

SAFETY DATA SHEET

:								; * *	Date	Accesse	d: 25/08	8/2023
11. 11.			· · .			· · ·			Dat	e Revise	d: 25/12	2/2022
	, i	· · · .						· · · .			19. 19.	
SEC	CTION	1. ID	ENT	IFICA								
; ⁱ Drodi									:			
	uct Name		-									
	#: 12037-	29-5										
Relev	ant iden	tified us	ses of t	he subs	stance: S	Scienti	fic resea	rch and	develo	opment	· · .	
	lier detai											
	ord Advar	1							÷			÷
	il: sales@ 949).407-											
	ess: 2366 ⁻								,	I	1	
								· · · ·			· · · .	
	CTION											
Class GHS(ification a	iccording	g to Re	gulation	(EC) No	1272/2	2008	···.	. :	.e	с. С.	
Eye Ir	rrit. 2A H3	819 <u>C</u> au	ses ser	ious eye	irritation	I. ,						
STOT	- SE 3 H3	35 May	cause	respirato	ory irritati			,		. '	ł	
Class	ification a	ccordin	g to Dir	ective 67	7/548/EE	C or D	irective 1	999/45/E	EC			··.
Xi; Irri												
	87: Irritatir											
		0					and envir	onment:				
N/A												
		. '			. 1			. *				

	1		.''		1		1 1 1	1				
Hazards not oth	nerwise cl	assified	d		· · ,			· · .			•••	
No data availat	ole											
Label elements	;	1		· · ·	1	1		1				
Labelling accor	ding to Re	egulatic	on (EC) N	o 1272	/2008			1				
The substance	is classifi	ed and	labeled a	accordir	ng to th	e CLP reg	Julation					
Hazard pictogra	amsGHS()7'						· · ·			· · .	
Signal word			:		1			ı	:			
Warning		н н		I	1 1		1	1 1	,			
Hazard stateme	ents											
H319 Causes s	erious ey	e irritat			ï	,			,			
H335 May caus	se respira	tory irri	tation.					· · .			· · .	
Precautionary s	statement	S		•••			· · .		.1	· · .		
P261 Avoid bre	athing du	st/fume	e/gas/mist	t/vapor:	s/spray							
P280 Wear pro	tective glo	oves/pr	otective c	lothing	/eye pr	otection/fa	ace prot	ection.		; · ·		
P305+P351+P3	338 IF IN	EYES:	Rinse ca	utiously	/ with w	vater for se	everal n	ninutes	. Remove	contact		
lenses, if prese	nt and ea	sy to de	o. Continu	ue rinsi	ng.		, '	· · .		. '	· · .	
P304+P340 IF	INHALED): Remo	ove perso	n to fre	sh air a	and keep (comfort	abla for	1			ļ
			•				Jonnon		breathing	- 11		
P405 Store loc	ked up.		·				Jonnona		breathing	J. **.		
P405 Store loci P501 Dispose o												
	of content	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al	a".	
P501 Dispose of regulations.	of content	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose or regulations.	of content	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s	of content ication aterial cau vstem	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classified D2B - Toxic matrix	of content ication aterial cau vstem	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s	of content ication aterial cau ystem scale 0-4)	s/conta	ainer in ac	cordan	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s HMIS ratings (s (Hazardous Ma HEALTH	of content ication aterial cau ystem scale 0-4) aterials Ide	s/conta	ainer in ac her toxic e	effects	ice with	local/regi	onal/na	tional/i	nternation	al		ar ar ar
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s HMIS ratings (s (Hazardous Ma HEALTH	of content ication aterial cau ystem scale 0-4) aterials Ide	s/conta	ainer in ac her toxic e	effects	ice with	ı local/regi	onal/na	tional/i	nternation	al		er er er
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s HMIS ratings (s (Hazardous Ma HEALTH FIRE REACTIVITY	of content ication aterial cau ystem scale 0-4) aterials Ide	s/conta	ainer in ac	effects	ice with	ı local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s HMIS ratings (s (Hazardous Ma HEALTH FIRE REACTIVITY	of content ication aterial cau ystem scale 0-4) aterials Ide	s/conta	ainer in ac	effects	ice with	local/regi	onal/na	tional/i	nternation	al		
P501 Dispose of regulations. WHMIS classifi D2B - Toxic ma Classification s HMIS ratings (s (Hazardous Ma HEALTH FIRE REACTIVITY	of content ication aterial cau ystem scale 0-4) aterials Ide	s/conta	ainer in ac	effects	ice with	ı local/regi	onal/na	tional/i	nternation	al		ari ari ari ari ari

