

samaterials.com

SAFETY DATA SHEET

Version 3.0 Revision Date 09/04/2017

1. P	RODUCT AND COMP	ANY ID	ENTIFICA	FION								
1.1	Product identifiers Product name	5	: Chr	omium	'		:**		.:			.1
:	Brand	1	: SAM		1	н 1 - 1		÷.,			1	
	CAS-No.		: 7440-	47-3								
1.2	Relevant identified u	uses of	the substa	nce or mix	ture a	and uses a	dvised ag	jainst				
	Identified uses		: Labor	atory chem	icals,	Synthesis o	of substand	ces				
1.3	Details of the suppli	er of th			'		: * *		.:	1.1.1		.1
1.	Company	1	Mater 23661	ord Advance ials I Birtcher D Forest, CA	r.)		4			:	
	Telephone Fax		, ⁻ USA : +1 (94	49) 407-890 49) 812-669)4		.:	а — а а				
1.4	Emergency telephon Emergency Phone			49) 407-890	'	.1	:**		.: .:	111		.:
			. +1(94	19) 407-090	/4							
2. H 2.1	AZARDS IDENTIFICA Classification of the	1	nce or mix	ture				1			1	
2.2	Not a hazardous subs			utionary st	ateme	ents		н н н				
	Not a hazardous subs	stance o	r mixture.									
2.3	Hazards not otherwi	se clas	sified (HNC	C) or not	cover	ed by GHS	- none					:
3. C	OMPOSITION/INFOR	MATIO	N ON INGR	EDIENTS					1			
3.1	Substances Formula Molecular weight	:	: 52.00	g/mol	1	н 1 - 1					:	
	CAS-No. EC-No.		: 7440- : 231-1									
	Hazardous compone	ents					tion		0	a sheat's a	-	
	Component Chromium					Classifica	uon		Conc	entration	-	
				111					90 - 1	00 %		. :
1	н. 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 — 1917 —	:	: 		÷.	1.					÷.,	

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4. F	IRST AID MEASURES									
4.1	Description of first aid measures	1						.1		
	General advice Move out of dangerous area.									
'	If inhaled If breathed in, move person into fresh ai	r. If not bre	eathing,	give artificia	l respirat	ion.	,÷	: • •		
:	In case of skin contact Wash off with soap and plenty of water.		:			:			1	
	In case of eye contact Flush eyes with water as a precaution.									
	If swallowed Never give anything by mouth to an unc	onscious p	person. I	Rinse mouth	with wat	er.		.:		. '
4.2	Most important symptoms and effects The most important known symptoms ar				labelling	(see, see	ction 2.2) a	and/or in s	ection 1	1,
4.3	Indication of any immediate medical a	attention a	and spe	cial treatme	ent need	ed				
1	No data available			1		Ξ.			1	
<u>5.</u> F	IREFIGHTING MEASURES									
5.1	Extinguishing media	.:								
	Suitable extinguishing media Use water spray, alcohol-resistant foam,	, dry chem	ical or c	arbon dioxic	le.					
.2	Special hazards arising from the subs	stance or	mixture		:		.1	: • •	'	
5.3	Advice for firefighters Wear self-contained breathing apparatus	s for firefig	hting if r	necessary.					1	
5.4	Further information No data available									
6. A	CCIDENTAL RELEASE MEASURES									
6.1	Personal precautions, protective equi Avoid dust formation. Avoid breathing va For personal protection see section 8.	•			edures					
6.2	Environmental precautions No special environmental precautions re	auired.		.:			.1			
6.3	Methods and materials for containme Sweep up and shovel. Keep in suitable,	nt and cle				1			1	
6.4	Reference to other sections For disposal see section 13.	.:			.1			.1		
7. †	ANDLING AND STORAGE									
7.1	Precautions for safe handling Further processing of solid materials materials formation should be taken into consideral Provide appropriate exhaust ventilation a For precautions see section 2.2.	ation befor	e additio	onal process	ing occu		he potenti	al for com	bustible	dust
7.2	Conditions for safe storage, including Keep container tightly closed in a dry an									
	Air sensitive. Keep in a dry place. Storage class (TRGS 510): 13: Non Con	. 1		. * *	.1					. '
									D 2	
									Page 2	. 017

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component		CAS-No.	Value	Control	Basis
				parameters	
Chromium		7440-47-3	PEL	0.5 mg/m3	California permissible exposure
					limits for chemical contaminants (Title 8, Article 107)
		Remarks	see Sections	s 1532.2, 5206 & 8	359
	.:		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
			TWA	0.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
			Skin irritation		nclosed are those for which changes
			are proposed See Notice d		es (NIC)

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

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						1					. '
9.1		ormation on basic physica		erties							
1	a)	Appearance	Form: powder Colour: light grey	÷.,			1.	н 1 - 1		÷.,	
	b)	Odour	odourless								
	c)	Odour Threshold	No data available								
	d)	рН	No data available								
	e)	Melting point/freezing point	Melting point/range	e: 1,857	°C (3,375 °F) - lit.			; · ·		.:
	f)	Initial boiling point and boiling range	2,672 °C (4,842 °F	⁻) - lit.							
	g)	Flash point	Not applicable								
	h)	Evaporation rate	No data available								
	i) , •	Flammability (solid, gas)	No data available			.:			1		
	j)	Upper/lower flammability or explosive limits	No data available								
'	k)	Vapour pressure	No data available						111		. 1
	I)	Vapour density	No data available								
	m)	Relative density	7.14 g/mL at 25 °C	C (77 °F)				н н н			
	n)	Water solubility	insoluble								
	o) _, ,	Partition coefficient: n- octanol/water	Not applicable for	inorganio	c substances			. 11	.:		
	p)	Auto-ignition temperature	No data available								
'	q)	Decomposition temperature	No data available					.:			. :
	r) ,	Viscosity	No data available								
	s)	Explosive properties	No data available	· .							
	t)	Oxidizing properties	No data available								
9.2		r safety information ata available									
10.	STAB	ILITY AND REACTIVITY									
10.1	Reac No da	tivity ata available			1	; • •	1. ¹		:		. :
10.2		nical stability e under recommended st	orage conditions.				÷.,			÷.,	
10.3		ibility of hazardous read ata available	ctions			:					
		1	· · · · · · · · · · · · · · · · · · ·						1		

