	:			:	
Recommended f	ilter de	evice fo	r short te	erm use:								
Use a respirator	with ty	vpe N95	5 (USA) o	or PË (El	N 143)	cartridge	s as a ba	ackup t	o engine	ering cor	ntrols.	
Risk assessmen	t shou	ld be pe	erformed	to deter	mine if	air-purify	ing resp	irators	are appr	opriate. (Only	
use equipment te	ested a	and app			-	-						
Protection of har	nds:		1 I	14. 1				1		14.		
Impervious glove	es											
Inspect gloves p	rior to	use.				: ¹			t.			:
Suitability of glov by	es sho	ould be	determir	ned both	by _∶ ma	terial and	quality,	the lat	er of wh	ich may v	/ary	
manufacturer.				1. 1.			1. 1.	:		14	e la composición de la compo	
Penetration time												
No data available	e			111			111		t.	; • •		:
Eye protection:												

Safety glasses				1		
Body protection:						
Protective work clothing.						

and the state of the state of the			:			:			
SECTION 9. PHYSICAL	AND	CHE	MICA		OPE	RTIES	н н н	1	
Information on basic physical and ch	emical pro	perties	· · ·			· · ·		e ^r	
Appearance: Form: Powder			:			:			
Color: White Odor: Odorless	· · ·				:				
Odor threshold: No data available.		:'	· · ·	1. 1.		· · ·		i.	
pH: N/AMelting point/Melting range: 8	800 °C (14	72 °F)	(dec)						
Boiling point/Boiling range: No data a	available			; • •		i.	111		
Sublimation temperature / start: No d Flammability (solid, gas)	lata availa	ble		н н н	:		н н н		
No data available.		i.		1. 1.	:			:	
Ignition temperature: No data availab	ole								
Decomposition temperature: No data	available		:			:	: • •		
Autoignition: No data available.									
Danger of explosion: Product does n	ot present	an exp	losion h	azard.					
Explosion limits:		1			:		· · ·		
Lower: No data available									
Upper: No data available			:			:			
Vapor pressure: N/A				· · ·					
Density at 20 °C (68 °F): 2.93 g/cm 3		:		Ч.,	:	· · · ·	1. 1.	:	
(24.451 lbs/gal)			:	:**		:			
Relative density No data available.		:			:				ı

			i									i
Vapor density												
N/A												
Evaporation rate				· · .			· · .					
N/A												
Solubility in Water	H)					:			1	I		
2	1			1 I 1			· · ·	-				. '
O): Insoluble	·			·			·			·		
Partition coefficier	nt (n-oc	tanol/v										
Viscosity:									:			;
Dynamic: N/A												
Kinematic: N/A												. '
Other information		:	1 I 1	с. С.	:	1 I	с. С.	:	1 I		:	
No data available												
			;						:			;
SECTION 1	0. S ⁻	ГАВ		AND	REA		ΓY			н н н	:	
Reactivity	1. 1.			1.	e ⁿ	· · ·	1. 1.	:			:	
No data available												
Chemical stability						1			:	111		;
Stable under reco	mmeno	ded sto	orage con	ditions.								
Thermal decompo												
Decomposition wi	ll not o	ccur if	used and	stored	accord	ing to spec	cificatio	ns.				
Possibility of haza	rdous											
Reacts with strong	g oxidiz	zing ag	ents			: ¹						
Conditions to avoi	d			· · ·						н н н	1	. '
No data available	· .				, '		· .	. *		· .		
Incompatible mate	erials:				1				,			
Acids Fluorine			4 4 4			e ^r			:	; · ·		
Oxidizing agents	1 I	1	, ' , '		}			}				

Hazardous decomposition	products:					1			
Calcium oxide									
Carbon monoxide and car	bon dioxide		:	1					
				: ¹	111		:		
SECTION 11. TO	XICOLO	GICA		IFOR	MATIO	ON			
Information on toxicologica	al effectsAcut	e toxici	ty:		·			• .	
The Registry of Toxic Effe	cts of Chemic	cal Sub							,
data for this substance.	··· · · · · · · · · · · · · · · · · ·			. '					
LD/LC50 values that are re				,					
Oral LD50 6450 mg/kg (ra	t)								
Skin irritation or corrosion:		÷.,	:	· · ·					÷
May cause irritation									
Eye irritation or corrosion:		; • •		e l'			:	111	
May cause irritation									
Sensitization:									
No sensitizing effects know	wn.	1. 1.	:		1. 1.	1	· · ·	14	÷.
Germ cell mutagenicity:									
No effects known.		; • •					t.	111	
Carcinogenicity:			;						:
No classification data on c	arcinogenic p	propertie	es of th	is materi	ial is avai	lable fr	om the E	PA, IAR	C,
NTP, OSHA or ACGIH.		1. 1.			1. 1.	1		14	÷
Reproductive toxicity:									
No effects known.							t,	111	
Specific target organ syste	em toxicity - r	epeateo	l expos	sure:					
No effects known.			,						
Specific target organ syste	em toxicity - s				' ,	1		· .	:
No effects known.				,			,		
Aspiration hazard:	··				1		1		
No effects known.			1	. '					:

