

Revision Date 27-Dec-2020

Revision Number 2

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		E-ma	il : sales@s	amaterial	s.com						
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Stainless Steel powder, Type 430-L

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	Environmental haz Based on available		classification	n criteria ar	e not met		14				÷	
1	Full text of Hazard State	ements: se	e section 1	6		11.	:		11.			
:.	2.2. Label elements	111	4.									
:.		÷.,		· · ·	÷.,			÷.,	.1		÷	
• :	Signal Word	.8	Warni	ing	.41	in.	:	.41	in.	:	.::	
:.	Hazard Statements H351 - Suspected o	f causing			111			111			:::	•
	Precautionary Stateme P201 - Obtain speci P280 - Wear protec P308 + P313 - IF ex	al instruct tive gloves	s/protective	use clothing/ey	e protecti al advice/	on/face pro	tection		.H		·	
1	in an		11. 1	:	.:::		:	.11	11.	:	.11	11.
	2.3. Other hazards	::: :::	4.								· · · · · · · ·	•

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Ī	C	omponent	t		CAS-No	EC-	No.	Weight %	CLP	Classifica	ation - Regula	ation (EC) No	
				1.1		1.1		1.00	1.1		1272/2008	110	
Ī		Iron			7439-89-6	EEC No. 2	231-096-4	82.5			-		
Ī	(Chromium			7440-47-3	EEC No. 2	231-157-5	16.5			-		
Ī		Silicon			7440-21-3	EEC No. 2	231-130-8	0.5			-		
		1.1	1.1		1. I I			1.1			1.1		
							1.1.1			1.1.1			

Full text of Hazard Statements: see section 16

				SE	CTION 4	4: FIRS	T AID M	EASURE	ES				
				11.									
	4.1. Description	n of first	t aid mea	sures									
	Eye Contact				e immédiate cal attentio		enty of wat	er, also und	er the eye	lids, for at l	east 15 min	utes, Get	
,	Skin Contact	:-:	÷	Wash	n off immed	liately with	plenty of v	vater for at l	east 15 m	inutes. Get	medical atl	ention	

St	ainless Steel	powder, ⁻	Type 43	0-L	SAFE	TY DA	TA SH	EET		Revisi	on Date 27	'-Dec-2020
			1	ìmn	nediately if sy	mptoms oc	cur.		1			1
In	gestion				an mouth wit		I drink afte	rwards plei	nty of wate	er. Get me	dical attentic	on if
In	halation	:	.::	Rer	move to fresh	air. Get me	edical atter	ntion imme	diately if s	symptoms o	occur.	. 11
Se	elf-Protection	of the Fir	st Aider	No	special preca	autions requ	iired.					
<u>4.</u> 2	2. Most impo	rtant symp	otoms a	nd effec	ts, both acu	ite and dela	ayed				1.1	
				Nor	ne reasonabl	y foreseeab	le.					
4.:	3. Indication	of anv imr	nediate	medica	l attention a	nd special	treatment	needed	÷			
	otes to Physic	-	illutto		at symptoma	-		noouou				
		1		SEC	TION 5: I	FIREFIG	HTING	MEASU	RES		1 - 1 - 1 1	
<u>5.'</u>	1. Extinguish	ing media	L_:::							÷4.		111
	uitable Exting				priate to loca	al circumsta	nces and t	he surroup	dina envir	onment M	later enrav	carbon
	oxide (CO2), c									onnent. w	ater spray,	Carbon
	tinguishing information a		ch mus	t not be	used for sa	fety reasor	IS					
<u>5.</u> 2	2. Special haz	zards arisi	ing from	n the su	bstance or n	<u>nixture</u>	1	: ' '	.81	11.	: • •	.11
Th	ermal decom	position ca	n lead to	o release	e of irritating	gases and v	apors.					
	azardous Con one under non								111			
<u>5.:</u>	3. Advice for	firefighter	S		1.1	1			÷.,			÷
	s in any fire, wo	ear self-co	ntained	breathin	g apparatus	pressure-de	emand, MS	SHA/NIOSH	l (approve	ed or equiva	alent) and fu	ıll
			SE	CTION	6: ACCI	DENTAL	RELE	ASE ME	ASUR	ES		
	<u>1. Personal p</u>											
Er	sure adequat	e ventilatio	on. Use p	personal	protective ed							
<u>6.</u> 2	2. Environme	ntal preca	utions	.:					11.		11	11.
Sł	nould not be re	eleased inte	o the en	vironmei	nt. Do not flu	sh into surfa	ace water o	or sanitary	sewer sys	stem.		
<u>6.:</u>	3. Methods a	nd:materia	al for co	ntainme	ent and clear	ning up		:				
Sv	veep up and s	hovel into	suitable	containe	ers for dispos	al. Avoid du	ust formatio					
<u>6.4</u>	4. Reference	to other s	ections	·:.			· .		111	4.	::*	
Re	efer to protecti			l in Secti	ions 8 and 13	3.						÷
						1.1.1			1.1.1			1 1 L L L L L L L L L L L L L L L L L L

