

SAFETY DATA SHEET

.1		: • •				1			Date	Accesse	d: 25/08	/2023
·			1.1	н 1 - 1			н 1 - 1		Dat	e Revise	d: 10/01	/202
	1	100		1	1	, , ,	1	1.0		1	1	
SE	CTION	1. ID	ENT	IFICA [.]	TION							
	,: Luct Norro				111		.1	; * *	.1	.1	111	.1
Prod	luct Name #: 7758-9			ae		·			·			·
Rele	vant ident	ified us	ses of t	he subst	ance: S	scienti	fic resea	rch and	develo	opment	1.1	
	plier detai											
Stant	ford Advar	iced Ma	iterials				. ÷	: * *	.1	.) 1	:**	.1
	ail: sales@ (949) 407-8								·			
	ess: 2366											
				1				·		1	1	
Class	CTION sification o	f the su	bstance	e or mixtu	re in ac	cordan	ce with 2	9 CFR 1	910 (O		S) ···	÷
	Corr. 1C F	1.1		evere skir						1 	1 	
Eye I GHS	Dam. 1 H3	18 Cau	ses ser	ious eye	damage)			j.		: 11	
GIIS	507											.1
	e Tox. 4 H	302 Har	mful if :	swallowed	d.			¹	1		'	
Acute	e Tox. 4 H				J.							5.
Acute Haza		nerwise	classifi	ed No da	u. ta availa	able						-
Acute Haza GHS	e Tox. 4 H ards not otl label elen	nerwise nents, in	classifi Including	ed No da I precautio	u. ta availa onary st	able ateme	nts	'	. :	·	5	
Acute Haza GHS Haza	e Tox. 4 H ards not otl	nerwise nents, in ams	classifi Including	ed No da I precautio	u. ta availa onary st	able ateme	nts	'	. :	·	5	

		. '	1	1			1.1.1					
Signal word Dang	ger	·			·			·			1	
Hazard statemen	ts											
H302 Harmful if s	wallov	ved.	`	1 		·	1		1 	1		
H314 Causes sev	/ere sł	kin burr	ns and e	-	-							
Precautionary sta	itemer	nts								111		
P280 Wear prote IN EYES: Rinse o	-	-					-		ı.P305+F	P351+P3	38 IF	
lenses, if present	and e	asy to	do. Cont	inue rins	sing.	1 	1		1	1		1.
P309 IF exposed	or if y	ou feel	unwell:									
P310 Immediatel	y call a	a POIS	ON CEN	TER/do	ctor		111		.:	111		
WHMIS classifica	ation	1			1			1			1	
D2B - Toxic mate		using c	other tox	c effects	5							
E - Corrosive mat										1		
Classification sys	tem									111		
HMIS ratings (sca	ale 0-4	·)	.'	,	1	. '	ı		.'			
(Hazardous Mate	rials lo	dentifica	ation Sys	stem)	·	н 1 1.		1	н 1. т.	1. ¹	1.1	
HEALTH	1		1	1		1	·		1	·		· .
FIRE												
REACTIVITY	: • •		.:			.:			.:			
3												
0							1.1					
1, ;	1		1	1.1	, , ,	1	1		1	1 1		1
Health (acute effe	ects) =	3										
Flammability = 0			.:	: * *			111		.: .:	111		.1
Physical Hazard	= 1	·			·			·			·	
Other hazards												
Results of PBT a	nd vPv	/B asse	essment	1	, , ,	1 	1		1	1		1.
PBT: N/A												
vPvB: N/A	; · · ·	.1	1			.1		.1				
												:

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances	1. 	1. s.s.		1. A.		1	1.1		· .
CAS No. / Substance Name	:								
7758-94-3 Iron(II) chloride								.1	.:
Identification number(s):	н. 1. т.		 	¹	1			1	
EC number: 231-843-4	5	·	 	·			·		÷.

SECTION 4. FIRST AID MEASURES			.:		.:
Description of first aid measures	¹	1 			1 1
General information Immediately remove any clothing soiled by	the pro	duct.	1	1	
If inhaled:					
Supply patient with fresh air. If not breathing, provide artificial re	espiratio	n. Keep	patient v	warm.	j.
Seek immediate medical advice. In case of skin contact:		5		*	1
Immediately wash with soap and water; rinse thoroughly.	1		1	1	
Seek immediate medical advice.					
In case of eye contact:	: * *			:**	
Rinse opened eye for several minutes under running water. Cor	nsult a p	hysicia	n.		·
If swallowed:					
Seek medical treatment.	<u>.</u>		1	1	
Information for doctor					
Most important symptoms and effects, both acute and delayed				: • •	
Causes severe skin burns.	'	1	н 1 - 1		1
Causes serious eye damage.			1		
Indication of any immediate medical attention and special treatmediate					

