

# SAFETY DATA SHEET

:	11.	1.1.1					· · · .		Date	Accesse	d: 25/08	/2023
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	1.	1		1997 - S. 1997 -	н. Поло		1. 	н 1 ст.		1 Constanting	1. 	.:
SE	CTION	1. ID	ENT		TION							
	uct Name					1	11		ť	11	; * *	1
	#: 10294-		-				.:					
	vant iden											
			565 01 1	ne subsi	ance. c		lic lesea		ueven	opment	1	
	olier detai ord Advar		aterials									
	il: sales@			1								1
Tel: (	949) 407-	8904	· · ·	.:			.:					
	ess: 2366									1. 1.		
_	CTION			_			_			··.		
	Classifica				29 CFR	1910 (	OSHA H	CS)			1	.1
	zing solid											
Acute	e toxicity,	Oral (Ca	ategory 4	4), H302			· · .		:		: * *	:
Acute	e toxicity, l	Inhalatic	on (Cate	gory 4), I								
Carci	nogenicity	/ (Categ	jorý 1B)	, H350		1	. '					
GHS	Label ele	ments, i	ncluding	g precaut	ionary s	stateme	ents		.1		·	.1
Picto	gram											
Signa	al word Da	anger		с. Т.	; • •				e l'	11. 1	: • •	ť
Haza	rd statem	ent(s)										
							. 1					

		1 1 1	1	· · · · ·						
H272 May intensi	fy fire; oxidizer.	. :		.:	. :			. :		.:
H302 + H332 Har	mful if swallowed		l.							
H350 May cause	cancer.	·			1			1	. :	
Precautionary sta	tement(s)									
P201 Obtain spec	cial instructions be	efore use.		· · ·		1			:	· · ·
P202 Do not hand	dle until all safety	precautions	have b	been read	andund	erstoo	d. ,			.1
P210 Keep away	from heat.	·				1	1.			
P220 Keep/Store	away from clothir	ng/ combusti	ble ma	terials.					. '	
P221 Take any pr	recaution to avoid	mixing with	combu	ustibles.						
P261 Avoid breat	hing dust/ fume/ g	gas/ mist/ va	pours/	spray.		1	1		,	
P264 Wash skin t	horoughly after h	andling.			н 1 - 1	1				. :
P270 Do not eat,	drink or smoke w	hen using th	is prod	luct.	1		1.	1		٠.,
P271 Use only ou	tdoors or in a wel	ll-ventilated	area.							
P280 Wear protect	ctive gloves/ prote	ective clothin	ig/ eye	protection	n/ face		· · .		:	
protection.										
P301 + P312 + P3	330 IF SWALLOV	VED: Call a	POISO	N CENTE	R/docto	or if you	ı feel			
unwell. Rinse mo	uth.	·			1			1	.1	÷.,
P304 + P340 + P3	312 IF INHALED:	Remove pe	rson to	fresh air a	and kee	p comf	ortable			
for breathing. Call	a POISÓN CEN	TER/doctor i	if you f	eel unwell		i.		111	:	···,
P308 + P313 IF e	xposed or concer	ned: Get me	edical a	advice/ atte	ention.	1 1	.:			:
P370 + P378 In c					hol-resis	stant				
foam to extinguish	۰. ٦.	1		14. 14.	1			1	.1	÷.,
P405 Store locked	•									
P501 Dispose of o	contents/ containe	er to an appr	roved v	vaste disp	osal	;		111	1	•••,
plant.						1 I	.1			.:
Hazards not other	wise classified (H	INOC) or no	t cover	ed by GH						
				1	1.1		14	1.0	1	

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

							11			
CAS No. / Substance Na	ame:									
10294-40-3 Barium chro	mate									
Identification number(s):		1 			<b>'</b>			1.1		۰.
EC number: 233-660-5										
at the second second second					111	i.		111	:	
		,								
<b>SECTION 4. FIF</b>										
Description of first aid m					1 	.1		1		÷.
If inhaled:		;		· · .		l.			e.	
Supply patient with fresh	n air. If not l				•		•			
Seek immediate medica	l advice.									
In case of skin contact:		÷	.1		·		1. 1.	1		۰.
Immediately wash with s	oap and w	ater; rinse	thoroug	hly.						
Seek immediate medica	l advice.	;··	: '		, , , , ,					
In case of eye contact:										
Rinse opened eye for se		tes under r							1	
If swallowed:		1			1 			1	.1	· · .
Seek medical treatment.										
Information for doctor		; • •	: '			:		: * *	ľ	
Most important symptom	ns and effe	cts, both ac	cute and	d delayed:						
No data available										
Indication of any immedi	iate medica	I attention	and spe	ecial treatn	nent ne	eded:	14	1.1		
No data available										
		111				:	· · .	111	1	

# **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

For safety reasons unsuitable extinguishing agents Halocarbon extinguisher

Special hazards arising from the substance or mixture

This substance is an oxidizer and its heat of reaction with reducing agents or combustibles may cause

ignition.

