	ST	AN	FOF	RD								
		ANCE	d Ma	FERIA	ALS	· · ;			· · ;			
S	AFETY	DAT	A SH	IEE	т	• ; *		:		Revision Da Print Da	Version te 09/27/2 te 03/18/2	022
SE	CTION 1:	Identif	ication	of th	e substar	ice/mi	xture and	of the	comp	any/und	ertaking	
1.1	L Produc	t identi	ifiers		·.			1.			· · ·	
	Product	name		:	Dyspro	sium(III) chlo	oride	hexa	hydrate	Э , ,	
	CAS-No	•	ı	: 1	15059-52-	6				,		
1.2	2 Releva	nt iden	tified u	ses o	f the sub	stance	or mixtur	e and	uses a	advised a	gainst	
	Identifie	ed uses		:	Laboratory	v chemi	cals, Synthe	esis of	substa	inces	-	
		11. 1		. • .	11.			14. 1		141	11	
1.3	B Details		supplie		-							
	Compar	I Y [Ado	Stanford A dress : 230 ke Forest,	561 ['] Birt						
:	Telepho Fax	në			(949) 407 (949) 812			:			;••	
1.4	1 Emerge	ency te	lephon		·:.			·:.		1.1	·:.	
	Emerge	ncy Pho	ne #		(949) 407 uis telenho		ber is availa	able 24	4 hour	s ner dav	7 days n	۲
1		· ·										
SE	CTION 2:	Hazard	s ident	ificat	ion							
2.1	LClassifi	cation	of the :	subst	ance or n	nixture		:			: • •	
	GHS Cla	assifica	ition in	acco	rdance w	ith 29	CFR 1910	(OSH	A HCS)		
	Skin irri	tation (Categor	y 2),	H315		1.1	÷.		1.1	11. 11.	
÷ -	Eve irrit	ation (C	Category			vnocure	Catagory	3), Re	espirato	ory system	, H335	
			organ to	oxicity	- single e	xposure			•	, ,		
	Specific	target					ed in this Se		see Se	ection 16.		
2.2	Specific For the	target of full text	of the l	H-Sta	tements m	entione		ection,		ection 16.		
2.2	Specific For the	target o full text	of the l ments,	H-Sta	tements m	entione aution	ed in this Se	ection, nents			;	
2.2	Specific For the 2 GHS La	target o full text bel ele	of the l ments,	H-Stat inclu	tements m	entione aution	ed in this Se a ry staten	ection, nents				
2.2	Specific For the 2 GHS La Pictogra	target o full text bel ele Im Vord	of the l ments,	H-Stat	tements m ding pred () Warning	entione caution	ed in this Se a ry staten	nents	·::	9.j	 	
2.2	Specific For the GHS La Pictogra Signal V Hazard	target o full text i bel ele im Vord stateme	of the l ments, ent(s)	H-Sta inclu	tements m ding pred Warning Causes ski	entione caution	ed in this Se a ry staten	ection, nents	at Be		Page 1	
	Specific For the GHS La Pictogra Signal V Hazard H315	target o full text i bel ele im Vord stateme	ent(s)	H-Sta inclu	tements m ding pred Warning Causes ski	n irrita	ed in this Se ary staten	ection, nents	al Uže Nd		Page 1	of

		H319 H335				Causes se May cause					1.1		
		Precau	itionary	statem	ent(s)								
· •		P261			. :	Avoid brea					.:		
		P264				Wash skin							
		P271				Use only o							
. •		P280			:	Wear prot							
1			+ P352	+ P312	1.1	IF ON SKI						p comfortab	
		F 304 -	F F J 40	T FJIZ								ou feel unwo	
÷		P305 -	⊢ P351	+ 9338	1.1							al minutes.	CII.
												. Continue	
						rinsing.							
1		P332 -		1.1		If skin irri							
			+ P313			If eye irrit							
		P362				Take off c							
		P403 -	+ P233			Store in a Store lock		entilated p	асе. ке	ep cont	ainer ti	ghtly closed	1.
