

SAFETY DATA SHEET

		111			1 1 1 1			: * *	Date	Accesse	d: 25/08	3/2023
.:	н н н		.1	1 - 1 1	· · ·		н н н		Dat	e Revise	d: 29/11	/2022
		· · ·			1 I			1 - 1 1				
SEC	CTION	1. ID	ENT	IFICA	TION							
	uct Name							: • •				
					1 I				.:			.:
										opment		
	lier detai				lance. S		ic lesea		ueven	phient		
			aterials									
E-ma	il: sales@)samate	rials.co	m								
Tel: (949) 407-	8904	.:						.1			.:
Addre	ess: 2366											
			11					1			1	
-	CTION											
Class	ification a	accordin	g to Re	gulation (EC) No 1	1272/2	800					
GHS			J	9	· · · · ·							
Acute	e Tox. 4 H	302 Hai	rmful if :	swallowe	d.							
	e Tox. 4 H						1					
	Sens. 1 H				gic skin re	eactior	ז. '					, i
	ification a							999/45/8	EC			
	larmful				,		ı					
R20/2	22: Harmf	ul by inf	nalation	and if sw	/allowed.			:**				
	ensitizing	-										
												:

1 - 1						1 1						
R43: May cause	sensitiza	ation by	/ skin cor	itact.	.:			.:			.:	
Information conc	erning pa	articula	r hazards	s for hu	man an	d environ	ment:					
N/A		1		1	1		1			1		. '
Hazards not othe												
No data available	Э											
Label elements	· · ·		н н н	· ·		1 I			1 I			
Labelling accord	ing to Re	gulatic	on (EC) N	o 1272	/2008	. '						
The substance is	s classifie	ed and	labeled a							1		
Hazard pictograr	msGHS0	7										
Signal word: Wa	-											
Hazard statemer	nts				.1	н н н						
H302+H332 Har	mful if sw	vallowe	d or if inh	naled.								. '
H317 May cause												
Precautionary st	atements	5		; • •			; • •			; • •		,
P261 Avoid brea	thing due	st/fume	/gas/mist	/vapor	s/spray.							
P280 Wear prote	ective glo	ves/pr	otective c	lothing	/eye pro	otection/fa	ice prot	ection.		i.	.'	
P304+P340 IF IN	NHALED:	Remo	ovė perso	n to fre	sh air a	nd keep c	omforta	able for	breathing			. '
P301+P312 IF S	WALLOV	NED: (Call a PO	ISON C	ENTER	R/doctor/	./if you	feel un	well.			
P312 Call a POI	SÓN CEI	NTER/	doctor//	if you f	eel unw	ell.	: * *			: • •		
P501 Dispose of	contents	s/conta	iner in ac	cordan	ce with	local/regi	oṇạl/na	tional/ir	nternationa	al, ,		,
regulations.						,	,					
WHMIS classific	ation				, , ,							. '
D2B - Toxic mate	erial caus	sing otl	ner toxic e	effects								
Classification sys	stem		1 1 - 1			1			1 1 1			
HMIS ratings (sc	ale 0-4)		н н Н		.:	1 I		.:	1 I			
(Hazardous Mate	erials Ide	ntificat	ion Syste	m)								
HEALTH	,		. '			. '				i.		. '
FIRE												
REACTIVITY			1 I	ı		1 1						
2	н н н	1	н н н	· · ·		1 I			н н н			

0					.1			.1			.:	
ı Health (acute e	effects) =	= 2			, , ,							
Flammability = Physical Hazar			и 1 — 1									
Other hazards		.1	н н н			н н н	· · ·		н н н		.1	
Results of PBT PBT: N/A	and vP	'vB asso	essment		, , ,		• •	, , ,		· · ·		
vPvB: N/A				;**		н н н						
											:	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS No. / Substance Name:	н 1 н	: ' '	 	111		111	
1308-38-9 Chromium(III) oxide Identification number(s):		1 - 1 1	1 1 1	1 I		1 I	.1
EC number: 215-160-9							

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 several minutes under running water. Consult a physician. If swallowed:

Seek medical treatment.

