

# SAFETY DATA SHEET

N 1. ID	ENT	IFICA								
N 1. ID	ENT	IFICA		1 - 1 - 1		1	· · .	· · · ·		
; · · ·										
	· · .									
		bles								
-88-5			:	.1		:			1	.1
ntified us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	develo	opment		· · · .
ails:										
anced Ma @samate	aterials rials.co	m		1 I.						· · .
7-8904			:	.1		:			:	1
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## SECTION 2. HAZARDS IDENTIFICATION

Class	ification of	the su	bstance	e or mixti	Jre			:		111		
Class	ification ac	cordin	g to Re	gulation	(EC) No	1272/2	2008					
The s	ubstance i											
regula	ation.	1 T T 1	•••			· · .	1.		с.,		; • •	
Class	ification ac	cordin	g to Dir	ective 67	7/548/EE	C or D	irective 1	999/45/E	C			
N/A		t,										
Inforn	nation con	cerning	particu	ular haza	rds for h	uman a	and envir	ronment:	· · .			
No da	ata availab	le										
Hazaı	rds not oth	erwise	classif	ied	: * *	· · .	1. 1.		· · .		111	
	ata availab											

			· · .					1 1 1					
Label e	elements	:						:	.1		i.		. '
Labelli	ng accordir	ng to F	Regula	tion (EC	) No 127	2/2008							
N/A	1		· · .			· · ,			· · .			11.	
Hazard	l pictogram												
N/A					i			1				· · · ·	
Signal	word	:						:			l'		
N/A	· .	,					· .						
Hazard	l statement		,	,		,	ı						
N/A	·	; • •		•			·						÷.,
	S classifica												
Classif	ication syst	tem								. 11	1		
HMIS r	atings (sca	ale 0-4	·) , , ,			· · .	1	, , ,	· · .	1		· · .	
(Hazar	dous Matei	rials Ic	dentific	ation Sy	stem)								
HEALT	Ή,	; • •	· · .	1.	1.1.1		1.			14		· · .	1.
FIRE						1		e <sup>r</sup>	:				
REACT	TIVITY	ı	,			,	·		,				
0, ,			· · .			· · .			11	1		11	1
0													
0, , ,			11.	· · .		· · ,	<u>''</u>		11	14.		11	
Health	(acute effe	ects) =	0								i.		. *
	ability = 0												
Physic	al Hazard =	= 0					1						
	nazards			• .			· .						
Results	s of PBT ar	nd vPv	/B asse	essment		I							
PBT:		:		. 11	:		111	: <sup>1</sup>		111	:		'
N/A			· · .	· .		· · .			· · ·				
vPvB:													
N/A		;	· · · .					111				· · .	

# SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		· · .	`	1	· · ·		1	· · ·	`		н., <sup>с</sup>
CAS No. / Substa	nce Na	ame:									
7439-88-5 Iridium		··		; • •	· · .		: ' '	· · .	14. 14.	: • •	··. ·
Identification num EC number:	ber(s):	1		1			: <sup>1</sup>	.:			.: .:
231-095-9			1		· · ·	1			1		· · · · ·
	1 1 1 1			1.1.1	· · · .		1-1-1	· · .		1.1.1	··
<b>SECTION 4</b>	. FIF		AID ME	EASL	JRES	<b>S</b>	:	.:		e.	.:
Description of first General information	t aid m on	easure	5		· · .	1	. :	•••	1) 1)		··
No special measu If inhaled:	res ree	quired.	14. 1	: ' '	· · .	1.	:**	··.	14. 1	: • •	··
Seek medical trea	itment	in case	of compla	aints.			1	.1			.:
In case of skin co Generally the proc	ntact: duct do	pes not	irritate the	skin.	· · .	1	. :	· · .	3		ч., <sup>с</sup>
In case of eye cor	ntact:		· .						•		
Rinse opened eye											
If swallowed:	:		. 11	1					. 11	1	.:
If symptoms persi	sticon	sult doc	tor.	1	· · .			· · .			
Information for do	ctor										
Most important sy	mptom	ns and e	effects, bo	th acut	e and d	elayed	: * *	· · .		: • •	··
No data available Indication of any i			dical atten							:	.÷
No data available			1	н н н		`:			1		···.