		P403						nts/ contai	iner to a	n annro	ved wa	aste disposa	i i
		1001				plant.	i contei				vea me		•
	!			. : *					· · ·			1.1	
	2.3	Hazar	ds not	otherw	ise cl	assified (I	HNOC)	or not co	overed	by GHS	- none	9	
÷.						1 1 1					. :		
1	SEC	FION 3	: Comp	osition	/infor	rmation or	n ingre	dients					
	3.1	Subst											
. :		Formu		1.1	:.: :	Cl₃Dy 6H			111	1.1	1.1	: * *	1
		Molecu	ılar wei	ght	:	376.95 g/	mol						
		CAS-N	0.		:	15059-52	-6						
			0.		:-:	15059-52 233-039-9	-6						
		CAS-N	o.	- H	:+: :+:		-6	Classi	fication			Concentrat	ion
		CAS-N EC-No	o. • onent	(III) ch	loride		-6						
		CAS-N EC-No	o. • onent	(III) ch	lloride	233-039-9	-6	Skin 1	Irrit. 2;			Concentrat	
		CAS-N EC-No	o. • onent	(III) ch	: Iloride	233-039-9	-6	Skin I STOT	Irrit. 2; SE 3; H				
		CAS-N EC-No Compo	o. onent osium(233-039-9 e hexahyd	-6 9 rate	Skin I STOT H335	Irrit. 2; SE 3; H	315, H3	319,	<= 100 %	
		CAS-N EC-No Compo	o. onent osium(233-039-9 e hexahyd	-6 9 rate	Skin I STOT H335	Irrit. 2; SE 3; H	I315, H3	319,	<= 100 %	
	:	CAS-N EC-No Compo	o. onent osium(233-039-9 e hexahyd	-6 9 rate	Skin I STOT H335	Irrit. 2; SE 3; H	I315, H3	319,	<= 100 %	
		CAS-N EC-No Compo Dyspr	o. onent osium(xt of the	e H-Sta	233-039-9 e hexahyd	-6 P rate	Skin 1 STOT H335 ed in this	Irrit. 2; SE 3; H	see See	19,	<= 100 %	
		CAS-N EC-No Compo Dyspr	o. onent osium(xt of the	e H-Sta	233-039-9 e hexahyd	-6 P rate	Skin 1 STOT H335 ed in this	Irrit. 2; SE 3; H	see See	19,	<= 100 % 6.	
:	SEC	CAS-N EC-No Compo Dyspr For the	o. onent osium(e full te First a	xt of the	e H-Sta	233-039-9 e hexahyd atements m	-6 9 rate	Skin I STOT H335 ed in this	Irrit. 2; SE 3; H Section,	see See	s19,	<= 100 % 6.	
:	SEC	CAS-N EC-No Dyspr For the For the Descr	o. onent osium(e full te First a iption (xt of the aid mea of first-	e H-Sta	233-039-9 e hexahyd atements m	-6 9 rate	Skin I STOT H335 ed in this	Irrit. 2; SE 3; H Section,	see See	s19,	<= 100 % 6.	
:	SEC	CAS-N EC-No Dyspr For the For the Descr Gener	o. onent osium(e full te First a iption o al advi	xt of the aid mea of first- ice	e H-Sta asures aid m	233-039-9 e hexahyd atements m	-6 P rate	ed in this	SE 3; H	see Sec	s19,	<= 100 % 6.	
