

No data available

SAFETY DATA SHEET

		111			: ' '			: ' '	Date	Accesse	d: 25/08	/2023
				1	1,		`; ;		Dat	e Revise	d: 06/01	/2023
· .		1 - 1 1			1 - 1 1			1 I	1		1 - 1 1	1
	CTION											
	uct Name					1 I 1					111	
					:		1			5	1	
			ses of t	ne subsi	tance: S	scienti	ric resea	rcn and	aevei	opment		
•••	lier detai		torials									
E-mai	il: sales@)samate	rials co	m				: * *			111	
	-				:		1.	:			:	
	ess: 2366											
· :												· .
	CTION									 1		
Class	ification a	accordin	g to Re	gulation (EC) No	1272/2	2008					
The s	ubstance	e is not c	lassifie	d as haza	ardous to	health	n or the e			cording to		
regula	ation.					1 1						
Class	ification a											,
N/A	1	1	1 1 - 1	1	÷.,	н 1 — 1	1			1	1	
Inform	nation co	ncerning	ı particı	ılar hazaı	ds for h	uman a	and envir	onment:				
No da	ata availa	ble										
Hazar	rds not ot	herwise	classifi	ed		1 1			1 1			

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1				1 1 1						1 1 1		
Label elements	1					`:	1					
Labelling accordi	ng to F	Regulat	tion (EC)	No 127	2/2008							
N/A												
Hazard pictogran												
N/A												
Signal word	1					`: :	1					
N/A		· .			۰.	. '	1 1				۰.	
Hazard statemen											,	
N/A								1 1		:**		
WHMIS classifica		,			ı			,				
D2A - Very toxic	materi	al caus	ing other	toxic e	ffectsC	lassificat	ion syste	em ^e	1			
HMIS ratings (sca	ale 0-4	·) ·			· ;						· .	
(Hazardous Mate	rials Ic	dentific	ation Sys	tem)								
Health (acute effe	ects) =	0,								111		
Flammability = 0							,					
Physical Hazard	= 0	н 1 - 1		· .		1	· ,		:	1.		
Other hazards		1			`;					· · ·	1	
Results of PBT a	nd vPv	/B asse	essment									
PBT: N/A				: • •			: • •					
vPvB: N/A	1			1					`:			
					1							
SECTION 3												
Substances				:	1 1		111	1 1				
CAS No. / Substa	ance N	ame:		1	1	`:						
Stainless steel		· .			۰.			· .	. *			

SECTION 4. FIRST AID MEASURES

Description of first aid measures

			1							
General information		÷.								
No special measures requ	uired.									
If inhaled:										. '
Seek medical treatment in										
In case of skin contact:	- 	; · ·								
Generally the product doe	es not irritate	the skin.			1					
In case of eye contact:										. '
Rinse opened eye for sev	eral minutes	under rur	nning \	vater. It s	ymptom	is persi	st, consl	lit a docto	or.	
If swallowed:					: • •			:**		
If symptoms persist consu										
Information for doctor										
Most important symptoms	and effects,	both acu	te and	delayed						
No data available										
Indication of any immedia	te medical a	ttention a	nd spe	cial treatr	nent ne	eded				
No data available		÷.,					·:	:		
	1								· .	
SECTION 5. FIR	EFIGHT	ING M	EAS	URES	5					
Extinguishing media										
Exangaioning modia										
Suitable extinguishing age	ante									
	ents	1,					1			
Suitable extinguishing age	ents Use fire-figh	ting meas	sures t	hat suit th	ne surro	unding	fire.			
Suitable extinguishing age Product is not flammable.	ents Use fire-figh om the subst	ting meas ance or n	sures t nixture	hat suit th	ne surro	unding	fire.	÷.		
Suitable extinguishing age Product is not flammable. Special hazards arising fre If this product is involved i	ents Use fire-figh om the subst	ting meas ance or n	sures t nixture can be	hat suit th released	ne surro I:	unding	fire.			
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 meas ance or n following	sures t nixture can be	hat suit th released	ne surro	unding	fire.			:

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.		1	н 1 — 1		÷.,		1
Environmental precautions:			· .			· .	
Do not allow material to be released to the environment	nt without o	official _l	permits.			i	
Do not allow product to enter drains, sewage systems		ater co					
Do not allow material to penetrate the ground or soil.					1	1	
Methods and materials for containment and cleanup:		1,		`: 			
Pick up mechanically. Prevention of secondary hazards:		· ·	`:	at in		`:	. '
No special measures required. Reference to other sections							
See Section 7 for information on safe handling		1	1 1 - 1	1	1	, , ,	1
See Section 8 for information on personal protection e	quipment.		1			`: 	. '
SECTION 7. HANDLING AND STO	RAGE		· · ·			· · ·	
		1			÷.,		

