

SAFETY DATA SHEET

. :					1.1.1		· · · ·		Date	Accesse	ed: 25/08	/202
· · .			· · .		:	· · .			Dat	e Revise	ed: 12/11	/2022
1. 1.		1. 1. j.	14			14		1 1 (1)	1. 1.		1	14
SEC	CTION	1. ID	ENT	IFICA	TION							
	uot Nomo				1.1		¹	111		¹	111	
	uct Name #: 7790-4								•••			· · .
	ant ident		ses or 1	ine subs	tance: a	scienti	nc <u>r</u> esea	rcn and	aevei	opment	1.1	1.1
	lier detai		toriolo									
E-ma	ord Advar il: sales@	samate	rials.co	om	1.1.1		· · · ·			¹	111	
	949) 407-8					· · .			•••			· · .
	ess: 2366′											
(\mathcal{M}_{i})	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1.0	1		1.0	100		1.0	14	1. C	1.00	12
Class GHS(CTION sification o 07 Irrit. 2 H31	f the su	bstance	e or mixtu	ire in ac	cordan	ce with 2	9 CFR 1	910 (C		S)	۰.
	rrit. 2A H3	10 Cou	ses sei	rious eye	irritation	h						
Eye lı		19 Cau	000,001		Innation							
	Г SE 3 H3						, , , , , , , , , , , , , , , , , , ,			' 		.1
STOT		35 May	cause	respirato	ry irritati	on.						
STOT Hazai	Г SE 3 H3	35 May nerwise	cause classif	respirato ied No da	ry irritati Ita availa	on. able	, , ,	:	11. 1		:	··.
STOT Haza GHS	Γ SE 3 H3 rds not otl	35 May nerwise nents, ir	cause classif	respirato ied No da	ry irritati Ita availa	on. able	, , ,	:	11. 1		:	··.
STOT Hazar GHS Hazar	Γ SE 3 H3 rds not otl label elen	35 May nerwise nents, ir ams	cause classif ncluding	respirato ied No da g precaut	ry irritati ta availa onary si	on. able tateme	nts					

Hazard statements	S.			· · .			· · .				
H315 Causes skin	irritation.										
H319 Causes serie	ous eye irrita	tion.				- 			1		
H335 May cause r	espiratory irr	itation.									
Precautionary stat	ements	'									
P261 Avoid breath clothing/eye protect	-	-	t/vapors	s/spray	P280 We	ar∶prote	ective g	loves/prot	ective	· · .	
P305+P351+P338	IF IN EYES	: Rinse ca	utiously	with w	ater for se	everal n	ninutes	. Remove	contact	t	
lenses, if present a	and easy to c	do. Continu	ue rinsii	ng.							
P304+P340 IF INH	IALED: Rem	ove perso	n to fre	sh air a	ind keep c	comfort	able for	breathing	:** -	.1	
P405 Store locked	up.			· · .			· · .			· · .	
P501 Dispose of c	ontents/cont	ainer in ac	cordan	ce with	local/regi	onal/na	itional/i	nternation	al		
regulations.				'.			' ,			· .	
WHMIS classificat	ion										
D2B - Toxic mater						ı	. '				
Classification syste	em			· · .			· · .			•••	,
HMIS ratings (scal	e 0-4)		1	·		·	1.		·	·	
(Hazardous Materi	ials Identifica										
HEALTH							.:		: • •	.:	
FIRE											
REACTIVITY				· · ·			· · · .			11.	,
1 °., …°	na sta		1. 	1.		·	1. 1.		1		
0											
1.		'					.1		: • •	1	
Health (acute effec	cts) = 1										
Flammability = 0											
Physical Hazard =	1	¹	1	1.		1 1	14		1	14	
Other hazards											
Results of PBT an	d vPvB asse	ssment	; * *					1.1 ¹	; • •		
PBT: N/A				· · .						· · .	