:	SEC	CAS-N EC-No Dyspr Dyspr	o. onent osium(e full te First a iption (ral advi this ma	xt of the aid mea of first- ice terial sa	e H-Sta sures aid m	233-039-9 e hexahyd atements m atements m ata sheet to	-6 9 rate nention	ed in this	Irrit. 2; SE 3; H Section,	e.	s19,	<= 100 %	
:	SEC	CAS-N EC-No Dyspr For the For the Descr Gener Show	o. onent osium(e full te First a iption o al advi this ma aled	xt of the aid mea of first- ice terial sa	e H-Sta asures aid m	233-039-9 e hexahyd atements m	-6 9 rate nention	ed in this	Irrit. 2; SE 3; H Section,	e.	s19,	<= 100 %	
	SEC	CAS-N EC-No Dyspr Dyspr For the For the Gener Show After i	o. onent osium(e full te First a iption o al advi this ma aled nhalatic	xt of the aid mea of first- ice terial sa	e H-Sta sures aid m fety da	233-039-9 e hexahyd atements m atements m ata sheet to	-6 9 rate nention	ed in this	Irrit. 2; SE 3; H Section,	e.	s19,	<= 100 %	
	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In cas	o. onent osium(e full te First a iption o ral advi this ma aled nhalatic se of sk	xt of the aid mea of first- ice terial sa on: fresh kin cont	e H-Sta asures aid m fety da a air. tact	233-039-9 e hexahyd atements m atements m ata sheet to	-6 P nention	ed in this	Irrit. 2; SE 3; H Section,	e.	s19,	<= 100 %	
	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In case	o. onent osium(e full te First a iption o aladvi this ma aled nhalatic se of ski e of ski	xt of the aid mea of first- ice terial sa on: fresh xin contac	e H-Sta asures aid m fety da a air. act	233-039-9 e hexahyd atements m atements m ata sheet to	-6 P nention	ed in this	Irrit. 2; SE 3; H Section,	e.	s19,	<= 100 %	
	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In case	o. onent osium(e full te full te iption o aladvi this ma aled nhalatic se of ski showe	xt of the aid mea of first- ice terial sa on: fresh kin contac r.	e H-Sta asures aid m fety da air. air. act t: Tak	233-039-9 e hexahyd atements m ata sheet to ata sheet to	-6 P rate	ed in this a	Irrit. 2; SE 3; H Section, tendanc	e.	tion 10	<= 100 %	
	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In case	o. onent osium(e full te full te iption o aladvi this ma aled nhalatic se of ski showe	xt of the aid mea of first- ice terial sa on: fresh kin contac r.	e H-Sta asures aid m fety da air. air. act t: Tak	233-039-9 e hexahyd atements m atements m ata sheet to	-6 P rate	ed in this a	Irrit. 2; SE 3; H Section, tendanc	e.	tion 10	<= 100 %	
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	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In case	o. onent osium(e full te full te iption o aladvi this ma aled nhalatic se of ski showe	xt of the aid mea of first- ice terial sa on: fresh kin contac r.	e H-Sta asures aid m fety da air. air. act t: Tak	233-039-9 e hexahyd atements m ata sheet to ata sheet to	-6 P rate	ed in this a	Irrit. 2; SE 3; H Section, tendanc	e.	tion 10	<= 100 %	
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	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In case water/	o. onent osium(e full te First a iption o aladvi this ma aled nhalatic se of ski showe	xt of the aid mea of first- ice terial sa on: fresh tin contac r.	e H-Sta sures aid m fety da air. tact t: Tak	233-039-9 e hexahyd atements m ata sheet to ata sheet to	-6 P rate nention	ed in this	Irrit. 2; SE 3; H Section,	e.	Rinse	<= 100 %	of 8
	SEC 4.1	CAS-N EC-No Dyspr Dyspr For the For the Gener Show If inh After i In cas water/	o. onent osium(e full te First a iption o ral advi this ma aled nhalatic se of ski showe	xt of the aid mea of first- ice terial sa on: fresh cin contac r.	e H-Sta asures aid m fety da air. air. t: Tak	233-039-9 e hexahyd atements m ata sheet to ata sheet to	-6 P rate	ed in this all contam	Irrit. 2; SE 3; H Section,	e.	Rinse	<= 100 % 6. skin with Page 2 d	

In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed. No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas Metal oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4	Reference to For disposal se		ns 🔛			. · :		1.	:::		
									111		
SECT	FION 7: Handl	ing and stora	age								
7.1	Precautions For precaution			:.;	H.	:			:		
7.2	Conditions fo	or safe stora	ge, includi	ng any	/ incomp						
