

SAFETY DATA SHEET

		1.1.1							Date	Accesse	d: 25/08	/2023
		···,	14		· · · ,	14			Dat	e Revise	d: 10/12	2022
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		-07-0										
			ses of t	he substa	nce: S	Scientif	ric resea	rch and	develo	opment	1	
• •	l ier deta i ord Advai		aterials	.)			;			;	· · ·	
E-mai	il: sales@)samate	rials.co	m		,	ı					
Tel: (949) 407-	8904	14		· · .	14		· · .	14.		11	÷.,
				_ake Fores				·		. *	5	
SEC		2. H	AZAI	RDS ID	ENT	IFIC	ΑΤΙΟ	N				
				RDS ID								
Class	ification o	of the su	bstance		9	1. 1.		· · .	14. 14.			
Class The s	ification o	of the su	bstance lassifie	e or mixture d according	9	1. 1.		· · .	14. 14.			
Class The s GHS	ification o	of the su is not c nents no	bstance lassifie ot applie	e or mixture d accordine cable	e g to the	e Globa	ally Harm	onized S	System	(GHS).		
Class The s GHS Hazai	ification o ubstance label eler	of the su is not c ments no ams not	bstance lassifie ot applic	e or mixture d accordine cable	e g to the	e Globa	ally Harm	onized S	System			
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P231 Handle under inert gas.

P222 Do not allow contact with air.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses,

			1		,							
if present	· · .	1. 1.		· · ·	1.		· · · .	1.		· · · .	1. 1.	
and easy to do.	Contin	ue rinsi	ing.									
P403+P233 Sto	ore in a	well-ve	ntilated p	lace. Ke	eep cor	ntainer tig	ghtly clos	sed.		1		
P422 Store con	tents u	nder ine	ert gas.									
P501 Dispose o	of conte	nts/con	ntainer in a	accorda	ince wit	th local/re	egional/r	national	/internati	onal		
regulations.	· · ,	1		· · .			11. 1	Ч.,		· · .		
Classification sy	/stem:											
NFPA ratings (s	cale 0								.'			. '
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0 Health = 3	· · .						11	1. 1.		· · · .	14	
Fire = 0	÷.,			1			1			·		
Reactivity = 0												
HMIS-ratings (s	cale 0 ·	- 4)	.:			.:			.:			
HEALTH FIRE	· · .	14		···,	14. 14.		··.	14. 14.				
REACTIVITY	1			1			1	1 1 1		1		
2												
0, , ,	111				1 1		: • •	1 I 1		111		.1
0 Health = 2	· · · .			···,	1. 1.		11. 1	14. 14.				
Fire = 0	1				1 1 1		1			5		
Reactivity = 0												
Other hazards					1	.:	111			111		
Results of PBT	and vP	vB ass	essment	· · .	1.		· · · .	1.		· · .	1.	
PBT: N/A vPvB: N/A	'	н 1 — 1		5	: 					1		
	1.1.1				1 - 1 1	. :			.:	111		.:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

				,							
Substances	1.		•••	· .		· · .	÷.,		· · .	1. 1.	
CAS # / Substance Na											
10049-05-5 chromium	dichlor	ide	·			`			1		. '
Identification number(s EC number: 233-163-3		.:		н н н	,÷		1 1 1	.:		1 - 1 1	

SECTION 4. FIRST AID MEASURES

Description of first aid measures							
General information: No special measures requi	red.						
If inhaled: Supply fresh air; consult doctor in cas	e of co	mplaints.	· · .	14. 1		· · · ·	11
In case of skin contact: Immediately rinse with w	ater.		1			·	
In case of eye contact: Rinse opened eye for se	veral m	inutes und	er runn	ning wat	ter. Consu	ult a	
physician.						; • •	
If swallowed: If symptoms persist consult doctor							
Information for doctor:	' .		· · .	· .		· · .	
Most important symptoms and effects, both acut	e and c	lelayed:	'			1	
No data available							
Indication of any immediate medical attention ar	nd spec	ial treatme	nt need	ded			
No data available	·			·			۰.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Special hazards arising from the substance or mixture No data available Advice for firefighters

Protective equipment: No special measures required.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Not required. Environmental precautions: No special measures required. Methods and materials for containment and cleanup: Dispose contaminated material as waste according to item 13. Reference to other sections See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling: Handle under inert gas.