If this product is involved in a fire, the following can be released:

Toxic metal oxide fume

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

#### **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures														
Use personal protective equipment. Kee	p unpro	tected	persons a	way.		,		,						
Ensure adequate ventilation														
Environmental precautions: Do not allow product to enter drains, sewage systems, or other water														
courses.														
Methods and materials for containment and cleanup:														
Dispose of contaminated material as was		-												
Ensure adequate ventilation.														
Prevention of secondary hazards:														
Acts as an oxidizing agent on organic ma	aterials	such a	s wood, p	aper an	d fats									
Keep away from combustible material.	: • •		· · .	: • •		· · .	: • •	:						
Reference to other sections			:											
See Section 7 for information on safe ha		,	1			,								
See Section 8 for information on persona	al prote	ction ec	quipment.	1			1	.1						
See Section 13 for disposal information.														
and the second								:						
See Section 7 for information on safe ha See Section 8 for information on persona	ndling		,											

			'			
SECTION 7. HANDLING AND STORAGE		н н н	.1			
Handling	·		1. 1.	1		
Precautions for safe handling						
Keep container tightly sealed.		:		: • •	e la	
Store in cool, dry place in tightly closed containers.	ı		:			
Ensure good ventilation at the workplace.						
Open and handle container with care.	1 			1.1		
Information about protection against explosions and fires:						
Substance/product can reduce the ignition temperature of flamma	able su	ubstanc	es.	111	1	,
This substance is an oxidizer and its heat of reaction with reducir cause	ng age	nts or c	ombustib	les may	· · ·	
ignition.	1		14. 14.	1.1		
Conditions for safe storage, including any incompatibilities						
Requirements to be met by storerooms and receptacles: No spec	cial req	luireme	nts.	: • •	t.	
Information about storage in one common storage facility:			.1			
Store away from flammable substances.						
Store away from reducing agents.				1.1		
Do not store with organic materials.Store away from metal powde						
Do not store together with acids.	1 1 1			111		
Further information about storage conditions:	1					
Keep container tightly sealed.	ı					
Store in cool, dry conditions in well-sealed containers.			1.		. '	
Specific end use(s) No data available	:		··	;••	t.	

# 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

al de la companya de				1					· · .
face velocity of at least 100 feet per minu	ute.		.:			.1			.:
Control parameters									
Components with limit values that require	e monit	oring a	at the wo	rkplace:			1		
10294-40-3 Barium chromate (100.0%)									
PEL (USA) Long-term value: 0.005* mg/i	m		· · · .			· · .			
3									. 1
Ceiling limit value: 0.1** mg/m 3	<b>`</b>	, i	· . · .		.1	1.	·		÷.,
*as Cr(VI) **as CrO3; see 29 CFR 1910.	1026						111		
REL (USA) Long-term value: 0.001 mg/n				,	:	· · .	,	1	
3	1 1 1				1 - 1 1				
as Cr; See Pocket Guide Apps. A and C	·	.:	1. j	·	.:	·	·	.:	· .
TLV (USA) Long-term value: 0.01 mg/m									
<b>3</b>			· · .	111	:		111	:	
as Cr									
EL (Canada) Short-term value: C0.1 mg/									
<b>3</b> . <sup>1</sup> . <sup>1</sup> . <sup>1</sup> . <sup>1</sup> .				1 	.1	14	1	.:	÷.,
Long-term value: 0.025 mg/m									
<b>3</b> :	1 1 1 1			111	i.	· · .	: • •		
as Cr; ACIGH A1, IARC 1	ī		:		1 1				
Ingredients with biological limit values:		,	,		ı				
10294-40-3 Barium chromate (100.0%)	т. Тал			1		14	1		
BEI (USA) 25 μg/L									
Medium: urine			· · · .			· · · .			•••
Time: end of shift at end of workweek	1		.:						.:
Parameter: Total chromium (fume)	1						5		
10 μg/L		. '	۰.		. '	· ,		. '	
Medium: urine							111		
Time: increase during shift	,		· · · .	,	1	· · ·		1	
Parameter: Total chromium (fume)	1 1 1							н н н	.1
		ı	1	1					

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.