Information for doctor			.:						
Most important symptom	as and offects	both ac	uto and	dolovod	1				
No data available									
Indication of any immedi	iate medical a	attention a	and spe	cial trea	tment ne	eded			
No data available		111		1 1	1.1		н н н		
SECTION 5. FIF	REFIGHT	ING N	IEAS	SURE	S	1 1			1
Extinguishing media									
Suitable extinguishing a		,		1 1			1 1		
Product is not flammable	e. Use fire-fig	hting mea	asures t	hat suit t	the surro	unding	fire.		
Special hazards arising	from the subs	stance or	mixture)			. 1		
If this product is involved									
Metal oxide fume									
Advice for firefighters									
Protective equipment:									
Wear self-contained res	pirator.	· · ·							
Wear fully protective imp	pervious suit.								
<u> </u>		1.1			111				
SECTION 6. AC	CIDENT	AL RE	ELEA	SE M	IEASU	JRES	5		
Personal precautions, pr	rotective equi	pment ar	nd emer	gency pi	rocedure	S			
Use personal protective	equipment. K	Keep unpi	rotectec	l persons	s away.				
								111	
Environmental precautio									
Do not allow product to e									
Do not allow material to				,					
Methods and materials f	-	-							
Dispose of contaminated				to sectio	on 13		н 1 - 1	111	
Ensure adequate ventila						.1			.:
LISUIE aucquate verillia									

Prevention of secondary haza	ırds:	· ·	. 1	1 I	1 I 1	.1	1 - 1 1	 .1	
No special measures required									
Reference to other sections			1		1 1			 	.'
See Section 7 for information		0							
See Section 8 for information	on persona	al prote	ction e	quipment.				 	
See Section 13 for disposal in	formation.		.:	н н н			1 - 1 1	 ,÷	

SECTION 7. HANDLING AND STORAGE

and the second	1 1								
Handling									
Precautions for safe handlin	ng			1 - 1 1			н н Н		.:
Keep container tightly seale	d.					1			
Store in cool, dry place in tig	ghtly closed	contain	ers.						
Ensure good ventilation at the	he workplac	ce. ; · ·			111				
Information about protection	n against ex	plosions	s and fi	res:The p					
Conditions for safe storage,	including a	iny incor	npatibi	lities		.'			. '
Requirements to be met by	storerooms	and rec	ceptacle	es:	1 - 1 1	1			
No special requirements.									
Information about storage in	n one comm	non stora	age fac	ility:	111			111	
Store away from oxidizing a	gents.					. :			.:
Further information about st	orage cond	litions:							
Keep container tightly seale	d.		, , ,		1 - 1 1				
Store in cool, dry conditions	in well-sea	led cont	ainers.						
Specific end use(s)	1 1 - 1	111		н 1 — 1	111			111	
No data available	1 - 1 1			1 - 1 1			1 - 1 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: 1308-38-9 Chromium(III) oxide (100.0%) PEL (USA) Long-term value: 0.5 mg/m 3 as Cr REL (USA) Long-term value: 0.5 mg/m 3 as Cr; See Pocket Guide App. C TLV (USA) Long-term value: 0.5 mg/m 3 as Cr EL (Canada) Long-term value: 0.5 mg/m 3 as Cr Additional information: No data Exposure controls Personal protective equipment Follow typical protective and hygienic practices for handling chemicals. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls.