).4	Conditions to avoid No data available	4. – 1.		1			t,			1	
).5	Incompatible material Strong acids, Strong ox					1		111		н н н	. '
).6	Hazardous decomposition provide the event of fire: see	ion products form roducts - No data		fire cond	ditions C	hromium c	oxides	j.		'	.:
1,1.	TOXICOLOGICAL INFO	RMATION									
11.1	Information on toxic	cological effects		· ·						1.	
	Acute toxicity No data available										
	Inhalation: No data avai	ilable									
	Dermal: No data availal	ble									
	No data available	ant in general	: * *		.÷	111		.:	111		
	Skin corrosion/irritation No data available	on									
· .	Serious eye damage/e No data available	eye irritation					1.				
	Respiratory or skin se No data available	ensitisation	,÷			1			, i	н н н	
	Germ cell mutagenicit No data available	ty									
'	Carcinogenicity		111	'	.1	111		.1	111		
:		onent of this proc , possible or confi					qual to 0	.1% is ide	ntified as	:	
,	NTP: No comp	onent of this proc anticipated carci	luct prese	nt at lev			qual to 0	.1% is ide	ntified as a	1	
		onent of this prod gulated carcinoger		nt at lev	els greater	than or ec	qual to 0.	1% is on (OSHA's		
	Reproductive toxicity										
	No data available								: * *		
:	Specific target organ	toxicity - single	exposure							1	
	Specific target organ No data available		ed exposi								
	Aspiration hazard No data available		1						. '		
. '	Additional Information RTECS: GB4200000		; • •		.:				111		
	To the best of our know	ledge, the chemi	cal, physic	cal, and	toxicologio	cal properti	ies have	not been t	thoroughly	investiga	ated.
Ξ.	Stomach - Irregularities Stomach - Irregularities				1		1	1		÷.,	
12.	ECOLOGICAL INFORM	IATION	:								

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÷.	Toxicity to daphnia and other aquatic invertebrates	EC50 - Dap	ohnia mag	ına (Wate	er flea) -	0.07 mg/l - 48	3 h			÷.	, , ,
12.2	Persistence and degradat The methods for determinin		ability are	not appl	icable to	inorganic sub	ostance	S			
12.3	Bioaccumulative potential		ability are	norappi		inorganio oak		0.			
	Bioaccumulation	Oncorhync - 50 µg/l	hus mykis	s (rainbo	ow trout)	- 30 d		.1			. :
:	· · · · · · · · · · · · · · · · · · ·	Bioconcent	tration fact	tor (BCF)): 1.03 -	1.22	:				
12.4	Mobility in soil No data available										
12.5	Results of PBT and vPvB PBT/vPvB assessment not a			safety as	ssessme	nt not require	d/not co	onducted			
12.6	Other adverse effects										
	No data available		111	· · · '					111		. 1
13.	DISPOSAL CONSIDERATIC	ONS									
13.1	Waste treatment methods			÷.,			1				
	Product Offer surplus and non-rec	yclable solu	tions to a	licensed	disposal	company.					
	Contaminated packagin Dispose of as unused pro					.'					
-14. '	TRANSPORT INFORMATIO	N									
	DOT (US) UN number: 3077 Cl	lass: 9		Dookin	a aroun	: · ·					
1	Proper shipping name: En Reportable Quantity (RQ): Poison Inhalation Hazard:	vironmentall 5000 lbsRe	ly hazardo portable (ous subst	ig group: tance, sc (RQ): 10	olid, n.o.s. (Ch	nomium	ר) (1	
	IMDG Not dangerous goods		1			j) L			.:		
	IATA Not dangerous goods	.1	111	'	,÷		'	.1	:	*	, i
15.	REGULATORY INFORMATI	ION									
	SARA 302 Components This material does not conta	ain any com	ponents w	ith a sec	tion 302	EHS TPQ.	1.			· .	
	SARA 313 Components The following components a	are subject to	o reporting	g levels e	establishe	ed by SARA T CAS-No.	ītle III,	Section 31 Revision			
	Chromium					7440-47-3		2007-07			
'	SARA 311/312 Hazards Chronic Health Hazard	.1	: • •					.1			
1	Reportable Quantity	: D007	7 lbs	1			:				
	Massachusetts Right To K	(now Comn	onents								
	Massachusetts Right to R										

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	Pennsylvar Chromiur	-						CAS-No. 7440-47-3		Revisior 2007-07			
-	California F	Prop. 65 (ct does not			nicals knov	vn to Sta	te of Cal	lifornia to caus	se cano	111		any othe	r
16. C	OTHER INFO	ORMATIC	DN			'		1 1 1 1		.:			
	Further in This mate Advanced	nformation erial safety d Materials	n y data she s provide:	es no warra		er expres		on, considerat plied, and assi					
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