Store protective clothing separately.

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 should be performed to determine if airpurifying

respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands:

Impervious glovesInspect gloves prior to use.

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary

from manufacturer to manufacturer.

Material of gloves Polyvinyl chloride (PVC)

Penetration time of glove material (in minutes) No data available

Eye protection: Safety glasses

Body protection: Protective work clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Powder

		1 1 1		· · · ·	1 1 1			1 1 1		
Color: Yellow	.:		1 I	.:		1 1				.:
Odor: Odorless										
Odor threshold: No data availab	ole.	·			·			1		
pH: N/A										
Melting point/Melting range: No	data avai	lable					· · .			•••
Boiling point/Boiling range: No	data availa	able	1 - 1 1			1 I 1		. :		.:
Sublimation temperature / start	: No data a	availab	le	·	1	1			1	
Flammability (solid, gas) Conta	ct with cor	nbustik								
Ignition temperature: No data a	vailable					.,		· · ·		
Decomposition temperature: No	o data ava			1		1	1			
Autoignition: No data available.		1	1 I		н 1 — 1	1			1	.:
Danger of explosion: No data a	vailable.	·	. :		·			1		۰.
Explosion limits:										
Lower: No data available	· · · .			· · .		;	· · .	: • •		
Upper: No data available										
Vapor pressure: N/A						1				. :
Density at 20 °C (68 °F): 4.5 g/	cm	·	. :		1			1.1		1.
3										
(37.553 lbs/gal)	· · .	; • •	:			1		: • •	1	
Relative density No data availa	ble.		1 I	.:		1 1	:			:
Vapor density N/A			ı			ı				
Evaporation rate N/A			.1		1.1.1			1		1.
Solubility in / Miscibility with										
Water: Insoluble	11.		:			1	· · · .	: * *	1	
Partition coefficient (n-octanol/v	vater): No	data a	vailable	9.		1 1				.:
Viscosity:										
Dynamic: N/A			ì			i.		1. I.	i.	
Kinematic: N/A										
Other information No data avail										•••
<u></u>	;		1			1 1	;			.:

## SECTION 10. STABILITY AND REACTIVITY

Reactivity May intensify fire; oxidizer.	1			1			1		
Chemical stability Stable under recomm	nended	storage	e conditio	ns.					
Thermal decomposition / conditions to b	be avoid	led: De	ecomposi	tion <sup>s</sup> will i	not occ	ur if used	d and sto	ored	
according to specifications.						:			
Possibility of hazardous reactions									
Reacts with reducing agents	1		1.	1			1		
Reacts with flammable substances									
Conditions to avoid No data availableIn	compati	ible ma	aterials:		1	11			
Acids			.:		· · ·	.1			
Flammable substances							1		
Reducing agents		. '			. '			. '	
Organic materials					. '				
Metal powders					1			Ĩ	
Hazardous decomposition products: To	xic meta	al oxide	e fume				, , ,		
	1			1			1	. :	
SECTION 11. TOXICOLO			IFURI			··.,	111		
Information on toxicological effects									
Acute toxicity:									
Harmful if inhaled.	1			1			1	.1	
Harmful if swallowed.									
LD/LC50 values that are relevant for cla	assificat	ion	o data						
Skin irritation or corrosion: May cause in			Juala						
	rritation								
Eye irritation or corrosion: May cause ir	rritation	н н н			н н н			н н н	
Eye irritation or corrosion: May cause ir Sensitization: May cause an allergic ski	rritation ritation	н н н			н н н			н н н	
Eye irritation or corrosion: May cause ir	rritation ritation n reacti	on.							
Eye irritation or corrosion: May cause ir Sensitization: May cause an allergic ski	rritation ritation n reacti f Toxic E	on. Effects		ical Sub	stances	s (RTEC	S) contai	ns	
Eye irritation or corrosion: May cause ir Sensitization: May cause an allergic ski Germ cell mutagenicity: The Registry of	rritation ritation n reacti f Toxic E	on. Effects	of Chemi	ical Sub	stances	s (RTEC	5) contai	ns	•

May cause cancer.

IARC-1: Carcinogenic to humans: sufficient evidence of carcinogenicity.

ACGIH A1: Confirmed human carcinogen: Agent is carcinogenic to humans based on epidemiologic studies of, or convincing clinical evidence in, exposed humans.

NTP-K: Known to be carcinogenic: sufficient evidence from human studies.

(inhalation) EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a

causal association between exposure and cancer.

(inhalation) EPA-K: Known human carcinogens.

(oral) EPA-D: Not classifiable as to human carcinogenicity: inadequate human and animal evidence of

carcinogenicity or no data are available.