0					· · .			· · .			··.	
Health (acute ef	fects) =	= 1										
Flammability = 0)			· · .			11.		.:	11		
Physical Hazard Other hazards		;		;**			:	;			, î	
Results of PBT a	and vP	vB ass	essment								· · .	
PBT: N/A	··.		.1	· · .		.:	··.		.1	··.		.:
vPvB: N/A		:		;**	:			;	. '		÷	
											· · .	

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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SECTION 4. FIRST AID MEASURES

Description of first aid measures If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice. In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

				:							
If swallowed:	di ser						· · .			··.	
Seek medical treat	ment.										
Information for doc	tor			, , ,		11.			11		.:
Most important sym	nptoms ar	nd effects	, both ac	ute and	delayed	ł					
No data available				:		111				:	. '
Indication of any im	mediate	medical a	ittention a	and spe	cial trea	tment ne	eded			· · .	. '
No data available	· · ·	.1	· · .		.1	··.			· · .		.:
SECTION 5.	FIRE	FIGHT	ING N	IEAS	SURE	S	:				. '
Extinguishing medi	a			· · .			· · .			· · · .	
Suitable extinguish	ing agent	S	· · .					.:	÷.,		.:
Product is not flam											
Special hazards ari	sing from	the subs	tance or	mixture	•		:		111	:	. • *
If this product is inv											
Metal oxide fume				· · ·			· · ·			· · .	
Advice for firefighte	rs							.: .:			
Protective equipme	ent:										
Wear self-containe	d respirat	or.		:		111	e la compañía de la c		; * *	:	

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow material to be released to the environment without official permits. Do not allow product to enter drains, sewage systems, or other water courses.

Do not allow material to penetrate the ground or soil.

			I					. '
Methods and materials for containment and clea	anup:			· · .			· · .	
Ensure adequate ventilation.								
Prevention of secondary hazards:	1		· · ·			· · · .		. 1
No special measures required.								
Reference to other sections							1	
See Section 7 for information on safe handling	· · .			· · .			· · .	
See Section 8 for information on personal prote	ction e	quipment.			1			
See Section 13 for disposal information.	1 1		· · .			···,		. '
an	:						: '	

SECTION 7. HANDLING AND STORAGE

Handling	···		· · .		.:	· · .			· · · .	
Precautions for s	afe handlir	ng								
Keep container ti	ghtly seale	ed.	111			111			:**	÷
Store in cool, dry	place in ti	ghtly close	d contain		_					
Information about	t protection	n against e	xplosions	s and fi	res:					
The product is no	ot flammab	le						1	· · · .	
Conditions for sa	fe storage,	including	any incor	npatibi	lities					
Requirements to	be met by	storeroom	s and rec	ceptacle	es:	111	1		111	÷.
No special requir	ements.			· · ·			· · ·			· · .
Information about	t storage ir	n one com	mon stora	age fac	ility:					
Store away from	oxidizing a	igents.				11		1		
Further information	on about s	•								
Keep container ti	ghtly seale	ed.				111				
Store in cool, dry	conditions	s in well-se	aled cont	ainers.			11. 1			11. 11.
Specific end use(No data available		j) L	· · .	, , ,	.1	· · .	, , ,	.:	···,	1 1 1

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SECTION 8. EXPOSURE CONTROLS/PERSONAL