Stainless Steel powder, Type 430-L

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Technical Rules for Hazardous Substances (TRGS) 510 Storage Class (LGK)	Class 13	1	
(Germany)			

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s): **EU** - Commission Directive (EU) 2019/1831 of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC **UK** - EH40/2005 Work Exposure Limits, Third edition. Published 2018. **IRE** - 2018 Code of Practice for the Chemical Agents Regulations, Schedule 1. Published by the Health and Safety Authority

	Componen	t		The United Kingdom	European Union	Ireland
	Chromium		1.1	STEL: 1.5 mg/m ³ 15 min	TWA: 2 mg/m ³ (8hr)	TWA: 2 mg/m ³ 8 hr.
			-	TWA: 0.5 mg/m ³ 8 hr		STEL: 6 mg/m ³ 15 min
	Silicon			STEL: 30 ppm 15 min		TWA: 4 mg/m³ 8 hr.
				STEL: 12 mg/m ³ 15 min		respirable dust
				TWA: 10 mg/m ³ 8 hr		TWA: 10 mg/m ³ 8 hr. Si
				TWA: 4 mg/m ³ 8 hr		total inhalable dust
11.						STEL: 30 mg/m ³ 15 min
						STEL: 12 mg/m ³ 15 min

Biological limit values

List source(s):

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

Derived No Effect Level (DNEL) No information available

<u>R</u>	oute of exposi	ure	Acute	effects (loo	cal)	Acute effects (systemic)	Chronic e (loca	 Chronic (syste]
	Oral Dermal Inhalation	111	· .				 111			
	1.1	÷			÷.,		÷	141	÷	