# SECTION 5. FIREFIGHTING MEASURES

Extinguishing media	.) 	1								
Suitable extinguishing a	gents									
Special powder for meta	ll fires. Do not	use wate	er.			· · .			11	
For safety reasons unsu	itable extingu	ishing ag	ents							
Water				14		· · · ·			11.	÷.,
Special hazards arising	from the subs	tance or i	mixture		1			e <sup>r</sup>		
If this product is involved										
Metal oxide fume		1 1		1			;			;
Advice for firefighters				1. 1.						
Protective equipment:			1	1			I			
No special measures re	quired.	:	.1					1		
						· · · ·	1		· · .	
SECTION 6. AC				CE M		IDE	2			
SECTION D. AU					EASU	JRE		111		÷.,

				1		1	1			
Personal precautions, protect										
Not required.				. * *						
Environmental precautions:			· · .			11. 1			· · .	
Do not allow material to be re	leased to t	he env	ironme	nt without	t official	permits	S.			
Do not allow product to enter	drains, sev	vage s	ystems	, or other	water c	ourses.	14			
Do not allow material to pene	trate the gr	ound c	or soil.			.:			.:	
Methods and materials for co	ntainment	and cle	eanup:							
Pick up mechanically.			· · · .							
Prevention of secondary haza										
No special measures required	1.		· · .		1.1.1	11.	14	111	11	
Reference to other sections		;			:			:		
See Section 7 for information	on safe ha	Indling								
See Section 8 for information	on person	al prote	ection e			· · .			· · ·	
See Section 13 for disposal ir	formation.		· · .			· · .	14. 14.		· · ·	,

		· · · .			11	
SECTION 7. HANDLING AND STORAGE	:*			÷		
Handling		· · .	· :		· · .	
Precautions for safe handling						
Keep container tightly sealed.	: • •	· · .		111	с. С.	÷.,
Store in cool, dry place in tightly closed containers.	. '					
Information about protection against explosions and fires:						
No special measures required.		· · · .			11.	1
Conditions for safe storage, including any incompatibilities						
Requirements to be met by storerooms and receptacles:		· · · .	14	111	11	· · .
No special requirements.	:			e e		
Information about storage in one common storage facility:						
Not required.		· · · ·				
Further information about storage conditions:						
Keep container tightly sealed.	1	· · · .		1	· · .	· .
Store in cool, dry conditions in well-sealed containers.					.1	
Specific end use(s)	ı		· .			· .
No data available			I		,	
na ann an Anna an Anna ann an Anna an A						•
SECTION 8. EXPOSURE CONTROLS/PE	RSC	NAL	•			
PROTECTION		· · .	1			
Additional information about design of technical systems:						
No further data; see section 7.		· · .		: "	· · .	
Control parameters						
Components with limit values that require monitoring at the work				;		
The product does not contain any relevant quantities of materials	s with o	critical v	values		· · · .	
that should be monitored at the workplace.						
Additional information:	: * *	· · .		111	11	•••
No data	:					

