

SAFETY DATA SHEET

								111	Date	Accesse	d: 25/08	8/2023
1	5	:	1	5		1	1 	1	Dat	e Revise	d: 23/11	/2022
SEC	CTION	1. ID	ENT	IFICA								
	uot Nome							111			111	
	uct Name #: 77980-						·			·		
		-00-4										
	/ant iden		ses of t	he subs	tance: S	Scienti	fic resea	rch and	devel	opment		. * *
	lier detai											
Stante E-ma	ord Advar il: sales@			m	;**						111	
	949) 407 -				;	· .	1	:	· .	·	:	
	, ess: 2366											
	CTION									 1		
Class	ification a	accordin	g to Re	gulation	(EC) No	1272/2	2008					
GHS)2 Flame			·						ı		
Wate	r-react. 2	H261 Ir	o contac	t with wa	ater relea	ases fla	immable	gas,				
	ification a										,	
F; Hig	ghly flamn	nable		1		1	1		1	1	-	
	Contact v		er libera	ites, extre	emely fla	mmabl	e gases.					
	nation cor									,		
Not a	pplicable				111						: • •	
	rds not ot											
	· · ·						1		1	1		

No information known.		1		· .	·			·		· .	·
Label elements											
Labelling according to F	Regulati	on (EC) N	lo 1272	2/2008							
The substance is classi	fied and	l labeled a		-		-					
Hazard pictograms											
GHS02Signal word	`:	1			1			1		1	·
Danger											
Hazard statements				1	.'			. '			
H261 In contact with wa	ater rele	ases flam	mable	gas.		1.1					
Precautionary statemen	nts										
P231+P232 Handle und	der inert	gas. Prot	tect fro	m mois	sture.	1	1	1		1	÷.,
P280 Wear protective g	loves/pi	rotective o	clothing	g/eye p	rotection	n/face_pro	otectior	L			
P233 Keep container tig	ghtly clo	sed.									
P370+P378 In case of f	fire: Use	for extine	ction: C	CO2, sa	and, extir	nguishing	g powd	er. , , ,			
P402+P404 Store in a c	dry place	e. Store ir	n a clos	ed cor	ntainer.						
P501 Dispose of conter	nts/conta	ainer in ac	ccorda	nce wit	h local/re	egional/r	ational	/internati	onal		·
regulations.											
WHMIS classification											
B6 - Reactive flammable	e mater	ial				111			111		
Classification system		·		· .	·	:		5			
HMIS ratings (scale 0-4			ı	,			i.				
(Hazardous Materials Id	dentifica	tion Syste	em)				. * *				
Health (acute effects) =											
Flammability = 3			1 1 1						111		
Physical Hazard = 2	· .	·		`;	1			1			·
Other hazards											
Results of PBT and vPv			1.1.1								
PBT: Not applicable.											
vPvB: Not applicable.						1.,					
<u></u>								1. 		· .	·

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization: Substances	 		 			 . • *
CAS# Description:						
7440-70-2 Calcium	 				111	
7440-02-0 Nickel		·		5		•
Identification number(s):	,					
EC number: 231-179-5 Calcium	 		 			 . '
EC number: 231-111-4 Nickel						
100 million (100 m	 		 			

	1						
SEC	CTION	4 . I	FIRST	AID	MEAS	URE	S

Description of first aid measures
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm.
Seek immediate medical advice.
After skin contact
Immediately wash with water and soap and rinse thoroughly.
Seek immediate medical advice.
After eye contact
Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing
Seek medical treatment.
Information for doctor
Most important symptoms and effects, both acute and delayed
No further relevant information available.Indication of any immediate medical attention and special

No further relevant information available

treatment needed

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media		1	1		· .	1		· .	·
Suitable extinguishing agents									
Special powder for metal fires. Do no	ot use wate	er.							
For safety reasons unsuitable exting				;···			;		
Special hazards arising from the sub	stance or i	mixture	1		1	1.1		1	·
If this product is involved in a fire, the Calcium oxide	e following	can be	released	d: 					
Advice for firefighters									
Protective equipment:									
Wear self-contained respirator.			1 		1	1			÷.,
Wear fully protective impervious suit	•								

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equip	oment and	d emer	gency pro	ocedure	S		:	1
Wear protective equipment. Keep unp	rotected	person	s away.					
Ensure adequate ventilation								
Keep away from ignition sources				111			111	
Environmental precautions:			1			1		
Do not allow material to be released to	o the envi	ronme	nt without	t proper	govern	mental p	ermits.	
Do not allow product to reach sewage	system o	or any v	water cou	rse.				
Do not allow to penetrate the ground/s								
Methods and material for containment	and clea	ning u	p:					
Keep away from ignition sources.			1			1		
Ensure adequate ventilation. Do not flush with water or aqueous cle								
Prevention of secondary hazards: Keep away from ignition sources.								
Reference to other sections			1. 			1	-	1

