

SAFETY DATA SHEET

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								Dat	e Revised	d: 13/11	/2022
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SECTIO				_							
Product Nan					· · · ·			· · .		: • •	· · .
CAS #: 1314											
Relevant ide	entified us	ses of t	the subs	stance: S	Scientif	fic resea	rch and	develo	opment		
Supplier det	ails:				·						
Stanford Adv	anced Ma	aterials	· .			· .			1. 1.		
E-mail: sales	@samate	rials.co			,	,		1	ı		
Tel: (949) 40	7-8904	1			1	`: :		1			1
Address: 236	61 Birtche	er Dr., l	_ake For	est, CA 🤅	92630 l	J.S.A.					
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SECTIO	N 2. H	AZA	RDS I	DENI	IFIC						
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SECTIO Classification GHS Classific Acute aquatio Chronic aqua GHS Label e Pictogram Signal word	N 2. H of the su cation in a c toxicity((atic toxicity lements, i	AZAI bstance accorda Categor y(Categor ncludin	RDS I e or mixtr ince with ry 1), H40 jory 1), H	DEN1 ure 29 CFR 00 1410 utionary s	1910 (ATIO	CS)				

			· .			1.			1.	· · ·	· ·
Very toxic to a	quatic lif	e with l	ong lasti	ng effect	S.						
Precautionary	stateme	nt(s)									
P273			:						1 ¹		1
Avoid release											
P391Collect sp	oillage.	· · · .	· .		· · · ,	14		· · .		 11	1.
P501		1				`: :			1		1
Dispose of cor	itents/ co	ontaine	r to an a	pproved	waste	disposal	plant.				
Hazards not ot									t.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances			;								
CAS No. / Substar	nce Na	ame:									
1314-13-2 Zinc ox	ide	· · .			· · .			· · .		: • •	· · .
Identification numb	• • •		3		1	1) 1)		÷.	`:		÷.
215-222-5			:						:		
Index number:											
030-013-00-7		11		111	· · .	Ч. С.	111	··.		111	11. 1

SECTION 4. FIRST AID MEASURES

Description of first aid measures If inhaled: Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice. In case of skin contact:

Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for sev	eral minutes	under ru	inning v	water. Co	onsult a p	ohysicia	an.			
If swallowed:										
Seek medical treatment.							t.			:
Information for doctor										
Most important symptoms	and effects,	both act	ute and	delayed				111	· · · .	
No data available	i. i.					1	1		1	
Indication of any immedia	te medical at	tention a	and spe	cial treat	ment ne	eded				
No data available		. * *	, '	:		, '	:		. '	
ing the state of t	·							111	•••	•
SECTION 5. FIR	EFIGHTI		IEAS	URE	S	1	1			
SECTION 5. FIR										
	et en et									:
Extinguishing media	ents			: :			: 			
Extinguishing media Suitable extinguishing age	ents Use fire-figh	ting mea	asures t	hat suit t			: 			
Extinguishing media Suitable extinguishing age Product is not flammable.	ents Use fire-figh om the subst	ting mea ance or	asures t mixture	hat suit t	he surro		: 			
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fre	ents Use fire-figh om the subst in a fire, the f	ting mea ance or ollowing	asures t mixture can be	hat suit t release	he surro d:	unding	fire.			
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved i	ents Use fire-figh om the subst in a fire, the f	ting mea ance or ollowing	asures t mixture can be	hat suit t release	he surro d:	unding	fire.			
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved i Metal oxide fume	ents Use fire-figh om the subst in a fire, the f	ting mea ance or ollowing	asures t mixture can be	hat suit t release	he surro d:	unding	fire.			
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved i Metal oxide fume Advice for firefighters Protective equipment:	ents Use fire-figh om the subst in a fire, the f	ting mea ance or ollowing	asures t mixture can be	hat suit t	he surro d:	unding	fire.			• •
Extinguishing media Suitable extinguishing age Product is not flammable. Special hazards arising fro If this product is involved i Metal oxide fume Advice for firefighters	ents Use fire-figh om the subst in a fire, the f	ting mea ance or ollowing	asures t mixture can be	hat suit t	he surro d:	unding	fire.			· .

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use personal protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Environmental precautions:
Do not allow material to be released to the environment without official permits.
Do not allow product to enter drains, sewage systems, or other water courses.