Handling						
Precautions for safe handling	1 - 1 1				1	
Keep container tightly sealed.						
Store in cool, dry place in tightly closed containers.	1.1.1	1 I 1		111		
Information about protection against explosions and fires:			4	1		
No special measures required.						
Conditions for safe storage, including any incompatibilities					1	. '
Requirements to be met by storerooms and receptacles:						
No special requirements.				111	1	
Information about storage in one common storage facility:	÷.,					1
Not required. Further information about storage conditions:	1 1 1		[.]		1	
Keep container tightly sealed.	1.1					
Store in cool, dry conditions in well-sealed containers.						
Specific end use(s)	1		1	1		1

No data available		1	1 1 - 1		÷.,	н 1 - 1		÷.,	н 1 - 1	
a en a		1 - 1 1							1	
SECTION 8. EXP	OSURE	CON	ITRC	DLS/P	ERSC	NAL	-			
PROTECTION	н н							111		
Additional information about	ut design of	technica	l syste	ms:	4,		`: 	÷.,		
No further data; see sectio Control parameters	pn 7.	а – а а			1 - 1 1			1 - 1 1	1	
Components with limit valu	ues that requ	uire mon	itoring	at the wo	orkplace:					
Chromium metal	,		1							
mg/m3		÷.,	1 1 1		÷.,		1	÷.,		
ACGIH TLV 0.5; Not class	ifiable as a l	numan c	arcinog	jen,					1	
Belgium TWA 0.5										
Denmark TWA 0.5		; • •								
Finland TWA 0.01			,	· .						
France VME 0.5	. :	· ·			· ·		:			
Japan OEL 0.5						1			1	,
Korea TLV 0.5										
Netherlands MAC-TGG 0.5	5								1 1	1
Norway TWA 0.5Poland T	WA 0.5									
Sweden NGV 0.5										
United Kingdom TWA 0.5										
USA PEL 1										
Nickel and inorganic comp	ounds, as N	li	1		1			1	1	
mg/m3			1 1 1				1	÷.,		
ACGIH TLV 1.5; A5 (metal	I)		۰.	. '		· .				
0.2; A1 (insoluble compou										
0.1; A4 (soluble compound	ds)							1.1		
Austria Carcinogen										
Denmark TWA 0.5		1			1		1	1		

	1 1 1			1 1 1					
Finland TWA 0.1 (skin) Carcinogen	÷.,			÷.,		1	1		
France VME 1; C3-Carcinogen									
Germany Carcinogen									
Hungary 0.005-									
STEL; Carcinogen (insoluble compound	s)	1		1	1		1	1	
Japan OEL 1; 2B-Carcinogen	1	1 1 1	1	÷.,			1		
Korea TLV 1.5		· .			· .			· .	
Netherlands MAC-TGG 1; Carcinogen	,	1	,	,	I	,			,
1 (insoluble compounds)									
Norway TWA 0.05									
Poland TWA 0.25		1	`: :	1.	1		1		
Russia 0.05-STEL		· .							
Sweden NGV 0.5 (dust)									
Switzerland MAK-W 0.5; Carcinogen	; • •			1.1.1 1			111		
United Kingdom TWA 0.1 USA PEL 1	;		1	1		1	4,		1
Additional information: No data	· · ·	`;							
Exposure controls									
Personal protective equipment		1 1		111	· · ·		111		
Follow typical protective and hygienic pr	actices	s for ha	ndling ch	nemicals.					
Maintain an ergonomically appropriate w	orking								
Breathing equipment: Not required.		1		1 - 1 1					
Protection of hands: Not required.									
Eye protection: Safety glasses		1 1					1.1		
Body protection: Protective work clothing] . :		1		, , ,			, , ,	
		· .						· .	

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Solid in various forms		1			1				
Color: Silver-colored									
Odor: Odorless									
Odor threshold: No data availa									
pH: N/A									
Melting point/Melting range: N	o data ava	ailable	1 1 - 1				`:		
Boiling point/Boiling range: No	o data avai	lable	· .			· .			
Sublimation temperature / star	rt: No data	availal		,			i.		
Flash point: N/A									
Flammability (solid, gas)									
Fine powder: highly flammable	Э '		н 1 - 1				1		 1
Ignition temperature: No data	availableD	ecomp	osition	tempera	ture: No	data a	vailable		
Autoignition: No data available	9.								
Danger of explosion:			1 I 1		111			111	
Product does not present an e				۰.	:		<u>.</u>	:	
Explosion limits:	i			i			i		 :
Lower: No data available									
Upper: No data available									
Vapor pressure: N/A				1.1.1	111			111	
Density: No data available					1			1	
Relative density: No data avai	lable.								
Vapor density: N/A	. '		1						. '
Evaporation rate: N/A									
Solubility in Water (H		,	1						
			н 1 — 1		1		1	1	
O): Insoluble			· .			1			
Partition coefficient (n-octanol/	/water): No	o data a	availab	le.					
Viscosity:			1 1						
Dynamic: N/A									
Kinematic: N/A					1.		1	1	

