SA	FETY	DAT	SHE	ET						Revision Date	Version (
					. :	-: :			1.	Print Date		
			· · · · ·	the sub	stance	/mixtu	ire and	of the	comp	any/under	taking	
1.1	Product		ers			I	1					
	Product r	name	• ;•	Pras	eody	mium	(III) c	hloric	le ,		1.	
				,		,	,					
	CAS-No.		:	10361	-79-2							
1.2	Relevan	t identi	fied uses	s of the	substa	ince or	mixtur	e and u	ises a	dvised aga	inst	: .
	Identified			Labora						-		
	·									141		
1.3	Details	of the s	upplier o	of the sa	fety d	ata she	et					
	Company	/ :: :*	· · · /	Stanfo Address Lake Fore	2366	1 Birtch	er Dr.,	.1		.::	.4	
	Telephor Fax	ie :		(949)40 (949) 8			.:		1. ₁	1.1	:	
1.4	Emerge	ncy tele	phone									
	Emergen	cy Phone		(949) This told			ric avail	ablo 24	bourc	per day, 7	dave no	r
	÷		· _::V	week.)	priorie	, '			i i u i s	per day, 7	uays pe	
	TION 2: H											
2.1	Classific	ation of	f the sub	stance	or mix	ture	.:		֥;	1.1	: ' '	1
	GHS Cla	ssificati	ion in ac	cordanc	e with	29 CF	R 1910	(OSHA	HCS)			
	Eye irrita	ition (Ca	tegory 2A	A), H319			· .					
			of the H-S					•				
2.2			ents, ind	cluding	precau	itionar	staten	nents	: · `	.81		1
	Pictograr	n										
	Signal W	ord		Warni	na '					:.:		
	Hazard s				-							
	11210		• •	Cause	ș serio	uș eye i	rritation.	·				
		onary sta	itement(s	,								
	P264					-	y after h	-				
						· .	· .				Page 1 o	sf d

P280Wear eye protection/ face protection.P305 + P351 + P338IF IN EYES: Rinse cautiously with water for Remove contact lenses, if present and earlinging

P337 + P313

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

in in di_n in dire

1	Substances								
	Formula	:	Cl₃Pr						
	Molecular weight	:: :	247.27 g/mol			111	11		1
	CAS-No.	:	10361-79-2						
	EC-No.	:	233-794-4						
	Component			Class	ification			Concentra	tion
	Praseodymium tri	chlorid	le		,	· · ·			
				Eye I	rrit. 2A;	H319		<= 100 %	5
		1.1		11		÷.,	11		
		1.1							
				ned in this	Section.	see Se	ction 1	6.	
	For the full text of th			ned in this	Section,	see Se	ction 1	6.	

SECTION 4: First aid measures

	T DCS	heiden		-aid mea	Suies		'	111	÷			÷
		eral adv									M	
		of danger		Show this			data sne		aoctor	' în atten	aance.™o	ve
	If bre	haled eathed in ult a phy	i, move vsician.	person in	to fresh	air. If r	iot breath	ning, give	e artifici	al respir	ation.	
		ase of sl n off with		tact nd plenty	of wate	r. Consı	ult a phys	sician.				
				t act h plenty o								÷.,
		vallowe	-	by mouth	to an u	nconscio	ous perso	n. Rinse	mouth	with wat	er. Consu	It :
		/sician.	iyening	by mouth					mouth			
	-											
4	1.2 Mos The	t import nost imp	ortant	knöwn syr							(see sect	ion
	I.2 Mos The 2.2) I.3 Indi	t import nost imp and/or ir cation o	ortant n section f any i n	knöwn syr n 11 mmediate	nptoms e medic	and effe	ects are on $ntion an$	described d specia	l in the	labelling ment no		ion
	I.2 Mos The 2.2) I.3 Indi	t import nost imp and/or ir cation o	ortant n section f any i n	known syr n 11	nptoms e medic	and effe	ects are on $ntion an$	described d specia	l in the	labelling ment no		ion
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	 H.2 Most The 12.2) H.3 Indi No d 	t import most imp and/or ir cation o ata availa	oortant n section f any i able	known syr n 11 mmediate	nptöms e medic	and eff	ects are o	described	l in the	abelling	eeded	н, Н.
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4	 H.2 Most The 12.2) H.3 Indi No d 	t import most imp and/or ir cation o ata availa	oortant i n section f any i able	known syr n 11 mmediate	nptoms e medic	and eff	ects are o	described	l in the	abelling	eded	н. Н.