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen chloride (HCl) Iron oxides Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protectiv									
Use personal protective equipm									
Ensure adequate ventilation	1	·		1	1		1	1	
Environmental precautions: Do	not allow	produc	t to ente	er drains,	sewage	e systen	ns, or othe	er water	
courses.					: • •				
Methods and materials for cont	ainment a	nd clea	nup:			·			1
Use neutralizing agent.									
Dispose of contaminated mater	ial as was	te acco	ording to	section	13.		·	1 	
Ensure adequate ventilation.									
Prevention of secondary hazard	ds: No spe						.:		
Reference to other sections			1			1. 			1
See Section 7 for information o	n safe har	ndling							
See Section 8 for information o							'		
See Section 13 for disposal info	ormation.		.:	.:	: * *		.1		.1

		. '	.'		. '	. '			
SECTION 7. HANDLING A	ND	STO	RAGE		'	н 1 - 1		1	
Handling			1	1		1	1		۰.
Precautions for safe handling									
Handle under dry protective gas.	1 1 1 1	.1	.:	1 1 1 1	.1	.:	: • •		.:
Keep container tightly sealed.	'	·			·			·	
Store in cool, dry place in tightly closed of	contain	ers.							
Ensure good ventilation at the workplace	'			1	1 1 - 1	1	1		1.
Information about protection against expl	losions	and fire	es: The pro	oduct is	s not fla	mmable			
Conditions for safe storage, including an	y incon	npatibili	ties			.:	111		. 1
Requirements to be met by storerooms a	and rec	eptacle	s: No spec	cial requ	uiremei	nts.		·	
Information about storage in one commo Store away from air.	n stora	ige facil	ity:	1		1	5	. :	۰.
Store away from water/moisture. Store away from strong bases.		.:	.1		.1	.a	; · ·	.1	.:
Store away from oxidizing agents.	'	1	1 1 1	'	1			1.1	
Further information about storage conditi This product is hygroscopic.	ions:St	ore und	ler dry iner	t gas.		1	1		۰.
This product is air sensitive.									
Keep container tightly sealed.									
Store in cool, dry conditions in well-seale	ed cont	ainers.	, , ,	' 	1 	, , ,		1.1	
Protect from humidity and water.	·		1	·		1	1		۰.
Specific end use(s) No data available									

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 face velocity of at least 100 feet per minute.

		1 1 1			111					
Control parameters	1.		1			1			1	
Components with limit value	es that requi	re moni	itoring a	at the wo	orkplace:					
7758-94-3 Iron(II) chloride (100.0%)	·			· · ·		1	1 		· · ·
REL (USA) Long-term value	e: 1 mg/m									
3										
as Fe		'	1			1. J. J.			1	
TLV (USA) Long-term value	: 1 mg/m	5		5	`		·	1		÷
as Fe	:	; • •				:	;		:	:
EL (Canada) Short-term val	ue: 2 mg/m									
3	1	'	1. j. j.		'				1	
Long-term value: 1 mg/m	5	·		1	1		·	1		·
3										
as Fe					1 1 1 1		.1	111		.1
Additional information: No d										
Exposure controls										
Personal protective equipme	ent	1		1.0	1		5	1		÷.,
Follow typical protective and	d hygienic p	ractices	for ha	ndling ch	nemicals.					
Keep away from foodstuffs,	beverages	and fee	d.					111		.1
Remove all soiled and conta	aminated clo	othing ir	nmedia	itely.		·			·	
Wash hands before breaks	and at the e									
Avoid contact with the eyes	and skin.	1		1.1	1		1	1.1		÷
Maintain an ergonomically a	appropriate v	working	enviro	nment.						
Breathing equipment: Use s	uitable resp	pirator w	/hen hig	gh conce	entrations	are pr	esent.	111		
Recommended filter device	for short ter	m use:	1			1. 			1	
Use a respirator with type P controls.	100 (USA) (jes as a b			eering		÷
Risk assessment should be	performed	to deter	mine if	airpurify	ring					
respirators are appropriate.	Only use ed	quipmer	nt teste	d and ap	proved u	nder a	ppropriat	e govern	iment	
standards.		¹	1 1	1 1 - 1		1 1		'	1	

, ,	,	1		i	ı		1	1			
Protection of hands:				·			1			1	
Impervious gloves											
Inspect gloves prior	to use.	1	1 		1 	·		`	1		
The selection of suit											
vary									: ' '		
from manufacturer t	o manufac	turer.		·		'	·			1	
Material of gloves N											
Penetration time of	glove mate	erial (in mir	nutes) 4	80	1	`			1		
Glove thickness 0.1											
Eye protection:				.:			.:				,
Tightly sealed gogg	les	н н н	¹		н 1 — 1		1. 			1	
Full face protection		1		ı	1	·	1	5			
Body protection: Pro											