PROTECTION	. '	· · ·		. '	· · .	
Additional information about design of technical systems;	с.,			· · .		
Properly operating chemical fume hood designed for hazardous of	chemic	cals and	ł			
having an average face velocity of at least 100 feet per minute.	: • •	e la compañía de la c		111	e ¹	
Control parameters	. '					
Components with limit values that require monitoring at the work				i.		
The product does not contain any relevant quantities of materials	s with c	ritical v	alues	· · .		
that should be monitored at the workplace.						
Additional information:				111	t.	
No data		· · .			· · .	
Exposure controls						
Personal protective equipment						
Follow typical protective and hygienic practices for handling chen	nicals.		,			
Keep away from foodstuffs, beverages and feed.	,			i.	:	
Remove all soiled and contaminated clothing immediately.		· · .			··.,	
Wash hands before breaks and at the end of work.						
Avoid contact with the eyes.						
Avoid contact with the eyes and skin.	; • •			; • •		
Maintain an ergonomically appropriate working environment.						
Breathing equipment:		11.	. 11		· · .	
Use suitable respirator when high concentrations are present.	· · .		.1	· · .		
Protection of hands:						
Impervious gloves				111	e la compañía de la c	
Inspect gloves prior to use.						
Suitability of gloves should be determined both by material and q						
by: .: .: .: .: .: .:	· · .		, i			
manufacturer.						
Penetration time of glove material (in minutes)	; • •	t.		111	t.	
No data available		· · .				

				,					
Eye protection:	· · · · ·			· · ·		· · .	 	· · .	
Safety glasses									
Body protection:		.:	· · · .				11.		.1
Protective work clot	•								

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and	chemical pro	operties	Appearan	ce:					
Form: Powder or solid in various for	orms						; • •	:	
Color: Black									
Odor: No data available					11.			11.	,
Odor threshold: No data available.	· · · ,			· · .		.:			,
pH: N/A									
Melting point/Melting range: 2500	°C (4532 °F)			111			:**	e ⁿ	
Boiling point/Boiling range: 4200 °	C (7592 °F)								
Sublimation temperature / start: No	o data availa	ble				, ''			
Flammability (solid, gas)				· · .		.:	11		
No data available.									
Ignition temperature: No data avai	lable	:			:		111	:	
Decomposition temperature: No da	ata available				· · .				
Autoignition: No data available.									
Danger of explosion: No data avai	lable.			11.		.:			,
Explosion limits: Lower: No data available	11	;		; * *				t.	
Upper: No data available		· · · .			· · .			11. 11.	,
Vapor pressure: N/A Density: No data available	94. 1	, , ,	.:	···.		.:	··.		,
Relative density No data available.		:		:	a' -		111	a".	
Vapor density		· · · .			· · .				

	:	. '		1							
	· · · ,			· · .			· · .			· · · .	. •
Evaporation rate											
N/A		.1	· · · .	1 1 - 1		11.			11.		
Solubility in Water (⊢ 2	l ;'			;		1 - 1 - 1 1					
O): No data available	9			· · .			· · .			с. С.	. '
Partition coefficient (Viscosity:	n-octano	l/water):	No data	availab	le.			.1			.:
Dynamic: N/A Kinematic: N/A	ť			:					111	i.	
Other information	· · · ·			· · .			· · · ·			11	
No data available		.1	· · · ,			· · .			· · .	. :	.1