Precautions for safe handling

No special measures required.

Open and handle receptacle with care.

Information about protection against explosions and fires: No special measures required.

Conditions for safe storage, including any incompatibilities: Store contents under inert gas.

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Specific end use(s) No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems: No further data; see item 7. Control parameters

Components with limit values that require monitoring at the workplace:

10049-05-5 chromium dichloride PEL Long-term value: 0.5 mg/m 3 as Cr REL Long-term value: 0.5 mg/m 3 as Cr; See Pocket Guide App. C Additional information: The lists that were valid during the creation were used as basis. Exposure controls Personal protective equipment: General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed. Breathing equipment: Not required. Protection of hands: SProtective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradationMaterial of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protectio	n: Safety o	glasses	S	,				
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and the second se								

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basi	c physical	and chem	ical pro	perties					111		. :
Appearance:			· · .			· · .	1. 1.		· · .	1. 1.	
Form: Powder											
Color: Whitish				1 1	. '			. '			
Odor: Odorless				1 1	;			;			
Odor threshold: No	data availa	able.									
pH: N/A			· · · ,				14		11	14	
Melting point/Meltin	g range: 8	24 °C (15′	15 °,F)	1		1			1		
Boiling point/Boiling											
Flash point: N/A	· · · ·			1 I		111		j.			.:
Flammability (solid,											
Ignition temperature	e:		• •						11.		
Decomposition tem	perature: N	lo data av	ailable.	1		1			1.1	н 1 - 1	
Autoignition: No dat	ta available	Э.									
Danger of explosion	n: Product	does not p	present	an exp	losion ha	azard.		1	: * *	н н н	
Explosion limits:											
Lower: No data ava	ilable.										
Upper: No data ava	ilable.		·	н н н		'			1		
Vapor pressure: no	data hPa										
Density at 20 °C (68	8 °F): 2.87	8 g/cm		1	.1				:**		
3 .			· · ,	1.		· · .	1. 1.		· · · .	1. 1.	
(24.017 lbs/gal)			·	ı							
Relative density No				1 1			1 1			1 1	
Vapor density N/A		.:			:			:			:
Evaporation rate N/			×	,		,					
Solubility in / Miscib	ility with		· · ·				14. 14.		· · · ·		. • •

			1 1 1	1	1						
Water: Insoluble.	• • .	· .	 · · .	· .			۰.			÷.,	
Partition coefficien											
Viscosity:	·		1 	н 1 — 1		1			1	н 1 - 1	. '
Dynamic: N/A											
Kinematic: N/A						: ' '		.:			
Solvent content:	· · .	1. 1.	 · · .	1. 1.		· · .	1. 1.		•••	1. 1.	
Organic solvents:	0.0 %		 ·			·			·		
VOC content: 0.0 g								,			
Solids content: 100	0.0 %										:
Other information					1			1			
			 							1. 1.	

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stabilityThermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No data available Incompatible materials: No data available Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological ef	fects		·	 	۰.	 		
Acute toxicity:								
LD/LC50 values that are relevant	ant for cla	ssificati	on:	1 		1 1		. '
10049-05-5 chromium dichlori	de							
Oral LD50 1870 mg/kg (rat)					1 1 1			. :
Primary irritant effect:				 с.,	1.	 с. С.	14	. '