	111			111	, : ,		111				.1	
SECTION	9. PH	YSIC			CHE	MICA	L PRO	OPEI	RTIES		1	
Information on b	basic phy	/sical a	nd cher	nical pro	perties	·	·		1	·		
Appearance:												
Form: Powder o	or beads	.:			. 1	.:						
Color: Off-white Odor: Odorless		1		'	·	1 1 - 1	¹	1		'	1	
Odor threshold:	No data	availab	ole.	1.		1 	1		1	·		
pH (60 g/l) at 20	°C (68 °	°F): 2.5										
Melting point/Me	elting ran	nge: 674	1.°C (12	245 [°] F)	, l		111					
Boiling point/Bo Sublimation tem								1			1	
Flammability (so						·	1		1			
Ignition tempera	ature: No	data a	vailable	;								
Decomposition	temperat	ture: No	o data a	available		.:	111					
Autoignition: No	data ava	ailable.		'				*		'	÷	

	1 1 1								
Danger of explosion: No data available.	'	·			·			1	
Explosion limits:									
Lower: No data available	·			1		1	1.1		· · ·
Upper: No data available									
Vapor pressure at 700 °C (1292 °F): 13.3	3 hPa	(10 mm	ı Hg)				1.1.1		
Density at 20 °C (68 °F): 3.16 g/cm	'	1	н 1 — 1		1	н 1 - 1		1	
3 (26.37 lbs/gal)	'	, , ,	1	1		1	1		÷.,
Relative density No data available. Vapor density N/A	;••	.:	,÷	111	.:	,÷	:**	.:	.:
Evaporation rate N/A	'	1			1.1		¹	1.1	
	·		1	·		1	·		·
Water at 10 °C (50 °F): 644 g/l									
Soluble			.:				111		
Partition coefficient (n-octanol/water): No									
Viscosity:	'	1	, , ,				· · · *	1	
Dynamic: N/A	·		1	·		1	1		1
Kinematic: N/A									
Other information No data available		.1	.:		.1				.1
		1 			1			1	: .

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored

according to specifications.

Possibility of hazardous reactions Reacts with strong oxidizing agents

Conditions to avoid No data available Incompatible materials:

	8											
Water/moisture		·			1			5		*	÷	
Bases												
Oxidizing agents	1 		1	1		1	1		1	1.1		· · ·
Hazardous decor												
Hydrogen chlorid	e (HC) I)	.:	:**			111	.1	.1	111	.1	
Iron oxide	¹	1	н 1. т.	¹	1			1	н 1 - 1		1	
	1	1 1 1	1	1		1. 	1	н 1 — 1	1	1		·
SECTION 1	1. T	ΟΧΙ	COLC)GICA	AL IN	IFOR	ΜΑΤΙΟ	ON				
	; • •			: * *			111	.1		; · · ·	.1	.1
Information on to		-										
Acute toxicity:	'	·		· · · ¹	1		· · '	1		· · · '	·	
Harmful if swallov	wed.		1	·		1	1		1	1		1
Swallowing will le	ead to	a stron	g corros	ive effec	t on mo	outh and	throat a	nd to th	e dange	r of perfo	ration	
of esophagus and	distom	nach.	.:				111	.1	, i		.:	į.
The Registry of T												
substance.	'	·	, , ,	'	1		*	`	н н н	1.1 ¹	<u>'</u>	
LD/LC50 values	that ar	e relev	ant for cl	lassificat	ion:	1	1		1	1.1		۰.
Oral LD50 450 m	g/kg (rat)										
Skin irritation or o	orrosi	on: Ca	uses sev	vere skin	burns.		: * *	.1		: * *	.:	.:

Eye irritation or corrosion: Causes serious eye damage.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this substance.

Carcinogenicity: No classification data on carcinogenic properties of this material is available from the

EPA, IARC, NTP, OSHA or ACGIH.

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: The Registr contains	y of To	xic Effe	ects of Che	emical S	Substar	nces (RTE	CS)	1
multiple dose toxicity data for this substa	nce.	1	1. 	1		1	1 1	
Additional toxicological information: To the	ne best	of our	knowledge	e the ac	ute and	d chronic t	oxicity	of
this is a set of the s	; • •	.1					: • •	. 1
substance is not fully known.								·
SECTION 12. ECOLOGIC					, , ,		'	
Toxicity								
Aquatic toxicity: No data available	'	·			1			1
Persistence and degradability No data av								
Bioaccumulative potential No data availa	ble		1. 	1 		1	1 	
Mobility in soil No data available								
Additional ecological information:							: * *	
Do not allow undiluted product or large q	uantitie	es to re	ach groun	dwater,	water	courses, o	r sewa	ge
systems. Avoid transfer into the environment.	1	1	·				'	
Results of PBT and vPvB assessment PBT: N/A	;	.:		:	3	1		1
vPvB: N/A	¹				1	н 1 - 1		1
Other adverse effects No data available	·	1 1 1	5	1		5	1. 	