	Storage cond Tightly closed					1.1			1 e		
	hygroscopic Storage class							Н			
7.3	Storage class Specific end Apart from the	use(s)				specific (uses are	e stipulate	ed 👯	:.;	
			. · ·					1.1			
SECT	FION 8: Expos	ure controls	/personal	protec	tion						
8.1	Control para	meters									
8.2	Ingredients Contains no su Exposure con	ubstances with				it values	•	1.1		1.1	
	Appropriate Immediately of hands and fac	change contair	inated clot			entive sl	<in prot<="" td=""><td>ection. W</td><td>ash</td><td></td><td></td></in>	ection. W	ash		
	Personal pro	tective equip	oment			.':					
	Use equi	e protection pment for eye ent standards								141	
	Skin pro Handle w	otection vith imperviou	s gloves.	:		;	1.1		;	:. <u>;</u>	
	This reco supplied substanc	ommendation by us and for cestand under	applies only the designa	to the the	product	stated in	the saf	ety data	sheet,		
	Internet:	he supplier of www.kcl.de).			ng from tl	hose stat	ted in El	N374 plea	ase		
	Full cont Material: Minimum	: www.kcl.de) act Nitrile rubber hlayer thickne	ss: 0.11 mi	ed glov	ng from tl ves (e.g. ł	hose stat <cl gmb<="" td=""><td>ed in El H, D-36</td><td>N374 plea 5124 Eich</td><td>ase</td><td></td><td></td></cl>	ed in El H, D-36	N374 plea 5124 Eich	ase		
	Full cont Material: Minimum Break th Material	www.kcl.de) act Nitrile rubber layer thickne rough time: 4 tested:KCL 74	ss: 0.11 mi 80 min	ed glov	ng from tl ves (e.g. ł	hose stat KCL Gmb	ted in El H, D-36	N374 plea 5124 Eich	ase ienzell,		
	Full cont Material: Minimum Break th Material Splash co Material: Minimum	www.kcl.de) act Nitrile rubber layer thickne rough time: 4 tested:KCL 74	ss: 0.11 mi 80 min 1 Dermatri ss: 0.11 mi	ed glov m I® L	ng from tl ves (e.g. ł	hose stat KCL Gmb	ted in El	N374 plea 5124 Eich	ase henzell,		
: :	Full cont Material: Minimum Break th Material Splash co Material: Minimum	www.kcl.de) act Nitrile rubber layer thickne rough time: 4 tested:KCL 74 ontact Nitrile rubber layer thickne	ss: 0.11 mi 80 min 1 Dermatri ss: 0.11 mi 80 min	ed glov m I® L m	ng from tl ves (e.g. ł	hose stat KCL Gmb	ted in El	N374 plea 5124 Eich	ase in an		
	Full cont Material: Minimum Break th Material Splash co Material: Minimum	www.kcl.de) act Nitrile rubber layer thickne rough time: 4 tested:KCL 74 ontact Nitrile rubber layer thickne	ss: 0.11 mi 80 min 1 Dermatri ss: 0.11 mi 80 min	ed glov m I® L m	ng from tl ves (e.g. k	hose stat <cl gmb<="" td=""><td>ed in El</td><td>N374 plea 5124 Eich</td><td>ase henzell,</td><td>of 8</td><td></td></cl>	ed in El	N374 plea 5124 Eich	ase henzell,	of 8	

		11.	· · · · ·				11.				,		11.
	•	1.	Material test	ed:KCL 2	741 Dermatri	I® L	l.			1.1	i.e		i.
			Body Prote										
	11		protective cl Respiratory		tion							141	
			required who	en dusts	are generate						си ·		
		1.1	standards: E	DIN EN 1	is on filtering 43, DIN 1438	87 and of						1.1	1.1
			the used res	piratory	protection sy	stem.			1				
	· ; `	1.			mental expo	sure					i e		i.
			Do not let pi	roduct er	iter drains.								
			19: Physical a				_	_					
	1.	1.1	ormation on	basic pł				erties			: • •	:.;	
		a)	Appearance		Form: Cryst Color: light		lumps						
		b)	Odor		No data ava					1 er	1.1		i.
		c)	Odor Thresho	ld	No data ava								
		d)	pH		No data ava	ilable					111		
		e)	Melting point/freezing	g point	No data ava	ilable							
		, (f)	Initial boiling and boiling ra		No data ava	ilable		:	:.;	÷:	: ' '	:.;	
		g)	Flash point		()Not applic	able							
		h)	Evaporation r	ate	No data ava	ilable		111		1.1	1.1		111
		i)	Flammability gas)	(solid,	No data ava	ilable							
		j)	Upper/lower flammability		No data ava	ilable							
		5. 'T N	explosive limi			: L_'L_' -							
		k)	Vapor pressu		No data ava				· · .				:·:
)	Vapor density Density		No data ava								
		(m)	Density Relative dens		No data ava No data ava						111		111
		n)	Water solubili		No data ava								
		0)	Partition coef n-octanol/wat	ficient:	No data ava		.:			.:			
		p)	Autoignition temperature		No data ava	ilable			:.;		;••	e.	
		q)	Decompositio	n	No data ava	ilable							
			temperature			· ['		1.1			1 er		l:
		r)	Viscosity		No data ava	ilable							
	111										Page 5	of 8	
			arr - 6.5			:.;	1.1	:··					
			• • • • •						· · ,			· · ·	
•	• []	1.		1.						1.	1		i.