SECTION 10. S	TAE	BILITY	ANC			/ITY	1			÷.	
Reactivity	· · .			· · · .			· · .			··	
No data available		.:	· · .		.:	· · ,		.1	· · .		
Chemical stability											
Stable under recommen	ided st	torage co	onditions			111			111	t.	
Thermal decomposition	/ cond	litions to	be avoid	led:							
Decomposition will not o	occur i	f used ar	nd stored	accor							
Possibility of hazardous	reacti	ons	· · .	, , ,	.:	· · · .		.1	11		
Reacts with strong oxidi	zing a	gents									
Conditions to avoid	:		111			; · · ·	1		111	i.	
No data available	· · .						· · .			· · .	
Incompatible materials: Oxidizing agents		.1	···,			۰۰,		.:	··.,		
Hazardous decompositi Metal oxide fume	on pro	ducts:		1 1 1		;••	;		;	:	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicologi	ical effe	ects	11		1	· · .			· · .				
Acute toxicity:													
The Registry of Toxic Ef	fects of	Chemical	Substa	ances (RTECS) c	ontains	acute	toxicity da	ita for	:			
components in this produ	uct.												
LD/LC50 values that are	releva	nt for class	sificatio	n:									
No data			11.			· · .			· · .				
Skin irritation or corrosion: May cause irritation													
May cause irritation							1		: ' '	1			
Eye irritation or corrosion	n;						· · .			··.			
Causes serious eye dam													
Sensitization:				1 1				. '	· · .				
No sensitizing effects kn	own.			. '									
Germ cell mutagenicity:							1			1			
The Registry of Toxic Effects of Chemical Substances (RTECS) contains mutation data for this													
substance.		.:	· · .			· · .			· · .				
Carcinogenicity:													
No classification data on	carcino	ogenic pro	perties	of this	material is	s availa	ble fror	m the EPA	, IARC				
NTP, OSHA or ACGIH.													
Reproductive toxicity:	· · .		. '	· · ,		, '	· · .		. '	· · .			
No effects known.			• • .	, , ,		· · .			· · .				
Specific target organ sys	stem to	kicity - rep	eated e	exposur	e:								
No effects known.	:						:		: * *	:			
Specific target organ system toxicity - single exposure:													
May cause respiratory in	ritation.												
Aspiration hazard:			· · ·			· · .	1		11				
No effects known. Subacute to chronic toxicity:													
Subacute to chronic toxi	city:						1			ť			
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. ECOLOGIC		NFO	RMA	TION			; · ·	e ^r	
Toxicity		· · .			· · .			· · .	
Aquatic toxicity:		1	:		1	:			
No data available	,			,					
Persistence and degradability									
No data available									
Bioaccumulative potential	. '	· · · .			· · .	111		11.	
No data available	· · .			· · .			· · .		
Mobility in soil									
No data available	: • •				:			:	
Additional ecological information:				,					
Do not allow material to be released to t	the env	ironme	nt withou	it official	permits	5.		· · .	
Do not allow undiluted product or large	quantiti	es to re	each grou	undwater	, water	courses	, or sewa	ige	
systems.									
Avoid transfer into the environment.	; * *			1 1 1 1	:	$\mathcal{A}^{(1)}$		1	
Results of PBT and vPvB assessment									
PBT:		,							
N/A	· · · ,	, , ,	.:	· · · .			11		
vPvB:N/A									
Other adverse effects				111	i l		111	i i	
No data available					· · ·				

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

										. '
Consult official regulations to	o ensure p	proper dis	posal.			· · .			· · .	
Uncleaned packagings:										
Recommendation:			1	.:			.:	11.	1	
Disposal must be made acc	ording to d	official reg	gulatior	IS.	111					
			;	.'					:	
SECTION 44 TDA						· · .			۰.	
SECTION 14. TRA							.:			
UN-Number										
DOT, ADN, IMDG, IATA									i.	
N/A										
UN proper shipping name						· · .			· · .	
DOT, ADN, IMDG, IATA		· · .		.:			.:			
N/A										
Transport hazard class(es)			:		111			:**	e'	
DOT, ADR, ADN, IMDG, IA	TA									
Class						· · ·			· · ·	
N/A				.:			.:	· · · .		
Packing group										
DOT, IMDG, IATA		1 - 1 - 1 1			1.1.1				t.	
N/A						· · .				
Environmental hazards:										
N/A			, , ,	.1	11		1	11		
Special precautions for user										
N/A		1.1.1	1						1	
Transport in bulk according	to Annex	II of MAR	POL73	/78 and	the IBC (Code			· · .	. '
N/A	!		ı.	:			:		ı	
Transport/Additional informa			1 1	.'			.'		1 1	
DOT				. •						
Marine Pollutant (DOT):	. '	,		.'			.'		1	
No						· · .			· · .	
						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. All components of this product are listed on the Canadian Domestic Substances List (DSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancerSubstance 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. **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 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	· · .	, , ,	2	···,	, , ,	.:	· · · .		.1	Υ,		.:
	: ¹			:			.'			ť		:	:	. '
	· · .						· · ·						··.	.'
· · .		.4	· · .	, , ,	2	···.	, , ,	.1	С.,		.1	Υ,		.:
	:		1 1 1 1	ť			:'			ť		:	ť	.*
	··.			· · .			· · ·			· · .			··.,	.*
		.4	· · .		.1	Υ.		.1	··		.÷	Υ.		.1
	÷		:**	e'			e'			a' -	d.		:'	.*
	· · .						· · .						· · .	.'
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