	'			'		
See Section 7 for information on safe handling		· .	·	:	· .	
See Section 8 for information on personal protection equipment.	ı					
See Section 13 for disposal information.		. * *				
SECTION 7. HANDLING AND STORAGE	1		1		1	1
Handling Precautions for safe handling		. **				. '
Handle under dry protective gas.	; • •					
Keep container tightly sealed.						
Store in cool, dry place in tightly closed containers.	1		1			•
Ensure good ventilation at the workplace.						
Reacts violently with water						
Information about protection against explosions and fires:	; • •					
Protect from humidity and water.Conditions for safe storage, inclu		-		lities		
Storage	1					
Requirements to be met by storerooms and receptacles:						. '
No special requirements.						
Information about storage in one common storage facility:	111			111		
Store away from air.	1	· .	·		· .	
Store away from water/moisture.					,	
Further information about storage conditions:		. 11				
Store under dry inert gas.						
Keep container tightly sealed.	:					
Store in cool, dry conditions in well sealed containers.			1	-	· .	•
Protect from humidity and water.						
Specific end use(s)						
No further relevant information available.						
		· · · ·	· · · ·	1		

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. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: No data

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately.

Wash hands before breaks and at the end of work.

Maintain an ergonomically appropriate working environment.

Breathing equipment:

Use suitable respirator when high concentrations are present.

Recommended filter device for short term use:

Use a respirator with type P100 (USA) or P3 (EN 143) cartridges as a backup to engineering controls.

Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards.

Protection of hands: Impervious gloves

Check protective gloves prior to each use for their proper condition.

The selection of suitable gloves not only depends on the material, but also on quality. Quality will wary

from manufacturer to manufacturer.

Material of gloves	1	1	:		1	;	1	1	:	1	·
Nitrile rubber, NBR Penetration time of glov	(o motor	ial (in min									
480	e matei		ulesj								
Glove thickness									111		
0.11 mm	`: :			`:		1	`;	1	1		·
Eye protection: Safety g	glasses										
Full face protection	t	t.		1	,		1	1		1	
Body protection: Protect	tive wor	k clothing	-			; • •					
						:	· .	·	;	• :	·
SECTION 9. PH	IYSIC	CAL AI	ND C	HEN	MICAL	PRC) PEF	RTIES			
Information on basic ph		nd chemic									
General Information	iysical a										
	en in e el										
Appearance: Not deterr Form: Not determined		'			'		1	1		1	÷
Color: Not determined											. • *
Odor: Not determined											
Odor threshold: Not det	termined	1									
pH-value: Not determin	ed	1		· .	1	1	· .	1	1	· .	•
Change in condition	i.		ı	I		,	,				
Melting point/Melting ra	nge: No	t determin	ned	, 1 - 1 ,							. • •
Boiling point/Boiling ran	nge: Not	determine	ed								
Sublimation temperatur	e / start	: Not deter	rmined								
Flammability (solid, gas	eous): I	Not determ	nined		1			1		1	·
Ignition temperature: N											
Decomposition tempera		ot determi									
Auto igniting: Not deter	mined										
Danger of explosion: No		mined	1								
Explosion limits:	1	5	1		5	1	1	1	1		÷.,

Lower: Not determined			1			·			· .
Upper: Not determined									
Vapor pressure at 20 °C (68 °F): Not	determine	ed							. '
Density at 20 °C (68 °F): Not determi	ned								
Bulk density at 20 °C (68 °F): Not de	termined								
Relative density: Not determined		1	1	}	1	1.1			
Vapor density: Not determined									
Evaporation rate: Not determined		1	,		1	1			
Solubility in / Miscibility with Water: N	lot determ	ined							
Partition coefficient (n-octanol/water)	: Not dete								
Viscosity: Not determined			1			1			· .
dynamic: Not applicable									
kinematic: Not applicable									
Other information	111			111			:**		
No further relevant information availa		1							
		:	1			1			
and the second									. '
SECTION 10. STABILIT	Y AND) RE	ACTI\	/ITY					
Reactivity	:			: * *			: * *		
In contact with water releases flamm	able gase	s which	n may ign	ite spon	taneou	sly.			
Chemical stability	,	,		,			,		
Stable under recommended storage	conditions	5.			. * *				. '
Thermal decomposition / conditions t	o be avoid	ded:							
Decomposition will not occur if used	and stored	d accor	ding to s	pecificat	ions.		111		
Possibility of hazardous reactions			1		1	5			۰.
Contact with water releases flammab									
Conditions to avoid			. '						
No further relevant information availa	ble.								
Incompatible materials:									
Air ···		· .	1. de		1	1		1	۰.