V	F	D	v	В	:	Ν	J,	/	Δ	١	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances							.:	111	.:
CAS No. / Substar	nce Name	e:		· · .	н н н		1. 1.		11. 1
7790-45-6 Iridium			 1. 	1. 1.		·		 1	
Identification numb	per(s):								

EC number: 232-206-3

SECTION 4. FIRST AID MEASURES

Description of first a	id me	asures	5											
If inhaled:		.:		: • •	.1		1 1 1 1	.1		: * *	.1			
Supply patient with														
Seek immediate me	dical	advice	• • •	:				· · .		:	···.			
In case of skin conta	act:			1		'	1 		'	1 1	۰.			
Immediately wash w	/ith sc	oap an	d water; r	inse tho	oroughl	у.								
Immediately wash with soap and water; rinse thoroughly. Seek immediate medical advice.														
In case of eye conta	act:	••.			• • •	н 1 - 1	1	· · .			•••.			
Rinse opened eye for														
If swallowed:		' · .	· · · '	1		' 	·			1 	÷.,			
Seek medical treatn														
Information for doct	or		¹			· · · [·]					. 1			
Most important sym	ptoms	s and e	effects, bo	oth acut	e and c	lelayed:		· · .			۰۰.			
No data available		· .		·						·				
Indication of any imi														

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Hydrogen iodide (HI) Metal oxide fume Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protection	ive equipm	ent and		• • •						
Use personal protective equip	oment. Kee	p unpro				· · · .		1	· · .	
Ensure adequate ventilation				¹	1 1	1.		1	1.	
Environmental precautions: D	o not allow	materi	ial to b	e release	ed to the	enviror	nment wi	thout offi	cial	
permits.								111	.1	
Methods and materials for cor	ntainment a	and cle	anup: I	Ensure a	dequate	ventila	tion.			
Prevention of secondary haza	rds: No sp	ecial m	easure	es require	ed.					
Reference to other sections		1			1.00		¹	1.1	1	
See Section 7 for information	on safe ha	ndling								
See Section 8 for information	on persona	al prote	ection e	quipmer	nt.		¹	111		
See Section 13 for disposal in	formation.	1	11,		1	Ч.,		:	т.,	
the second second		·	1.		1	14		1	·	

SECTION 7. HANDLING AND STORAGE

Handling Precautions for safe handling

Keep container tightly sealed.		· · .							
Store in cool, dry place in tightly closed co									
Ensure good ventilation at the workplace.	' -		¹	1.1	14	¹	1.1	1	
Information about protection against expl									
Conditions for safe storage, including any						'			
Requirements to be met by storerooms a	nd rec	eptacle	s: No sp	ecial rec	quireme	ents.		· · .	
Information about storage in one commor	n stora	ige faci	lity: No d	lata avai	ilable				
Further information about storage condition									
Keep container tightly sealed.			'			'		1	
Store in cool, dry conditions in well-seale	d cont	ainers.							
Specific end use(s) No data available		· · · ,	1 1 1	1	· · .	, , ,		11	

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 avera	ge
face velocity of at least 100 feet per minute.	
Control parameters	
Components with limit values that require monitoring at the workplace: Not required.	· · .
Additional information: No data Exposure controls	14. 14.
Personal protective equipment	
Follow typical protective and hygienic practices for handling chemicals.	
Keep away from foodstuffs, beverages and feed.	· · .
Remove all soiled and contaminated clothing immediately.	· .
Wash hands before breaks and at the end of work.	
Avoid contact with the eyes and skin.	
Maintain an ergonomically appropriate working environment.	
Breathing equipment: Use suitable respirator when high concentrations are present.	· · .

		,	. '							
Protection of hands:	· · · · ·									
Impervious gloves										
Inspect gloves prior to us	se.	1		'	1	1.		1	1	
The selection of suitable										
vary			1	· · · ·			'	1.1.1		
from manufacturer to ma	nufacturer.		· · · .							
Eye protection: Safety gla		1								
Body protection: Protecti	ve work clothir	ng.	· .							
je sve sve		1.1.1 1	.:						.:	
SECTION 9. PH	YSICAL A		CHE	MICA		OPEF	RTIES		· · .	
Information on basic phy	sical and chen	nical pro	perties							
Appearance:						` .			· .	
Form: Powder	.:		1			1				
Color: Black			, '			. '			. '	
Odor: No data available	n na series de la constante de La constante de la constante de		· · · .	н 1 — 1		· · .			· · · .	
Odor threshold: No data	available.	·	· .		1	÷.,		1	1. 1.	
pH: N/A										
Melting point/Melting ran	ge: 100 °C (21	2 °F) ((d	lec))					; • •		
Boiling point/Boiling rang	e: No data ava									
Sublimation temperature	/ start: No dat	a availal	ble			· · · ,			11.	
Flash point: N/A	$M_{\rm eff} = -10^{10}$	1			1	÷.,		1	14	
Flammability (solid, gas)	No data availa	able.								
Ignition temperature: No	data available		. :	¹		.1		111		
Decomposition temperate	ure: No data a	vailable			:			;		
Autoignition: No data ava		,	,		,			,		
Danger of explosion: Pro	duct does not	present	an exp	losion ha	azard.	1	¹	1	14	
Explosion limits:										
Lower: No data available	1 1		. :	¹			¹	;**		
Upper: No data available	н., , , , , , , , , , , , , , , , , , ,	;	· · .		-	· · .			· · .	