· · ·	s) Explosive propert	ies No data	available	11	11				
	t) Oxidizing propert	ies No data	available						
9.2	Other safety inform No data available	ation		1		1.	.:		11.
	n an ar		t at	'	111	'		111	'
SECT	ION 10: Stability an	d reactivity							
10.1	Reactivity No data available								
10.2	Chemical stability The product is chemic	cally stable un	der standa	rd ambier	nt conditi	ons (ro	om temp	erature) .	÷.,
10.3	Possibility of hazar No data available	dous reactio	ns						
L 0.4	Conditions to avoid Avoid moisture. no information availa		·				¹		'
L 0.5	Incompatible mate No data available	· · · · · · · · · · · · · · · · · · ·							
0.6	Hazardous decomp In the event of fire: s		ucts				.:		÷.,
	·				1 1 1 1			:	
	TON 11: Toxicologic								
	Information on tox		ects	14.	14.		14	1	
	Acute toxicity Oral: No data availab Inhalation: No data a Dermal: No data avai No data available	vailable	în.	.:	1.	14. 14.	.1		÷.,
	Skin corrosion/irrit	ation	· · · · ·		1 1 1 1			;**	'
	Serious eye damag No data available	e/eye irritat	ion		1.				:
	Respiratory or skin No data available	sensitizatio							
	Germ cell mutagen No data available	icity		.:	1				÷.
	Carcinogenicity								
		ent of this pro as probable, p							'
÷.		ent of this pro as a known or					or equal to	o 0.1% is	
	OSHA: No compor	nent of this pr	oduct prese	ent at leve	els great	er than	or equal	to 0.1% is	;
;						14	.1	Page 6 of	f 8

	Reproducti		city								
	No data avai No data avai									111	:•:
	Specific tar Inhalation -					osure					
	Specific tar No data avai		jan toxic	ity - rep	eated	exposure				;	
 ŀ	Aspiration No data avai		111			le:					
11.2	Additional I	Informa	ation								
. :	To the best of been thoroug		-		mical, p	hysical, an	d toxic	ological	properti	es have no	t
-	: :			; · ·			: ' '			;	÷.;
	ION 12: Eco	-									
	Toxicity No data avai	ilable				in:	1.1			in .	
. :	Persistence No data avai	ilable									
	Bioaccumu No data avai	lable									
	Mobility in No data avai	lable					1				
12.5	Results of I PBT/vPvB as conducted					cal safety as	ssessm	ent not	required	d/not	•
12.6	Endocrine d No data avai		ng prop	erties			111	111			
12.7	Other adver No data avai		cts								
-				:			: • •	:. <u>;</u>		; • •	
	ION 13: Dis Waste trea	-					i e		in .		•
	Product Waste mater Leave chemi containers li	cals in c ke the p	t be dispo original co roduct its	osed of in ontainers self.	accord . No miz	ance with t xing with of	he nati ther wa	onal an ste. Ha	d local r ndle unc	leaned	
			H.	:			;			:	֥;
SECT	ION 14: Tra DOT (US)	nsport	informa	tion	• ['				1.		•
			11					111		Page 7 of	f 8
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		Not d	angerou	s göods				:•:			1.1			÷
1		IMD(Not d		s ģoods	11.									
		IATA Not d	angerou	s goods										
		Furth	ner info	rmatioi	1			transpor				:		
		:•:		-			-	:•:	-		:•:		:::	ŀ
	s S	ECTION 1	L5: Reg	ulatory	inform	ation							: :	
			302 Co material	-		n any cor	nponen	ts with a	section 3	802 EHS	TPQ.			
			313 Co naterial				emical c	componer	ts with k	nown C	AS numb	ers that	÷::	
		excee 313.			•	f . •		evels est		·		, Section		÷
						the Mas		i ts etts Right	t to Know	Act.				

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