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5.1	TION 5: Firefightir	-	S							
				1.1		1.1			1.1	
	Suitable extingui Use water spray, a	-		n, dry o	chemical o	or carbor	n dioxide	9.		
5.2	Special hazards a Hydrogen chloride praseodymium oxi	gas 👘	n the su	ıbstan	ce or mix	cture	÷.,	'	:**	÷.,
5.3	Advice for firefig Wear self-containe		apparat	us for f	irefighting	g if neces	ssary.			÷.,
5.4			la:							
SEC	TION 6: Accidenta	l release mo	easures	5				'		
6.1	1				ent and e		ncy pro	cedures		,
	Use personal prote gas. Ensure adequ For personal prote	ctive equipm ate ventilatio	nent. Av on. Avoi	oid dus	st formatio	on. Avoic	l breath			
6.2	Environmental p Do not let product			:•: :•:					1.1	
6.3	Methods and ma Pick up and arrang suitable, closed co	e disposal w	ithout c	reating		eep up a	nd shov	el. Keep	in	֥.
6.4	Reference to oth									
	For disposal see se	ection 13.		ŀ.,			÷.,			÷.,
SEC	TION 7: Handling	and storage				- 				
	Precautions for s	afe handlin		· · ·						. · .
		andling skin and eye nay result in	es. Avoi the for build be t	mation taken ir	of combu	stible du Ieration I	sts. The before a	potentia dditiona	al for processing	,]
	Precautions for s Advice on safe has Avoid contact with of solid materials r combustible dust f	andling skin and eye nay result in ormation sho tion agains	es. Avoid the form ould be t	mation taken ir nd exp	of combunto consid	stible du leration l	sts. The before a	potentia dditiona	al for processing	, J
	Precautions for s Advice on safe has Avoid contact with of solid materials r combustible dust f occurs. Advice on protect Provide appropriat Hygiene measure Handle in accordar breaks and at the	andling skin and eye nay result in ormation sho tion agains e exhaust ve es nee with good end of workd	es. Avoid the form buld be the t fire and ntilation d indust lay.	mation taken ir n d exp n at pla	of combunto consid Iosion ces where	stible du leration l e dust is	sts. The before a formed.	potentia dditiona	al for processing	, ,
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7.1	Precautions for s Advice on safe has Avoid contact with of solid materials r combustible dust f occurs. Advice on protect Provide appropriat Hygiene measure Handle in accordar breaks and at the For precautions see Conditions for sa Storage condition Keep container tight	safe handling skin and eye nay result in ormation sho tion agains e exhaust ve es nee with good e section 2.2 ife storage, ns htly closed in	es. Avoid the form ould be the t fire and ntilation d indust lay.	mation taken ir n at pla rial hyg i ng any	of combunto consid losion ces where jiene and y incomp	stible du leration l e dust is safety pr atibilitie	sts. The before a formed. ractice. es	potentia dditiona Wash ha	al for processing	, ;, ;,
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7.1	Precautions for s Advice on safe have Avoid contact with of solid materials r combustible dust f occurs. Advice on protect Provide appropriat Hygiene measure Handle in accordar breaks and at the For precautions see Conditions for sa Storage condition Keep container tig Keep in a dry place	safe handling skin and eye nay result in ormation sho tion agains e exhaust ve es nce with good e section 2.2 fe storage, ns htly closed in e.	es. Avoid the form build be the t fire and ntilation d indust lay. includi	mation taken ir nd exp n at pla rial hyg ing any	of combunto consid losion ces where giene and y incomp	stible du leration l e dust is safety pr atibilitie ed place.	sts. The before a formed. ractice.	wash ha	al for processing ands before Page 3 of	· · · · · · · · · · · · · · · · · · ·