on the skin: No irritant effect.		· .			·				
on the eye: No irritating effect.									
Sensitization: No sensitizing effects kno	own.			1 			1		
Additional toxicological information:									
When used and handled according to s				ct does r					
according to	· · · ,			· · · .				1. 1.	
our experience and the information pro	vided to	us.		·			·		
The substance is not subject to classifi	cation.								
Carcinogenic categories		1 1	:						
IARC (International Agency for Resear			ı		,	i.		,	
Substance is not listed.	· · · .			11	14		11	11.	
NTP (National Toxicology Program)	·			·			1		
Substance is not listed.									
OSHA-Ca (Occupational Safety & Heal	th Admii	nistratio	on)	111	1 I	j:	111		
Substance is not listed.		1			1				
					· .			· .	
	1			·			1		
SECTION 12. ECOLOGIC	AL II								
			RMAT	ION					
Toxicity									
	:	1 - 1 1	.:						
	available	e		999 194	14. 1		···.	14. 1	
Aquatic toxicity: No data available	available	e			14. 1		···.	14. 1	
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai	available	e 							
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems:	available	e 							
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai	available	e 							
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai Mobility in soil No data available Additional ecological information: Not k Results of PBT and vPvB assessment	available lable nown to	e be haz	zardous t	o water.					
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai Mobility in soil No data available Additional ecological information: Not k	available lable nown to	e be haz	zardous t	o water.					
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai Mobility in soil No data available Additional ecological information: Not k Results of PBT and vPvB assessment PBT: N/A	available lable nown to	e be haz	zardous t	o water.					
Aquatic toxicity: No data available Persistence and degradability No data Behavior in environmental systems: Bioaccumulative potential No data avai Mobility in soil No data available Additional ecological information: Not k Results of PBT and vPvB assessment PBT: N/A	available lable nown to	e be haz	zardous t	o water.					•

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation: Disposal must be made according to official regulations.

Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

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SECTIO	ON 14.	TRAN	ISPOR	TIN	FOR	MATI	ON	, , ,		1	:	. '
UN-Numbe	er											
DOT, ADN	, IMDG, IAT		egulated		1		111			111		
UN proper	shipping na	ame		· · ,			· · ·			· · .	1. 1.	
DOT, ADN	, IMDG, IAT	rA not re	egulated									
Transport I	hazard clas	s(es)	. '	1 1		, '						
	, IMDG, IAT	ΓA , ,	.1		н н н	.1		1 I	ji.	:**	· · ·	. :
Class not r	oup	· .			· .			· .			· .	
	G, IATA not											
Environme	ntal hazard	s:										
Marine pol	lutant: No		.:									
Special pre	ecautions fo	r user N	/A									
Transport i	n bulk acco	ording to	Annex II c	of			· · .	· · ·		11.		. '
MARPOL7	3/78 and th	e IBÇ C	ode N/A	1			·			·		
UN "Model	Regulation	": not re	gulated									

SECTION 15. REGULATORY INFORMATION

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

Section 355 (extremely hazardous substances):

Substance is not listed.

	1			111				1	
Section 313 (Specific toxic chemical listi	ings):	1. 1.		· · .	1. 1.		· · .	1. 1.	
Substance is listed.									
TSCA (Toxic Substances Control Act):	1			1.0			·		
Substance is listed.									
Proposition 65									. :
Chemicals known to cause cancer:	· · .	1.		· · · .	1.		· · .		
Substance is not listed.				1	,		·	1	
Chemicals known to cause reproductive									
Substance is not listed.						:			:
Chemicals known to cause reproductive					,			1	
Substance is not listed.		14		· · · ·	14	111	· · · .	14	
Chemicals known to cause developmen	tal toxi	city:		·			·		
Substance is not listed.									
Carcinogenic categories			.:	111			:**		.:
EPA (Environmental Protection Agency)									
Substance is not listed.		1					· · · .		. * *
TLV (Threshold Limit Value established	by AC	GIH)		1. J.			1		11
Substance is not listed.									
NIOSH-Ca (National Institute for Occupa	ational	Safety	and Hea	alth)	· ·		111		.1
Substance is not listed.		· .			· .			·	
GHS label elements not applicable	,		·	,					
Hazard pictograms not applicable	<u>'</u>			1			1		1. ¹
Signal word not applicable									
Hazard statements not applicable			. 1	1.1.1					.1
Precautionary statementsP231 Handle	under ir	nert ga	S	· · .	1.		· · .		
P222 Do not allow contact with air.				5					
P305+P351+P338 If in eyes: Rinse caut lenses,	tiously	with wa	ater for s	everal mi	nutes.	Remove	contact		. '
if present				1.1.1	н н Н	.÷			.1
and easy to do. Continue rinsing.	· · .			· · .	1.			1.	. • •

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P422 Store contents under inert gas.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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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