Risk assessment sh	nould be pe	erformed to	deterr	nine if	air-purifyiı	ng resp	irators a	are approp	oriate. C	Dnly
use equipment teste				-	-					
Protection of hands	• • •			1						
Impervious gloves										
Inspect gloves prior	to use.									
Suitability of gloves by	should be	determined	d both	by⊧mat	erial and o	quality,	the latt	er of whicl	n may v	vary
manufacturer.	· · ·					1 - 1 1				
Penetration time of	glove mate	,	,							
Eye protection: Safe	ety glasses	1 1 1			н 1 — 1	: • •				
Body protection: Pro	ptective wo	ork;clothing	•	.:			.1		· · ·	.:
	· · ·		1 I							
SECTION 9.	PHYSI	CAL AI	ND (CHEI		PRC	OPEF	RTIES		
Information on basic								н 1 — 1		
Form: Various form							.1			.:
Color: Pale to dark	green		1 I							

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 2435 °C (4415 °F) Boiling point/Boiling range: 3000 °C (5432 °F) Sublimation temperature / start: No data available Flammability (solid, gas): No data available. Ignition temperature: No data available Decomposition temperature: No data available Autoignition: No data available. Danger of explosion: No data available.

Explosion limits:

Lower: No data available

		1 1 1								
Upper: No data available	e		.:							
Vapor pressure at 20 °C		l								
Density at 20 °C (68 °F)	: 5.22 g/cm									
3 (43.561 lbs/gal)					111			111		
Relative density: No dat	a available.		.1	н н н						
Vapor density: N/A										
Evaporation rate: N/A		1	1 1		1		. *			. '
Solubility in Water (H								:		
O): Insoluble				н н н	· · ·					
Partition coefficient (n-o	ctanol/water): N	lo data	availab	le.		,	. *			
Viscosity:		,	1 1	,	,			,		
Dynamic: N/A		; • •			111			:**		
Kinematic: N/A										
Other information										
No data available					1 - 1 1					
and the second sec										
SECTION 10. S								• •	.:	
Reactivity										
No data available			1							
Chemical stability										
Stable under recommen	ided storage co	onditions	s							
Thermal decomposition	/ conditions to	be avoid	ded:			.:	н н н			
Decomposition will not c	occur if used ar	d stored	d accor	ding to s	pecificati	ions.				
Possibility of hazardous	reactions		1 1	. '		1 1				
Reacts with strong oxidi	zing agents				: · ·					
Conditions to avoid										
No data available				1 - 1 1	1 - 1 1					

		1 - 1	1			1				
Incompatible mat	erials:			. 1			.1			
Oxidizing agents										
Hazardous decor	nposition pro	oducts:								
Metal oxide fume										
					1					
								н н н		.:
SECTION 1										
Information on to:			,							
Acute toxicity:Ha	rmful if inhal	ed.								
Harmful if swallow										
The Registry of T	oxic Effects	of Chemi	cal Subs	tances	(RTECS	6) contaii	ns acut	e toxicity	data for	this
substance.			1 I 1						• •	
LD/LC50 values t										
Skin irritation or c	orrosion: Ma	ay cause	irritation		1 1 1	: • •				
Eye irritation or co	orrosion: Ma	ay cause i	rritation							
Sensitization: Ma	y cause an a	allergic sk	in reaction	on.			. '			. '
Germ cell mutage	enicity:			, , ,						
The Registry of T	oxic Effects	of Chemi	cal Subs	tances	(RTECS	6) contaii	ns muta	ation data	a for this	
substance.	111 - LL	н 1 - 1	: • •		1 1 - 1			1 1 - 1		
Carcinogenicity:										
EPA-D: Not class			arcinoge	nicity:	inadequa	ite huma	n and a	animal ev	vidence o	of
carcinogenicity or	r no data are	e available	Э.	, , ,						
EPA-CBD: Cargir	nogenic pote	ential canr	not be de	etermin	ed.					
IARC-3: Not class	sifiable as tc	o carcinog	enicity to	o huma	ins.					
ACGIH A4: Not c in										
terms of its carcir	nogenicity in	humans	and/or a	nimals					· · ·	
The Registry of T										
carcinogenic and	/or neoplast	ic data for	this sub	stance	· · ·	111			111	