				,							
Other information		1	÷.		1	÷.,			4,		
No data available	`:										
SECTION 10. S	STAE	BILITY	(ANE) RE		/ITY			111	· · ·	,
Reactivity		1	1		1	1		`: :	4		
No data available Chemical stability	` ;			1			5			1	
Stable under recomme	nded s	torage c	ondițions	S. , ,							
Thermal decomposition	n / conc	ditions to	be avoi	ded:							
Decomposition will not	occur i	f used a	nd store	d accor	ding to s	pecificat	ions.	`: :	1	1 1 - 1	
Possibility of hazardou											
Very fine powder: spor											
Conditions to avoid			: **						: •		,
No data available											
Incompatible materials	:	:	1	1 1		· .			· .		
Oxidizing agents			н н н			· · ·				1	
Interhalogens											
Halogens			1 1 1 1						111		
Sulfur		1	:		· :			· .	:		
Ammonia											
Hazardous decomposi	tion pro	ducts:								1	
Metal oxide fume											
					· .						
SECTION 11. 7											
Information on toxicolo							1		1		,
Acute toxicity: No effect	ts knov	vn.									
LD/LC50 values that a										1	
Skin irritation or corros	ion: Po	wder: irr	itant effe	ct				1			

Eye irritation or corrosion: Powder: irritant effect

Sensitization: Sensitization possible through skin contact.

Germ cell mutagenicity: No effects known.

Carcinogenicity:EPA-A: human carcinogen: sufficient evidence from epidemiologic studies to support a causal

association between exposure and cancer.

IARC-2B: Possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals.

NTP-R: Reasonably anticipated to be a carcinogen: limited evidence from studies in humans or sufficient evidence from studies in experimental animals.

ACGIH A4: Not classifiable as a human carcinogen: Inadequate data on which to classify the agent in

terms of its carcinogenicity in humans and/or animals.

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:

Chromium powder, chromium (II) and chromium (III) compounds may cause nausea, diarrhea, vomiting, skin and eye irritation and pneumoconiosis. Although less likely than Cr(VI) compounds, the

NTP considers all chromium to be potentially carcinogenic.

Iron compounds may cause vomiting, diarrhea, pink urine, black stool, and liver damage.

May cause damage to the kidneys. Irritating to the respiratory tract, they may cause pulmonary fibrosis

if dusts are inhaled.

Nickel and nickel compounds may cause a form of dermatitis known as nickel itch. They may also cause intestinal disorders, convulsions and asphyxia. Airborne nickel contaminated dusts are regarded

as carcinogenic to the respiratory tract.

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. ECOL	.OGIC		NFO	RMA	ΓΙΟΝ			1.1.1	• •	
Toxicity		1		`;	÷.,		1	÷.,		
Aquatic toxicity:		1 1	۰.			· .	. •		· .	
No data available								,	,	
Persistence and degradability										
No data available										
Bioaccumulative potential		1			1		1		1 1 1	
No data available						1			1	
Mobility in soil										
No data available			1 1							
Additional ecological information	on:								1	
Do not allow material to be rele	eased to				ut official			1.		
Avoid transfer into the environr	ment.		1		1 - 1 1	1		н н н	1	
Results of PBT and vPvB asse	essment									
PBT: N/A									1 I 1	
vPvB: N/A				1						
Other adverse effects		·		,	,		,			
No data available			1			1				
		1.1.1	1 I					1 - 1 - 1 1		
SECTION 13. DISPO	DSAL	CON		ERAT	IONS					
Waste treatment methods										
Recommendation	. '	ı	;	. '		1			;	
Consult official regulations to e	ensure pro	oper di	sposal.	Jncleane	ed packa	gings:				
Recommendation:										

Disposal must be made according to official regulations.

SECTION 14. TRA	NSPC		IFOF	۲AM	ION	1.	1	4		
Not a hazardous material for	r transpor	tation.	1		н н н	1			1	
UN-Number										
DOT, IMDG, IATA			1 I 1		; • •			:		
None					1.					
JN proper shipping name										
DOT, IMDG, IATA										
Jone										
ransport hazard class(es)		·			,					
DOT, ADR, IMDG, IATA			1 1 - 1	1	1		1		н 1 - 1	
Class						· .			1	
lone	·				×				,	
acking group		111	1 I							
OOT, IMDG, IATA										
lone	1	4	н 1 - 1	1	1.		1	1.		
nvironmental hazards:		1 - 1 1	`: 		н н н				1	
J/A										
Special precautions for user		111								
N/A	· .			1.	:		1.	:		
Transport in bulk according t										
N/A		1 - 1 1	1						1	
Transport/Additional informa	ation:									
Not dangerous according to	the above	e specific	ations.		111	1 I		111		
	· :		1		1					
Marine Pollutant (DOT):										
No										
			1 - 1 1							

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. This product contains a chemical known to
state of California to cause cancer and/or reproductive toxicity.
SARA Section 313 (specific toxic chemical listings)
Stainless steel
California Proposition 65
Prop 65 - Chemicals known to cause cancer
Stainless steel
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.
This product contains chromium and is subject to the reporting requirements of section 313 of the
Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.
This product contains nickel and is subject to the reporting requirements of section 313 of the
Emergency Planning and Community Right to Know act of 1986 and 40CFR372.
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 not 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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