Stainless Steel powder, 1	Type 450-	-									0
Predicted No Effect Conc PNEC)	centration	No infor	mation ava	ilable.			1				_
3.2. Exposure controls			:		:			:	:		
Engineering Measures None under normal use co	onditions.										
		· : .									
Personal protective equi Eye Protection	ipment	Wear sa	fety glasse	es with s	ide shields (or goggles	s) (Europe	ean standar	d - EN 166)	1.	
Hand Protection		Protectiv	ve gloves								
Natural rubber	See man	ough time ufacturers	Glove th	ickness	EU sta				omments equirement)		
Nitrile rubber Neoprene PVC	récomme	endations									
Skin and body protec	ction	Long sle	eved cloth	ing							_
	avoianig o	kin contami									
Respiratory Protectio	on	No prote Use a N are exce	ective equip IOSH/MSH eeded or if	IA or Eu irritation	needed und ropean Stan or other syn	idard EN 1	36 approv	ved respirat	or if exposu	re limits	
arge scale/emergency u	on use	No prote Use a N are exce Recomr	ective equip IOSH/MSH eeded or if	IA or Eu irritation i lter type	ropean Stan or other syn e: Particle fi	idard EN 1	36 approv	ved respirat	or if exposu	re limits	
arge scale/emergency u mall scale/Laboratory u	on use use	No prote Use a N are exce Recomr Maintain	ective equip IOSH/MSH eeded or if nended Fi adequate	IA or Eu irritation i lter type ventilati	ropean Stan or other syn e: Particle fi on	dard EN 1	36 approv	ved respirat	or if exposu	re limits	
arge scale/emergency u mall scale/Laboratory u	on use use controls	No prote Use a N are exce Recomr Maintain Prevent	IOSH/MSH eeded or if nended Fi adequate product fro	IA or Eu irritation i lter type ventilati om enter	ropean Stan or other syn e: Particle fi on	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat		re limits	
arge scale/emergency u mall scale/Laboratory u nvironmental exposure	on use use controls <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent	IOSH/MSH eeded or if nended Fi adequate product fro	IA or Eu irritation i lter type ventilati om enter LANE	ropean Stan or other syn a: Particle fi on ing drains.	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat		re limits	
arge scale/emergency u mall scale/Laboratory u nvironmental exposure 1. Information on basic	on use use controls <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent	IOSH/MSH eeded or if nended Fi adequate product fro	IA or Eu irritation i lter type ventilati om enter LANE	ropean Stan or other syn e: Particle fi on ing drains.	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat nced		re limits	
arge scale/emergency u mall scale/Laboratory u nvironmental exposure <u>1. Information on basic</u> hysical State ppearance dor dor Threshold	on use use controls <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent ON 9: PH and chemi Powder No inforr No data	IOSH/MSH eeded or if nended Fi adequate product fro <u>IYSICA</u> ical prope mation ava available	IA or Eu irritation i lter type ventilati om enter LANE	ropean Stan or other syn e: Particle fi on ing drains.	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat nced		re limits	
arge scale/emergency u mall scale/Laboratory u nvironmental exposure <u>.1. Information on basic</u> hysical State ppearance odor bdor Threshold lelting Point/Range oftening Point	on use use controls <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent ON 9: Ph and chem Powder No inforr No data No data No data No data	IOSH/MSH eeded or if nended Fi adequate product fro <u>IYSICA</u> ical prope	IA or Eu irritation i lter type ventilati om enter LANE	ropean Stan or other syn e: Particle fi on ing drains.	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat nced		re limits	
arge scale/emergency u mall scale/Laboratory u nvironmental exposure <u>1. Information on basic</u> hysical State ppearance dor dor Threshold leiting Point/Range oftening Point oiling Point/Range lammability (liquid) lammability (solid,gas)	on use scontrols <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent ON 9: PH and chem Powder No inforr No data No data No data No data No data No data	IOSH/MSH eeded or if nended Fi adequate product fro <u>IYSICA</u> ical prope mation ava available available available available	IA or Eu irritation ilter type ventilati om enter LANE	ropean Stan or other syn e: Particle fi on ing drains.	dard EN 1 nptoms ar lter 2	36 appro e experier	ved respirat nced			
Respiratory Protection Large scale/emergency un Small scale/Laboratory un Environmental exposure D.1. Information on basic Physical State Appearance Ddor Ddor Threshold Melting Point/Range Softening Point Boiling Point/Range Flammability (liquid) Flammability (solid,gas) Explosion Limits Flash Point Autoignition Temperature	on use controls <u>SECTIO</u>	No prote Use a N are exce Recomr Maintain Prevent ON 9: PH and chem Powder No inforr No data No data No data No data No data No data No data No data	IOSH/MSH eeded or if nended Fi adequate product fro <u>IYSICA</u> ical prope mation ava available available available available available available available	IA or Eu irritation ilter type ventilati om enter LANE rties	ropean Stan or other syn a: Particle fi on ing drains.	idard EN 1 nptoms an lter 2	36 approve experier	ved respirat nced			

Stainless Steel powder, Type 430-L

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Stainless Steel powder, Type 43	0-E				i to hold	on Date 27	200 202	-0
Decomposition Temperature pH Viscosity Water Solubility	No data available No data available Insoluble	ii						
Solubility in other solvents Partition Coefficient (n-octanol/v Vapor Pressure Density / Specific Gravity	No information availa water) No data available No data available	able	;••	.::	1	:		
Bulk Density Vapor Density Particle characteristics	No data available	hi e.	(Air = 1.0)		4.	11		
9.2. Other information	ar ist	9		÷			÷	
Molecular Formula	Fe:Cr:Si:C; 82.9:16.	5:0.5:0.02 wt%						
<u> </u>						: • •		
	SECTION 10: STA	BILITY AN	D REACTIV	/ITY				
10.1. Reactivity	None known, based	on information a	available		4.	11		
10.2. Chemical stability	Stable under normal	conditions.			.::		÷.,	
10.3. Possibility of hazardous re	actions							
Hazardous Polymerization Hazardous Reactions	No information availa None under normal p				11.		.11	
10.4. Conditions to avoid	Incompatible produc	ts. Excess heat.		::: :::	4.		::: :::	
10.5. Incompatible materials	None known.				.:*		÷	
10.6. Hazardous decomposition	products None under normal	use conditions.						
S S	ECTION 11: TOXIC	COLOGICA		ATION				
11.1. Information on hazard clas	ses as defined in Regul	<u>ation (EC) No 1</u>	272/2008		el.		111	
Product Information				1.			÷.,	
(a) acute toxicity; Oral Dermal Inhalation	Based on available o No data available No data available	data, the classifie	cation criteria a	ire not m				
Toxicology data for the component		.81 - 16.	: * *	.11	11.	:	.::	
Component	LD50 Oral		LD50 Derma		1 10	C50 Inhalatio	 on	1
Iron	7500 mg/kg (R	Rat)	-			-		
-								1
Silicon	LD50 = 3160 mg/kg	(Rat)	-			-		