Specific target o	rgan s	ystem t	oxicity - r	epeated	l expos	ure: No e	effects kr	nown.			
Specific target o	•	-		ingle ex	posure	e: No effe	ects know	/n.			
Aspiration hazar											
Subacute to chr											
The Registry of	Toxic E	Effects	of Chemi	cal Subs	stances	(RTECS	S) contair	ns mult	iple dose	e toxicity o	lata
for		.1	н н н			н н н			н н н		
this substance.											
Additional toxico											

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

SECTION 12. ECOLOGIC					.1	1 - 1 1
Toxicity						
Aquatic toxicity:	;••			1.11		
No data available						
No data available Bioaccumulative potential				1 1		
No data available Mobility in soil						
No data available			1			
Additional ecological information:						$\mathcal{A}^{(1)}$
Avoid transfer into the environment.						
Results of PBT and vPvB assessment	; • •			1.1.1		
PBT: N/A vPvB: N/A		. 1	1 - 1 1	1 I 1		1 - 1 1
Other adverse effects						

No data available

methods		1							
Recommendation									
Consult official regulations									
Uncleaned packagings: Recommendation:	н н н					.1	 		÷
Disposal must be made acc	cording to c	official re	gulatior	าร.	· · ·		· · ·		. '
····	, , ,	:			:		 		
SECTION 14. TRA	ANSPO		IFOR	RMAT	ION	.:		.1	
UN-Number DOT, ADN, IMDG, IATA				al a					
N/A UN proper shipping name		;···		. :	;···				
DOT, ADN, IMDG, IATA	1 - 1 1				1 - 1 1		 		
N/A Transport hazard class(es)									.*
DOT, ADR, ADN, IMDG, IA	TA	: • •			: **		 :**		
Class N/A									
Packing group					1 - 1 1				. '
DOT, IMDG, IATA									
N/A		1 1 1 1			1.1.1				
Environmental hazards: N/A									
Special precautions for use N/A	r ^{, '}						· · ·		. '
Transport in bulk according	to Annex I	I of MAR	RPOL73	8/78 and	the IBC	Code	 :**		
N/A									

							1.1.1	
Transport/Additional information:		.1			.1			.1
	· · ·			1 I 1			н н н	
No								
SECTION 15. REGULAT								
Safety, health and environmental regu							ixturo	
	liations/le	gisialit	on speci		SUDSIA		lixture	
National regulations							;** E : -	
All components of this product are list				ental Pro	tection	Agency		.:
Substances Control Act Chemical sub			-					
All components of this product are list			dian Don	nestic Su	bstanc	es List (E	OSL).	
SARA Section 313 (specific toxic cher	nical listi	ngs)						
1308-38-9 Chromium(III) oxide	1.1.1		, , ,					
California Proposition 65		.:						
Prop 65 - Chemicals known to cause (
Substance is not listed.				1				
Prop 65 - Developmental toxicity								
Substance is not listed.	; * *		, , ,			1 1 1		
Prop 65 - Developmental toxicity, fem	ale , ,	.:						
Substance is not listed.								
Prop 65 - Developmental toxicity, mal	9		. '					
Substance is not listed.Information ab	out limita	tion of						
For use only by technically qualified in	dividuals	· · ·						
Other regulations, limitations and proh	ibitive re	gulatio	ns		.1			. :
Substance of Very High Concern (SVI	HC) acco	ording to	o the RE	ACH Re	gulatior	ns (EC) N	lo. 1907/	2006
Substance is not listed.	1	1						
The conditions of restrictions accordin	g to Artic	le 67 a	ind Anne	x XVII of	the Re	gulation	(EC) No	
1907/2006 (REACH) for the manufact	uring, pla	acing o	n the ma	rket and	use mu	ist be ob	served.	
Substance is not listed.	1 - 1 1	.:						.1

Annex XIV of the REACH Regulations (requiring Authorisation for use)												
Substance is not listed.												
REACH - Pre-registered substances	1 I											
Substance is listed. Chemical safety assessment:							: · ·					
A Chemical Safety Assessment has no	1 I 1		а — а А		.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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		1			1							