Do not allow material to penetrate the gro	ound o	r soil.						1	
Methods and materials for containment a		•							
Pick up mechanically.									
Prevention of secondary hazards:									
No special measures required.					· · ·			11.	
Reference to other sections								1	
See Section 7 for information on safe har	ndling	. '	. '						
See Section 8 for information on persona	l prote	ction ed							
See Section 13 for disposal information.		· · ·		111				···,	· .
			· .						•
SECTION 7. HANDLING A	ND S	STO	RAGE	- 1- 1 1		al a			;
Handling									
Precautions for safe handling		· · .	· .		· · .			· · .	÷.,
Keep container tightly sealed.	. '				;	· .			
Store in cool, dry place in tightly closed c			,	1	1	r.	1		
Ensure good ventilation at the workplace						: ¹	. * *		;
Information about protection against expl									
The product is not flammable		11. 1			· · ·		: ' '	· · .	÷.,
Conditions for safe storage, including any	/ incon	npatibili	ties					1	
Requirements to be met by storerooms a	nd rec	eptacle	S:						
No special requirements.						:	. 11		
Information about storage in one commo		-	-						
Store away from oxidizing agents.		· · .	1.		· · .			11.	÷.,
Further information about storage conditi	oņs:								
Keep container tightly sealed.			. 1						
Store in cool, dry conditions in well-seale	d conta	ainers.			. '			. '	
Specific end use(s)	; • •		· .			· .			· .
No data available		,	ı		1	,		,	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. **Control parameters** Components with limit values that require monitoring at the workplace: 1314-13-2 Zinc oxide (100.0%) PEL (USA) Long-term value: 15* 5** mg/m 3 : *total dust **respirable fraction and fume REL (USA) Short-term value: 10** mg/m 3 Long-term value: 5* 5** mg/m 3Ceiling limit value: 15* mg/m 3 *dust only **fume TLV (USA) Short-term value: 10* mg/m 3 Long-term value: 2* mg/m 3 *as respirable fraction EL (Canada) Short-term value: 10 mg/m 3 Long-term value: 2 mg/m 3 EV (Canada) Short-term value: 10 mg/m 3 Long-term value: 2 mg/m

				÷.,			÷.,			1
respirable										
Additional information	ו:			. '	:		. '	:		
No data										
Exposure controls							11.			· · .
Personal protective e	quipment	1							$\mathcal{A}^{(1)}$	1
Follow typical protect	ive and h	ygienic pra	actices f	for han	dling chen	nicals.				
Keep away from food	lstuffs, be	verages a	nd feed	-				i		
Remove all soiled an	d contami	nated clot	hing im	mediat	ely.					
Wash hands before b	oreaks and	d at the en	d of wo	ork.	1		1	t		,
Maintain an ergonom	ically app	ropriate w	orking e	environ	ment.					1
Breathing equipment		:								
Use suitable respirate										
Recommended filter	device for	short tern	n use:				•••		; • •	· · .
Use a respirator with	type N95	(USA) or I	PE (EN	143) c	artridges a	as a bao	ckup to	engineeri	ng cont	rols.
			`	,	0		-	0	•	
Risk assessment sho	ould be pe	rformed to			1					÷.,
			determ	nine if a	ir-purifying	g respir	ators a	e appropr	iate. Or	÷.,
Risk assessment sho			determ	nine if a	ir-purifying	g respir	ators a	e appropr	iate. Or	÷.,
Risk assessment sho use equipment tested	and app	roved und	o determ er appro	nine if a opriate	ir-purifying governme	g respir	ators ai dards.	e appropr	iate. Or	nly
Risk assessment sho use equipment tested Protection of hands:	and app	roved und	o determ er appro	nine if a opriate	ir-purifying governme	g respir	ators ai dards.	e appropr	iate. Or	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves	l and app o use.	roved und	o determ er appro	nine if a opriate	air-purifying governme	g respir	ators ai dards.	e appropr	iate. Or	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t	l and app o use. hould be	roved und determine	o determ er appro	nine if a opriate oy mate	air-purifying governme	g respir ent stand uality, tl	ators ai dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s	l and app o use. hould be	roved und determine	o determ er appro	nine if a opriate oy mate	air-purifying governme	g respir ent stand uality, tl	ators ai dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by	l and app o use. hould be	roved und	determ er appro	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves	l and app o use. hould be	roved und	determ er appro	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of g	l and app o use. hould be	roved und determined	o determ er appro d both k	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves Nitrile rubber, NBR	l and app o use. hould be	roved und determined	o determ er appro d both k	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of g No data available Eye protection:	l and app o use. hould be	roved und	o determ er appro d both k	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of g No data available	l and app o use. hould be	roved und	o determ er appro d both k	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly
Risk assessment sho use equipment tested Protection of hands: Impervious gloves Inspect gloves prior t Suitability of gloves s by manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of g No data available Eye protection: Safety glasses	l and app o use. hould be	roved und	o determ er appro d both k	nine if a opriate	air-purifying governme	g respir ent stand uality, tl	ators an dards. ne latte	re appropr	iate. Or may va	nly