(oral) EPA-CBD: Carginogenic potential cannot be determined.

Reproductive toxicity: No effects known.

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: No effects known.

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: I	No data	availa	ble									
Persistence and					1		1					
Bioaccumulative	potentia	al No c	lata avai	lable			·			1		
Mobility in soil No	o data a	vailab	le									
Ecotoxical effects	S: <sup>; ; ; ;</sup>	:	· · · .	111		с. С.	1 1 1 1	:	· · · .	: * *	:	
Remark: Very to					1 I	.:		1 - 1 1	.1			

1				1				1			
Additional ecologi	cal informat	tion:	. :		.:				. :		
Do not allow prod smallquantities.	uct to reach	groundw	vater, wa	ter cou	rses, or	sewage s	system	s, even ir	٦		
Danger to drinking	g water if ev	ven extrer	nely sma	all quan	tities lea	ik into the	groun	d.			
Also poisonous fo	r fish and p	lankton in	water b	odies.	11. 1		1	· · .			
May cause long la	asting harmi	ful effects	to aqua	tic life.	:	. :	1 1	:			
Avoid transfer into	the enviro	nment.		1	,		ı				
Very toxic for aqu	atic organis	ms	1.1		14	1. 1.		14	1.0		
Results of PBT ar											
PBT: N/A				1	11 s	1 1 1		11		1	
vPvB: N/A	н н. 1. 1 1 1.										
Other adverse eff	ects No dat	a availabl	е			·	:		·		
		,						,			
SECTION 1 Waste treatment		POSAL									
Recommendation Uncleaned packa		icial regu	lations to	ensur	e proper	disposal	-	14. 14.	<b>'</b>	.:	۰.
Recommendation	: Disposal r	nust be m	ade acc	ording	to officia	l regulatio	ons.	··.	: **		
		.1	1 1 1	· · ·			н н н				
<b>SECTION 1</b>	<b>4. TRA</b>	NSPO	RT IN	FOR	MAT	ION		1.	1		
UN-Number											
DOT, IMDG, IATA	UN1479			. '							
UN proper shippir					· · · ·	:**	:	· · ·	1.1.1	1	
DOT ONICIZING SO		.1									
IMDG, IATA OXIE	ng name lid, n.o.s. (E	Barium ch	romate)					.:	. :	н н н	.:
IMDG, IATA OXIE Transport hazard	ng name lid, n.o.s. (E DIZING SOL class(es)	3arium ch .ID, N.O.S	romate) S. (Bariur	m chro	mate)		: * ;}				
IMDG, IATA OXIE Transport hazard	ng name lid, n.o.s. (E DIZING SOL	3arium ch .ID, N.O.S	romate) S. (Bariur	m chro	mate)		: * ;}				
IMDG, IATA OXIE Transport hazard	ng name lid, n.o.s. (E DIZING SOL class(es)	3arium ch .ID, N.O.S	romate) S. (Bariur	m chro	mate)						.:

: ···.	1		· · ·	,		· · .			11.			
Label 5.1						.1		н н 1	.1			
Class 5.1 (O2) C	Dxidizin	g subsi	ances									
Label 5.1	1 			<b>*</b>			1	. 1	14	1		
IMDG, IATA												
Class 5.1 Oxidis	ing sub	stance	S.		t.	· · · .	1.1	÷.	· · · .	111	1	
Label 5.1	, , ,	1 1		, , ,				1 I 1				.1
Packing group	·	1		·		· .	·		· .	·		
DOT, IMDG, IAT	A III				,							
Environmental h	azards:	N/A			. '							
Special precaution		user W	/arning: C	Dxidizin	g subst	ances						
EMS Number: F	-A,S-Q	н н н		1 1 1	н н 1	.1		н н 1				.1
Transport in bulk	caccord	ding to	Annex II	of MAR	POL73	8/78 and	the IBC	Code N	I/A	5	.1	÷.,
Transport/Addition	onal info	ormatio	on:									
DOT	; • •		· · .	: • •		· · .		:	· · .			
Marine Pollutant	(DOT):	No										
UN "Model Regu	lation":	UN14	79, Oxidi	zing sol	id, n.o.	s. (Bariu	m chrom	ate), 5.	1, III			
												۰.

#### **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components This material does not contain any components with a section 302 EHS TPQ. SARA 313 ComponentsThe following components are subject to reporting levels established by SARA Title III, Section 313: Barium chromate CAS-No. 10294-40-3 Revision Date 2007-03-01 SARA 311/312 Hazards Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

#### **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.