						. '		. '	
Vapor pressure: N/A						· · .		· · .	
Density: No data available									
Relative density No data ava	ilable.			· · · ¹	1		 	14	'
Vapor density N/A	'		.:					.1	
Evaporation rate N/A									
Solubility in / Miscibility with	1 1 1					· · .		· · · .	
Water: InsolublePartition coe	efficient (n	-octanol	/water):	No data	availabl	е.			
Viscosity:						· .	 		
Dynamic: N/A			.:		; • •		 		
Kinematic: N/A									
Other information No data av	/ailable	}		н н н		· · .	 	· · .	
	1								

SECTION 10. STABILITY AND REACTIVITY

Reactivity No data available								
Chemical stability Stable under recomme							1	
Thermal decomposition / conditions to be	avoide	ed: Dec	ompositio	n will no	ot occu	r if used a	nd store	ed
according to specifications.								
Possibility of hazardous reactions No dar	ngerous	s reactio	ons known	1.1.1	.:			
Conditions to avoid No data available		· · .			· · .			
Incompatible materials: No data available								
Hazardous decomposition products:	1	14		1 	Т.		1 	
Hydrogen iodide (HI)								
Metal oxide fume								
	1							

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye irritation.

Sensitization: No sensitizing effects known.

Germ cell mutagenicity: No effects known.

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: May cause respiratory irritation.

Aspiration hazard: No effects known.

Subacute to chronic toxicity:

Exposure to iridium compounds may cause irritation to the eyes or respiratory tract. Toxicity of iridium

is not known. It is predicted to have toxicity similar to osmium

and platinum, two members of the same group.

Prolonged exposure to iodides may cause skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples,

boils, redness, black and blue spots, hives and blisters. Iodides are readily diffused across the placenta.

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. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity: No data availablePersistence and degradability No data available

Bioaccumulative potential No data available

Mobility in soil No data available

Additional ecological informat	ion:									
Do not allow material to be re										
Avoid transfer into the enviror	nment.	`		¹	1	14		1	14	
Results of PBT and vPvB ass										
PBT: N/A	'	; • •	.1		111			111		
vPvB: N/A			· · ·		1	· · .		;	· · .	
Other adverse effects No data	a available	- 	1. 1.	'	'		*	·		
SECTION 13. DISP	OSAL	CON	ISID	ERAT	IONS	.1			.1	
Waste treatment methods			· · ·		:	· · .			· · .	
Recommendation Consult offi	icial regula	itions to	o ensur	e proper	disposa	I		·	1. 1.	
Uncleaned packagings:										
Recommendation: Disposal n	nust be ma	ade acc	cording	to officia	l regulati	ons.		111	.1	
en la entre en									· · .	
SECTION 14. TRAI	NSPOF		IFOR		ON	14. 14.		·	÷.,	
Not a hazardous material for t	transportat	tion.								
UN-Number	¹			¹	111		1.1	111	.1	
DOT, IMDG, IATA None			· · .						· · .	
LIN proper chipping perce										
DOT, IMDG, IATA None	¹	*			1 1	14	1.1	1	14. 1	
Transport hazard class(es)										
DOT, ADR, IMDG, IATA	¹									
Class None			· · .		1	· · .		:	· · .	
Packing group	'	·	· .		·	· .		·		
DOT, IMDG, IATA None										
Environmental hazards: N/A		; • •			111					
Special precautions for user N	N/A									
Transport in bulk according to	Annex II	of MAF	RPOL73	8/78 and	the IBC (Code N	/A ¹		· · · .	

Transport/Additional information: Not dangerous according to the above specifications. DOT Marine Pollutant (DOT): No SECTION 15. REGULATORY INFORMATION Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements, including precautionary statements Hazard pictograms GHS07 Signal word Warning Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapors/spray P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65

Prop 65 - Chemicals known to cause cancer Substance is not listed.

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.

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.