(b) skin corrosion/irritation; No data available (c) serious eye damage/irritation; No data available (d) respiratory or skin sensitization; Respiratory or skin sensitization; No data available No data available (e) gem cell mutagenicity; No data available (f) carcinogenicity; Category 2. There are no known carcinogenic chemicals in this product (g) reproductive toxicity; No data available (h) STOT-repeated exposure; No data available (i) STOT-repeated exposure; No data available (j) aspiration hazard; No data available Symptoms / effects,both acute and known or suspected endocrine disrupting properties for human health. This product does not contain a known or suspected endocrine disruptors. 11.2. Information on other hazards. Endocrine Disrupting Properties Assess endocrine disruptors. Section 12: ECOLOGICAL INFORMATION 12.1. Toxicity. Contains a substances which are hazardous for the environment. 12.2. Persistence and degradability. Degradability Degradability Degradability Degradability No information available No relevant for inorganic substances. Contains substances known to be hazardous to the environment or not degradabile in war water treatment plant 12.3. Bioaccumulative potential No information available Component Iog Pow	ess Steel powder, Type 430-L	•/ •· = ·		A SHE			Revisio	on Date 27	-Dec-2020	
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Component log Pow Bioconcentration factor (BCF)	ioaccumulative potential	No information ava	ilable							
	Component	1 1	log Pow	<u> </u>		Bioc	oncentratio	n factor (BC	F)	Í
Chromium 1.03 - 1.22	Chromium						1.03 -	1.22		l

Stainless Steel powder, Type 430-L

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<u>12.4. Mobility in soil</u>	No info	ormation a	vailable						÷ : .	
12.5. Results of PBT and vPvB assessment	No dat	a availabl	e for asse	ssment.						
12.6. Endocrine disrupting properties	11.	: * *		111	111		111	:		
Endocrine Disruptor Information	This p	oduct doe	s not con	tain any kno	own or susp	ected end	docrine disr	uptors		
en la	· .	111				111	1		111	
<u>12.7. Other adverse effects</u> Persistent Organic Pollutant Ozone Depletion Potential				tain any kno tain any kno						

13.1. Waste treatment methodsWaste from Residues/Unused
ProductsWaste is classified as hazardous. Dispose of in accordance with the European Directives
on waste and hazardous waste. Dispose of in accordance with local regulations.Contaminated PackagingDispose of this container to hazardous or special waste collection point.European Waste Catalogue (EWC)According to the European Waste Catalog, Waste Codes are not product specific, but
application specific.
Do not flush to sewer. Waste codes should be assigned by the user based on the
application for which the product was used. Do not empty into drains.

		SECTI	ON 14: T	RANS	PORT IN	IFORMA	TION	1 1 1 1 1			
	IMDG/IMO 14.1. UN number	· •	egulated		· :				11		·:.
,	14.2. UN proper shipping nam 14.3. Transport hazard class(e 14.4. Packing group		1×1				÷.,		141	9.	, , , , , ,
	ADR	Not r	egulated								
	<u>14.1. UN number</u> <u>14.2. UN proper shipping nam</u> 14.3. Transport hazard class(e	e	1.1	.11			.*:		111	.*:	1
	14.4. Packing group			111				· .		1:1	· : .
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	14.5. Environmental hazards	No ha	azards ident	ified			.::		1.1	.::	:
	14.6. Special precautions for under the second seco	lk Nota	pecial preca pplicable, p					•			·
			111	÷			÷		141	÷	

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Stainless Steel powder, Type 430-L

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SECTION 15: REGULATORY INFORMATION

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

International Inventories

X = listed, Europe (EINECS/ELINCS/NLP), U.S.A. (TSCA), Canada (DSL/NDSL), Philippines (PICCS), China (IECSC), Japan (ENCS), Australia (AICS), Korea (ECL).