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for

this substance.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity				:							111	
Aquatic to	oxicity:				н н н							
No data a	vailable	•						·				
Persisten	ce and o			,					,			
No data a	vailable	; • •			; • •			; • •			; • •	
Bioaccum	nulative	ootentia	l									
No data a	vailable				1 1							
Mobility in	n soil	1.	1	н н н	1.		· ·	1. 1.			1.	:
No data a	available											
Additiona	l ecologi	cal info	rmatio	n:	1 1 1		:				:	
Do not all	low mate	erial to b		ased to the								
Avoid trai	nsfer into	o the en	vironm	ient.	1							
Results o	f PBT ar	nd vPvE	asses	sment		1			1	· · ·	${}^{\rm b}{}_{\rm c}$	e ^r
PBT:												
N/A								: * *			; • •	
vPvB:	1											
N/A												
Other adv	verse eff	ects	1	· ·	· .			1.			14. 1	:
No data a	vailable											
					1 1 1							
: .·		1 - 1 1	;		1 1 1	:		1 1 1				}

			I		1	1					
SECTION 1	3. DISPO	OSAL (CON	SIDE	RATIO	ONS	}	, · ¹			. '
Waste treatment r	nethods	н н н	1. 1.			1. 1.	:		1. 1.	:	
Recommendation											
Consult official ree	gulations to e	nsure pro	per disp	oosal.		: • •			: • •		
Uncleaned package Recommendation							;		н н н		
Disposal must be	made accord	ling to offi	cial reg	ulations	5.	14	÷		14	1	,
····			1 1 1 1 1			1 1 1 1 1					
SECTION 1	4. TRAN	ISPOR		FOR	MATIC		;				
UN-Number DOT, ADN, IMDG	, IATA	1 - 1 1	1.	;	1 - 1 1	1. 1.	:	1 - 1 1	14. 14.	: ¹	
N/A UN proper shippir				1.1.1	:			:			
DOT, ADN, IMDG	, IATA			1							. '
N/A Transport hazard			14. 1	: ¹	· · ·	14. 1	:	• •	14. 1	: ¹	
DOT, ADR, ADN,	IMDG, IATA	e ⁿ			a' l	; • •		: 1	;••		
Class N/A				:			;			:	. '
Packing group			1.	1	1 1 1	1.			1. 1.	:	
DOT, IMDG, IATA	Λ										
N/A					:				;**		
Environmental ha N/A	zards:		н н н	;			1		н н н	;	. '
Special precaution	ns for user	· · ·		:			:			e ⁿ	
Transport in bulk	according to	Annex II o		POĽ73/	78 and the	e IBC C	ode		;**		:
N/A								, ^{, ,}			

Transport/Additional information:			 1	. '	
DOT					
Marine Pollutant (DOT):	<u>, , , , , , , , , , , , , , , , , , , </u>	1		1	
No					

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulat	tions/leg	gislation	specific f	or the s	ubstan	ce or mixt	ure	
National regulations	: · ·		. '					
All components of this product are listed								
Substances Control Act Chemical substa	ance Inv	ventory.						
All components of this product are listed	on the	Canadia	n Domes	tic Subs	stances	s List (DSI	_).,	:
SARA Section 313 (specific toxic chemic	al listing	gs)						
Substance is not listed.	: • •					:	: • •	
California Proposition 65								
Prop 65 - Chemicals known to cause car	ncer	:	. '	1				:
Substance is not listed.	1.	1	· ·		:			:
Prop 65 - Developmental toxicity								
Substance is not listed.	; • •					:	111	
Prop 65 - Developmental toxicity, female	Substa	nce is n	ot listed.					
Prop 65 - Developmental toxicity, male								
Substance is not listed.	14	1		11			14	÷
Information about limitation of use:								
For use only by technically qualified indiv	/iduals.					:		
Other regulations, limitations and prohibi	tive reg	ulations					 	
Substance of Very High Concern (SVHC) accord	ding to t	he REAC	H Regu	lations	(EC) No.	1907/20	006.
Substance is not listed.		;	,		i	,		
The conditions of restrictions according t	o Article	e 67 and	Annex X	VII of th	ne Reg	ulation (E	C) No	
1907/2006 (REACH) for the manufacturi	ng, plac	ing on t	he marke	t and us	se mus	t be obser	ved.	
Substance is not listed.						$\mathcal{A}^{(1)}$:

Annex XIV of the REACH Regulations (requiring Authorisation for use)												
Substance is not listed.												
REACH - Pre-registered substances					:		14	:				
Substance is listed.												
Chemical safety assessment:			:			t i						
A Chemical Safety Assessment has no		1		 	1							

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.

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	:	н н н		1	· · ·		1	1 1 1		:	1 I		;	
		:	: • •			: • •		ť	1.1		i.	:**		
				:		1 - 1 1	1			-		1 - 1 1	1	.'
	: ¹		14. 14.		· ·	14. 1	i.		14. 14.	1		14	:	
		a' i	;••		;	: **		, ¹	111		l.	111		:
				:		1 - 1 1	1			-		1 - 1 1	1	.'
· .	:		14		· ·	14. 1	i.		14. 14.	1		14	:	
		:	:		;	:		;	:**		ť	:**		
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						1								