	· · ·	· · ·		· · ·			· · ·			· · · .	
Exposure controls	.:			. !		:	.:		÷		
Personal protective equi	pment										
Follow typical protective	and hy	gienic pra	actices	for har	ndling che	micals.				· · ·	
Maintain an ergonomical	llv appr	opriate w	orkina	enviror	nment						
Breathing equipment:										· · · .	
Not required.						:			÷		. '
Protection of hands:					· .						
Not required.	I			1	ı			,		1	
Penetration time of glove			utes)		· .			1.			
No data available				,			,	,		ı	
Eye protection:						÷			÷.		
Safety glasses		· .		· · .			· · .			· · .	
Body protection:											
Protective work clothing.	• • • •		; • •	· · .		:**	· · .		: 11	· · .	÷.,
· · · ·				,							
al de la compañía.									1		
SECTION 9. PH	YSIC			CHEI	MICAL		PEF	RTIES		· · .	
Information on basic phy	/sical a	nd chemio	cal pro	perties							
Appearance:				· · ·	1. 1.	; • •			: • •	· · .	1.
Form: Solid in various fo	orms			.:			.:				
Odor: No data available											
Odor threshold: No data	availat	ole.		· · · .						· · .	
pH: N/A											
Melting point/Melting ran	nge: 24	50 °C (44	42 °F)	· · .		: ' '	11.	1.	111	11.	
Boiling point/Boiling rang											
Sublimation temperature	e / start:	No data	availat	le							
Flammability (solid, gas)		:	1 1		1	1 1			1 1	· · ·	1
No data available.											
	· · · .							1. J.		· · · .	
Ignition temperature: No	data a	vailable		1							

	1 - 1 - 1			· · ·	· · ·		· · ·		1		
Autoignition: No data a	vailable	).					. :				
Danger of explosion: P	roduct o	does not	present	an exp	losion ha	azard.					
Explosion limits:	• • •						11.				
Lower: No data availab											
Upper: No data availab	ble										
Vapor pressure: N/A	.1		:	.:			.:				
Density at 20 °C (68 °F	=): 22.65	ō g/cm						· .			
3		,		,	,		,			,	
(189.014 lbs/gal)			: * *		1.						
Relative density				,							
No data available.			: '			1	.1		ť		. * *
Vapor density	··.			· · ·	· .		· · .			с.,	
N/AEvaporation rate											
N/A A	· · .		; • •		1. 1.	; • •		1. 1.	111		÷.,
Solubility in Water (H											
2	. '			, '			.1			. '	
O): No data available	· · · .			· · .			· · .	1		с. С.	
Partition coefficient (n-	octanol/	/water): N	lo data a	availab	e.						
Viscosity:	· · .	14	111	· · .		111	· · .		111	11. 1	÷.,
Dynamic: N/A	.:										
Kinematic: N/A											
Other information	· · ·										
No data available											
<u>and the states of the states </u>	11.						11			11	÷.
SECTION 10. S	STAB	BILITY	AND	RE		/ITY		. * *	÷.	.1	
Reactivity	· · ·		1 1 - 1	· · .	<b>`</b> ;		··.	`:		· · .	1
No data available Chemical stability	··.	· .	1 1 1 1	· · · .	·		· · .	· .		۰۰,	÷.,

Stable under recommended storage conditions.

Thermal decomposition	/ cond	itions to	be avoi	ded:		:					
Decomposition will not o											
Possibility of hazardous	reacti	ons		11.	1	н н н	· · .	1		11.	1
No dangerous reactions											
Conditions to avoid		14	; * *	· · · ·	14	1.1.1	· · .		111	11.	÷.,
No data available	.1		:			:			e e		
Incompatible materials: No data available	· · .	1		··.	1	. :	Ч.,	1		· · ·	1
Hazardous decompositi	on pro	ducts:	1 1 1 1	· · .	1. 1.	; • •	··.	1. 1.			۰.
Metal oxide fume											
	;			;			.:				
SECTION 11 T						MATIC				· · .	

# Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Powder: irritant effect Eye irritation or corrosion: Powder: irritant effect 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:

		1		,				1		,	
No effects known.			e.			3			e e e	j)	
Specific target organ s	svstem to	oxicitv - r	repeated	d expos	sure:						
No effects known.	1 A.	1				, , ,			, , ,	11	1
Specific target organ s			•	•							
No effects known.Aspi	iration ha	azard:				1			111	11	÷.
No effects known.			e l'			:		19	ť		.'
Subacute to chronic to	oxicity:	· .			· .			· .			
No effects known.											
Additional toxicologica	I inform	ation:			· .			· .			
To the best of our know	wledge t	the acute									
				:			1		. '	:	

# Toxicity Aquatic toxicity: No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Additional ecological information: Do not allow material to be released to the environment without official permits.

systems. Avoid transfer into the environment. Results of PBT and vPvB assessment PBT:

N/A

		· · .		1 1 1	· · · .			11.			11.	
vPvB:	: <sup>1</sup>				.;		: <sup>1</sup>			e <sup>r</sup>	.:	
N/A												
Other adverse eff	ects	· · .	1		· · · .			· · .	:		11.	
No data available	• •		·	111		·			·	1 - 1 - 1 1		
SECTION 1									. 11	÷		
Waste treatment			1	. :	11.	1			<b>`</b> :		· · .	1
Recommendatior	1 <sub>; · ·</sub>		1. 1.			· .						
Consult official re	gulatio	ns to e	ensure p	oroper dis	sposal.							
Uncleaned packa	gings:			:		111			111	e l'		. ' '
Recommendation	1:	· · .			· · .	· .						
Disposal must be												
···. ·.	1	· · · .	· .						· · ·	1	· · .	÷.,
<b>SECTION 1</b>	4. TI	RAN	ISPO	RT IN	IFOR	RMAT	ION					
UN-Number		· .		1 1 - 1	· · .			· · .			· · .	
DOT, ADN, IMDO	g, IATA											
N/A		· · .	1. 1.		· · .	14		· · .	14. 14.	1.1.1	· · .	÷.,
UN proper shippi	ng nam	ie,		. '	;		. '					
DOT, ADN, IMDO						ı	,					
N/A	1 1 - 1	· · .	1		· · .			· · .	1		11	1
Transport hazard	class(e	es)										
DOT, ADR, ADN,	IMDG	, IATA	Class		· · ·	14		· · .	14		۰.	÷.,
N/A		.:		:			1					
Packing group												
DOT, IMDG, IATA		· · · .			· · ,			· · .			11.	
N/A						· .						

Environmental hazards: N/A

Special precautions for user

N/A		:			:	.:		÷	.1		:
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code											
N/A	1			1	, , ,	· · · .	1			1	
	ort/Additio										
Marine	e Pollutant	(DOT)	: No						· · ·		

## **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regula	ations/le	egislatio	on specif	ic for the	substa	ince or m	nixture	· · .
National regulations								
All components of this product are listed	d in the	U.S. E	nvironme	ental Pro	tection	Agency	Toxic	. 1
Substances Control Act Chemical substance Inventory.								· · .
All components of this product are listed	d on the	e Canao	dian Don	nestic Su	bstanc	es List (E	DSL).	
SARA Section 313 (specific toxic chemical listings)								· · .
Substance is not listed. California Proposition 65	:	.1					ť	.1
Prop 65 - Chemicals known to cause ca	ancer	· · · .	1		· · · .	1		· · .
Substance is not listed.								
Prop 65 - Developmental toxicity	; • •	· · .	14	1.1.1 1	· · .	14	111	···.
Substance is not listed.								.:
Prop 65 - Developmental toxicity, femal								
Substance is not listed.	, , ,	· · .			· · .	1		· · .
Prop 65 - Developmental toxicity, male								
Substance is not listed.		11			· · .	1		· · .
Information about limitation of use:	:							.:
For use only by technically qualified ind	lividuals	6.						
Other regulations, limitations and prohil	oitive re	gulatio	ns					
Substance of Very High Concern (SVH		ording to	o the RE	ACH Reg	gulatior	ns (EC) N	lo. 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.
Substance is not listed.
REACH - Pre-registered substances
Substance is 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 theproduct with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.