	,			,					
Water/moistureHazardous decomposition	n prodi	ucts:	·			1			
Calcium oxide									
and the second second second second									
SECTION 11. TOXICOLOG	GICA		FOR	ΜΑΤΙΟ	N C				
Information on toxicological effects	:							· :	
Acute toxicity: No effects known.									
LD/LC50 values that are relevant for class									
Skin irritation or corrosion: May cause irr	itation								
Eye irritation or corrosion: May cause irri	tation			,			,		
Sensitization: No sensitizing effects know	vn.	1	1		1	1			
Germ cell mutagenicity: No effects know									
Carcinogenicity: No classification data or									
the		_							
EPA, IARC, NTP, OSHA or ACGIH.									
Reproductive toxicity: No effects known.			1		1	1		1	
Specific target organ system toxicity - rep	peated	expos	ure: No e	effecțș ki	nown.				
Specific target organ system toxicity - sir	ngle ex	posure	: No effe	cts knov	vn.				
Aspiration hazard: No effects known.	1 1 1 1			; • •			; • •		
Subacute to chronic toxicity: No effects k	nown.								
Additional toxicological information: To th	ne best	t of our				nd chroni			
this									
substance is not fully known.									
Carcinogenic categories									
OSHA-Ca (Occupational Safety & Health	n Admi	nistrati	on)						
Substance is not listed.		1	1			1			

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

	• • • • • • • • • • • • • • • • • • • •							1		
Aquatic toxicity:				1			5			
No further relevant in	nformation avail	able.								
Persistence and deg	radability	1.1.1								. '
No further relevant in										
Bioaccumulative pote	ential							111		
No further relevant in	nformation avail	able.		1. 		1	5			۰.
Mobility in soil	an an									
No further relevant in							1			
Additional ecological	information:									
General notes:										
Do not allow materia	l to be released	to the env	rironme	nt withou	ut proper	govern	mental p	ermits.		
Avoid transfer into th	e environment.									
Results of PBT and v	/PvB assessme	ent								
PBT: Not applicable.			1.1.1		111			111		
vPvB: Not applicable					,					
Other adverse effect	S		1		;					
No further relevant in	nformation avail	able.								. '
								111		
SECTION 13.	DISPOSA	_	_				5			· .
Waste treatment met	thods									
RecommendationCo	nsult state, loca	al or nation	al regu	lations to	ensure	proper	disposal.			. '
Uncleaned packaging	gs:									
Recommendation:										
Disposal must be ma	ade according to	o official re	gulatio	ns.			1		1	۰.
	and a set									. '
SECTION 14	TDANCD									

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UN-Number DOT, IMDG, IATA

							1					
UN1401	:	· :	·	:	1	·			1. 		· .	·
UN proper shipp	0											
DOT												
Calcium												
IMDG, IATA												
CALCIUM			1	:	`;	1			1	1		·
Transport hazar	d class	s(es)										
DOT			1			1			1			
Class												
4.2 Substances												
Label		1	1.1			1			1.1		1	·
4.3												
Class												
4.3 (W2) Substa	inces w	vhich, ii	n contact	with wa	iter, em	it flamma	able gase	es "				
Label												
4.3			1						1			
IMDG												
Class												
4.2 Substances	liable t	o spon	taneous c	ombust	tion.		111			111		
Label		1	·			·			1		1	·
4.3												
IATA												. '
Class												
4.3 Substances	which,	in cont	act with w	vater, e	mit flan	nmable g	ases.					
Label	1		·			1			1		1	·
4.3												
Packing group						. '			. '			. '
DOT, IMDG, IAT	ΓA											
II	,											
Environmental h	azards	: Not a	pplicable.			1 			1		1	·

Special precautic	ons for i	ISAL									
Special precautio									'		
Warning: Substa							-				
EMS Number:										 	. '
F-G,S-O											
Transport in bulk										 	
Not applicable.	1		1			1			1		۰.
Transport/Additic	onal info	rmatio	n:							 	, ,
Marine Pollutant	(DOT):									 	
No											
UN "Model Regu	lation":	`: `:	1	}	1	1 1		`: `:	1	1	• .
UN1401, Calciun	n, 4.3, II									 	. '

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulati	ons/leg	islation	specific fo	or the s	ubstan	ce or mixt	ure	
National regulations								
All components of this product are listed i	in the U	.S. Env	vironmenta	al Prote	ction A	gency To	kic	
Substances Control Act Chemical substan	nce Inv	entory.		; * *				
All components of this product are listed of	on the (Canadia	an Domes	tic Sub	stances	s List (DSL	_).	•
SARA Section 313 (specific toxic chemica	al listing	gs)						
Substance is not listed.								
California Proposition 65								
Prop 65 - Chemicals known to cause can	cer			1 1 1				
Substance is not listed.	-		1			1	:	
Prop 65 - Developmental toxicity								
Substance is not listed.			1		i.			
Prop 65 - Developmental toxicity, female								
Substance is not listed.								
Prop 65 - Developmental toxicity, male	1		1. 	1	1	1	1	1

Substance is not listed.			1		1	1				
Information about limitation of use:										
For use only by technically qualified in	dividuals	, ** 5_						. * *		
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.		1	·			5		1		
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.			1		1	1		1		
REACH - Pre-registered substances										
Substance is listed.		,	,			'				
Chemical safety assessment:										
A Chemical Safety Assessment has not been carried out.										
			1.00			1.0		1		

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.