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Iron	231-096-4	-		X	Х	-	Х	Х	Х	Х	KE-2105
											9
Chromium	231-157-5	-		, X	, , X		X	Х	Х	X	KE-0597
and the second	11		1	11.						1.1	0
Silicon	231-130-8	-		X	Х	-	Х	Х	Х	Х	KE-3102
											9

Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

National Regulations

WGK Classification Water endangering class = non-hazardous to waters (self classification)

Component	Germany - Water Classification (VwVwS)	Germany - TA-Luft Class
Iron	nwg	
Chromium	nwg	Class III : 1 mg/m ³ (Massenkonzentration)
Silicon	'nwg	

Component	1	France - INRS (Tabl					1.1	
Iron		des maladies profess				G 94		
Chromium		Tableaux des maladies						
UK - Take note of Control of Sul	bstances Hazardous to H	lealth Regulations (COSHH) 20	02 and 20	05 Amendr	nent		
	ar ist		1.1	÷			÷:	
15.2. Chemical safety assessr	<u>nent</u>							
Chemical Safety Assessment/R	eports (CSA/CSR) are no	ot required for mixtu	res	.::	: : : .		.::	
	SECTION 16	6: OTHER INFO	ORMATIC	ON				
	4. 11						1.1	
Full text of H-Statements refer	rred to under sections 2	<u>2 and 3</u>						
H351 - Suspected of causing ca	incer							
H228 - Flammable solid				1.	11		÷	
		Logond						
		<u>Legend</u>						
CAS - Chemical Abstracts Service		TSCA - Unit	ted States To	xic Substar	nces Control	Act Section 8	8(b)	
		Inventory					. ,	
EINECS/ELINCS - European Invent			- Canadian D	omestic Su	ibstances Lis	t/Non-Domes	stic	
Substances/EU List of Notified Cher PICCS - Philippines Inventory of Ch		Substances	List anese Existin	a and New	Chemical S	ibstances		
IECSC - Chinese Inventory of Existi			ralian Invento					
KECL - Korean Existing and Evalua			w Zealand Inv				111	
WEL - Workplace Exposure Limit		TWA - Time	Weighted Av	verage				
ACGIH - American Conference of G			national Ager					

					SAFE							-
51	ainless Ste	el powder	, Type 43	30-L						Revisio	n Date 27	-Dec-202
RP LC NO	IEL - Derived E - Respirato 50 - Lethal C DEC - No Obs T - Persisten	ry Protectiv oncentratior erved Effec	e Equipme n 50% t Concentr	ation		L E P	redicted No D50 - Letha C50 - Effect OW - Partitio PvB - very P	I Dose 50% ive Concenti on coefficien	ration 50% t Octanol:\	Vater		
	1	: • •		1.	: * *		1	: * *		1	: * *	
Da	R - Europear ngerous Goo O/IMDG - Inte	ds by Road		0		Т	ransport Ass	ociation		tion Organization for the Preve		
Da OE	ngerous Goo CD - Organis	ds Code ation for Ec	conomic Co			ent A	hips TE - Acute T OC (volatile	Foxicity Estir	nate			
Ke	y literature	reference	es and so			1.		·				
	ps://echa.eu Ippliers safe					index, RTI	ECS					11.
	assification		edure us		ve the class asis of test d		for mixture	es accordi	ng to Re	gulation (E	C) 1272/20	08 [CLP]
	alth Hazard		.::		lation metho		11.	111	. • 1	1	: • •	. 41
En	vironmenta	al hazards	5	Calcu	lation metho	bd						
Ch	aining Advi nemical haza giene.		ness traini	ing, incorpo	rating labell	ing, Safety	y Data She	ets (SDS),	Personal	Protective E	Equipment	(PPE) an
	epared By		÷		ord Advance	ed Materia	ls					
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