Storage class

Storage class (TRGS 510): 13: Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance Form: powder
 b) Odor No data available
 c) Odor Threshold No data available
 d) pH No data available
 a) Molting point (range): 786 %C (1447 %E) lit
 - e) Melting Melting point/range: 786 °C (1447 °F) lit. point/freezing point

Page 4 of 8

		f)	Initial boiling point and boiling range	No data a	available		, , ,					
, e		g)	Flash point	()Not ap	plicable	1.1		11	1		1	
		h)	Evaporation rate	No data a	available							
		i)	Flammability (solid,	No data a	available							
۰.		; =)	gas)	No data r			111		1. T	111	1.	'
		j)	Upper/lower flammability or	No data a	avaliable							
			explosive limits								н 1. т.	
		k)	Vapor pressure	No data a	available							
. '		1)	Vapor density	No data a	available			1			1	
		m)	Density	No data a	available							
			Relative density	No data a	available							
		n)	Water solubility	No data a	available		1.1.1	1. 1.	1.1	: * *	÷.,	
		o)	Partition coefficient: n-octanol/water	No data a	available							
		p)	Autoignition temperature	No data a	available							
. '	. '	q)	Decomposition temperature	No data a	available							
		r)	Viscosity	No data a	available							
		s)	Explosive properties	No data a	available							
		t)	Oxidizing properties	No data a	available		,					
	9.2		her safety informatio data available	on ,	1 1 - 1			1 1 - 1				
	. '		an at at									
	SECT	ION	I 10: Stability and re	activity								
۰.	10.1		activity data available		1. 1.			14	¹		1. 1.	'
	10.2	Che Sta	emical stability ble under recommend	ed storage	conditions	5. · · ·				. :		
	10.3	Pos	ssibility of hazardou data available	s reaction	S							
	10.4		nditions to avoid and moisture.			, ' ,		. '			. '	. '
· .	10.5		ompatible materials		1. 1.	¹	1.1.1	1. 1.			1. 1.	*
	10.6		zardous decomposit		cts							
			he event of fire: see s		н 1 — 1	1 I 1		, , ,	1 1			
. '			an at at							Page 5	of 8	

<section-header> SECTION 1.1: roxicological information J.1. Information on toxicological effects Ante toxicity Orai: No data available Dermai: No data available Dermore in <i>on provintiation</i> Kin - Rabbit Sencore of an approximation of the sence of the senc</section-header>				 									
Acute toxicity Oral: No data available Inhalation: No data available LD50 Intraperitoneal - Rat - 1,318 mg/kg Skin corrosion/irritation Skin - Rabbit Serious eye damage/eye irritation Eyes - Rabbit Respiratory or skin sensitization No data available Gern cell mutagenicity No data available Carcinogenicity IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTF: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Spiration hazard No data available Catia available Stom As available Stom as to four knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence Stomach - Irregularities - B				-									
Orai: No data available Inhalation: No data available Dermal: No data available LD50 Intrapertoneal - Rat - 1,318 mg/kg Skin corrosion/irritation Skin - Rabbit Serious eye damage/eye irritation Eyes - Rabbit Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGH. NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGH. NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by ACGH. NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. Reproductive toxicity No data available Specific target organ toxicity - single exposure No data available Specific target organ toxicity - repeated exposure No data available 112 Additional Information RTECS: TU0175000 Ataxia., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Stomach - Irregularities - Based on Human Evidence		11.1		· · · ·	cicological	effects	S ,						
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ECT	ION 12: Ecological info	rmation							
2.1	Toxicity No data available								
2.2	Persistence and degrad No data available	dability							
2.3	Bioaccumulative poten No data available	tial		¹		14	¹	111	÷.,
2.4			1 1 - 1	· · ·					
2.5	Results of PBT and vPv PBT/vPvB assessment not conducted			cal safety	assessm	ent not	required	/not	
2.6	Endocrine disrupting p No data available	-							
2.7	Other adverse effects No data available			· · · '					
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ECT	ION 13: Disposal consid	derations	. '			. '	. '		
	Waste treatment meth	ods		1					
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Page 8 of 8