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES Information on basic physical and chemical properties Appearance: Form: Powder or solid in various forms Color: White Odor: Odorless Odor threshold: No data available. pH: N/A Melting point/Melting range: 1,975° C (3,587° F) (dec.) Boiling point/Boiling range: No data availableSublimation temperature / start: No data available Flammability (solid, gas)

No data available	е.											
Ignition temperat	ture: No	o data a		. '	' ,	;	. '	۰.		. '	1.	
Decomposition to	empera	ture: N	o data ava	ailable								:
Autoignition: No	data av	ailable										
Danger of explos	sion: No	o data a	available.		· · · .		111	· · .		111	11	÷.,
Explosion limits:			1			1			1		: .	
Lower: No data a Upper: No data a			1						:			;
Vapor pressure: Density at 20 °C		: 5.606	g/cm		· · .			· · .	Ч. М.		· · .	÷.,
3		1			1			1	6			
(46.782 lbs/gal) Relative density			:"			1			:			:
No data available Vapor density	e.	•••		111			111	· · .		111	··.	÷.,
N/A									`: `:			

			,		· .						
Evaporation rate								1		÷.,	
N/A Solubility in Water (F	1	e l'						e'			
2	I										
—	· · · .	14. 1		· · .			· · .	14	111	11.	14. 14.
Partition coefficient (n-octano	l/water):	No data	availab	le.			1		÷.,	
Viscosity: Dynamic: N/A		a' i			:			ť			:
Kinematic: N/A											
	· · .	1. 1.	; • •	· · .	14	1.1.1	· · .	14	111	11	14
Other information	:	۰.		:	· .	. '		· .			· .
No data available	,	,	,		,	,					
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SECTION 10. STABILITY AND REACTIVITY

Reactivity	1	1.		1			1			1	
No data available	· .		, '	· .		. '	· .	:	. '		
Chemical stability					:			:			:
Stable under recommer	nded sto	orage con	ditions								
Thermal decomposition	/ condi	tions to b	e avoid	ed:			Ч.,	1. 1.	:**	· · .	۰.
Decomposition will not a	occur if	used and	stored	accord	ling to spe	ecificatio	ons.				
Possibility of hazardous	reactio	ons									
Reacts with strong oxid	izing ag	jents			:				111		:
Conditions to avoid											
No data available									1.1.1	· · .	
Incompatible materials:	1						1	1			
Oxidizing agents				. '							
Hazardous decompositi	on proc				i			;			
Metal oxide fume			1 1 1 1	· · ·		1 1 1 1	· · .		1 1 1 1	···.	
	1						1			1	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains acute toxicity data for this substance.

LD/LC50 values that are relevant for classification:

No dataSkin irritation or corrosion:

May cause irritation

Eye irritation or corrosion:

May cause irritation

Sensitization:

No sensitizing effects known.

Germ cell mutagenicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Carcinogenicity:

EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of carcinogenicity or no data are available.

EPA-I: Data are inadequate for an assessment of human carcinogenic potential.

EPA-II: Inadequate information to access carcinogenic potential.

Reproductive toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains reproductive data for this substance.

Specific target organ system toxicity - repeated exposure: No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

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					·					
Aquatic toxicity:										
No data available	1		, ' [']	1,			1.			1
Persistence and degrad	ability									
No data available										
Bioaccumulative potenti	al				1. 1.	1 1 1 1	· · ·		: • •	· · .
No data available Mobility in soil	4	1) 1)		1	1 1		: .	`:		÷.
No data available								:		
Ecotoxical effects:										
Remark:	· · ·		1.1.1	· · .	1.	1.1.1	· · .		: • •	1. 1.
Very toxic for aquatic or	ganism	S		:			1			1
Additional ecological inf	ormatio	on:								
Do not allow product to	reach g	proundwate	er, wate	er cours	ses, or sev	vage sy	/stems.			
Do not allow material to	be rele	eased to th	e envir	onmen	t without o	official p	ermits.			
Danger to drinking wate	r if eve	n small qu	antities	leak in	ito the gro	und.	11.			· · .
Also poisonous for fish a	and pla	nkton in w	ater bo	dies.			1			÷.
May cause long lasting	harmful	l effects to	aquatio	c life.						
Avoid transfer into the e	nvironn						.'	1		
Very toxic for aquatic or	ganism	S								
Results of PBT and vPv	B asse	ssment			· .		· · .		1	· · .
PBT:N/A				1						1.