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods Recommendation Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION 14. TRAN	SPOR	TIN	FOR	MATI	ON	1			1	
UN-Number	1	1	, , ,	1	1		1	1		
DOT, IMDG, IATA UN3260										
UN proper shipping name				.1						,
DOT RQ Corrosive solid, acidio	c, inorgan	ic, n.o.:	s. (Iron	(II) chlori	ide)	·				
IMDG, IATA CORROSIVE SOL	LID, ACID	IC, INC	ORGAN	NIC, N.O.	S. (Iron(II) chlo	ride)			
Transport hazard class(es)	1	'	1	1	1		1	1.0		
DOT										
Class 8 Corrosive substances.										
Label 8			·			1			1	
Class 8 (C2) Corrosive substar	nces									
Label 8	·	·	1	`	·		1	1		
IMDG, IATA										
Class 8 Corrosive substances.										
Label 8		'				1	н 1. т.	¹	1	
Packing group	·	·	ı	·	·		·	·		
DOT, IMDG, IATA III										
Environmental hazards: N/A			;	:			:			
Special precautions for user W	arning: Co	orrosive	e subst	ances						
EMS Number: F-A,S-B	н н н	'	'	н 1 — 1	· · · '	1	н 1 - 1		1	
Segregation groups Acids	5	·		1	1		1	1		
Transport in bulk according to A	Annex II o	of MAR	POL73	/78 and t	the IBC (Code N	/A			
Transport/Additional informatio	n:	1 1 1 1		.1						
DOT										
Hazardous substance: 100 lbs,		1 1	1 1	1 I			1 1			
Marine Pollutant (DOT): No	1	1	, , ,	1. 	1.1		1	1		
UN "Model Regulation": UN326	60, Corros	sive sol	id, acio	lic, inorga	anic, n.o	.s. (Iroi	n(II) chloi	ride), 8, I		
	1		1					: • •		

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture											
GHS label elements, including precautionary statements											
Hazard pictograms					: • •	.1			.1		
GHS05 GHS07	· · · ·	'	·			·			·		
Signal word Danger											
Hazard statements		·	1 1 1		1		1	·			
H302 Harmful if swallowe	ed.										
H314 Causes severe skir	n burns and eye	e damaç	ge.			.1	.1	; • •	.1		
Precautionary statements	S.,	'	1. 			·			1		
P280 Wear protective gloves/protective clothing/eye protection/face protection.											
P305+P351+P338 IF IN I	EYES: Rinse ca	autiously	y with v	vater for s	everal	minutes	. Remove	contac	t		
lenses, if present and eas	sy to do. Contin	ue rinsi	ng.								
P309 IF exposed or if you											
P310 Immediately call a	POISON CENT	ER/doc	tor		'	1	н 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		1.1		
National regulations		·	ı.	1	1		1	·			
All components of this product are listed in the U.S. Environmental Protection Agency Toxic											
Substances Control Act (Chemical substa	ance Inv	/entory	·	: • •						
All components of this pr	oduct are listed	on the	Canad	ian Dome	stic Sul	ostance	s List (DS	L).SAR	A		
Section 313 (specific toxi	ic chemical listir	ngs) Su	bstanc	e is not lis	ted.	1	н 1. т.		1		
California Proposition 65		·		1	1		1	·			
Prop 65 - Chemicals known to cause cancer Substance is not listed.											
Prop 65 - Developmental	l toxicity Substa	nce is r	not liste	d.		.:					
Prop 65 - Developmental	l toxicity, female	e Substa	ance is	not listed							
Prop 65 - Developmental	l toxicity, male S	Substan	ce is n	ot listed.		·	н н н	'	1		
Information about limitation of use: For use only by technically qualified individuals.											
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. 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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	1	н н н				'			'			'	1	
		1 1	5		·	1 1	, , ,	'	1 1		5	*		÷
	,÷	.:	:	.1	.:	; • •	.:	.:	:	.:		:	.:	.1
*	5	н 1. н	'	5						1			1	, , ,
		*	1 		1	·		'	·		'	·		·
	,i	.:		.1	.:		.:	.:		.:			.1	.1
	5	н н н	¹	1		*	1		*	1			1	
	1			1	I.		1	1			1	1		