vPvB:	1				1					1	
N/A											
Other adverse effects		:	. * *		1						:
No data available	· · .	1.		· · ·	· .	1 1	· · .	· .			· .
SECTION 13. [1.	': ':		÷.,	
	_		_	_				1			
Waste treatment metho											
Recommendation	· · .	1.	: • •	· · .	1. 1.		· · .	1. 1.			
Consult official regulati	ons to	ensure pi	roper dis	sposal.							
Uncleaned packagings							1			1	
Recommendation:		e la compañía de la c			e la compañía de la c			: ¹		1	:
Disposal must be made	e accor	ding to o	fficial re	gulatior	ıs.						
						1			,	11	۰.
SECTION 14.		JSUK	ECO	NIR	0Ľ5/	PER5	UNA				
PROTECTION		ť	. **		ť			÷			;
UN-Number											
UN-Number DOT, IMDG, IATA	۰۰,	14. 14.	:	۰۰,	14. 1	: · ·	···.	14. 14.	:	···.	1.
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na	me										
UN-Number DOT, IMDG, IATA UN3077	me										
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT	me	Ibstances			Zinc ovid	 					
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT	me	Ibstances			Zinc ovid	 					
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazar	me dous su	ubstances	s, solid,	n.o.s. (Zinc oxid						
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazard IMDG ENVIRONMENTALLY	me dous su HAZAF	ubstances RDOUS S	s, solid, SUBSTA	n.o.s. (/ NCE, S	Zinc oxid SOLID, N	de) 1.O.S. (Zi	nc oxid	e),MARI	 NE		
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazard IMDG ENVIRONMENTALLY	me dous su HAZAF	ubstances RDOUS S	s, solid, SUBSTA	n.o.s. (/ NCE, S	Zinc oxid SOLID, N		nc oxid	e),MARI	 NE		
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazar IMDG ENVIRONMENTALLY POLLUTANT IATA	me dous su HAZAF	ubstances RDOUS S	s, solid, SUBSTA	n.o.s. (/ NCE, S	Zinc oxid SOLID, N	de) 1.O.S. (Zi	nc oxid	e),MARI	NE		
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazard IMDG ENVIRONMENTALLY POLLUTANT IATA ENVIRONMENTALLY Transport hazard class	me dous su HAZAF HAZAF	ubstances RDOUS S	s, solid, SUBSTA	n.o.s. (A NCE, S	Zinc oxid SOLID, N SOLID, N	de) 1.O.S. (Zi 1.O.S. (Zi	nc oxid nc oxid	e),MARI e)	 NE 		
UN-Number DOT, IMDG, IATA UN3077 UN proper shipping na DOT Environmentally hazard IMDG ENVIRONMENTALLY POLLUTANT IATA ENVIRONMENTALLY	me dous su HAZAF HAZAF	ubstances RDOUS S	s, solid, SUBSTA	n.o.s. (A NCE, S	Zinc oxid SOLID, N SOLID, N	de) 1.O.S. (Zi 1.O.S. (Zi	nc oxid nc oxid	e),MARI e)	 NE 		

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Class		÷.,										
9 Miscellaneous												
Label					. '							
9												
Class		· · · .	`.					· · ·			11.	÷.
9 (M7) Miscellane	eous da	angerou	us¦substar	nces an	nd articl	es		1	`: 			1
Label 9			i'					al a	a' la		al a	;
Packing group			۰.			1.	; * *		· .	:		· .
DOT, IMDG, IAT		ï	,		,	ı		ı	1			
III [:]		1.	1					1	1			1
Environmental ha	azards:	Marine	pollutant	(IMDG): Yes ((P)						
Symbol (fish and	tree)											
Special marking	(ADR):	· · .	1. 1.		· · .		1 1 1 1	· · .		: • •	· · .	÷.,
Symbol (fish and	tree)											
Special marking	(IATA):				۰,		. '	· .	:		1.	
Symbol (fish and	tree)		1			:						;
Special precaution	ons for	user										
Warning: Miscella	aneous	dange	rous subs	tances	and ar	ticles	; • •	· · .		:**	· · .	÷.,
EMS Number: F-	A,S-F				:			1			1	
Transport in bulk			Annex II o	f MARF	POL73/	78 and the	e IBC C	odeN/A	A			
Transport/Additio	onal info	ormatio	n: DOT		. '	1	. 11					1
Marine Pollutant												
Remarks:		· · · .	14. 1					· · .				÷.,
Special marking	with the	e symbo	ol (fish an	d tree).				1				1
UN "Model Regu	lation":											,
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SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) 1314-13-2 Zinc oxide California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. **REACH - Pre-registered substances** Substance is listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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