

# SAFETY DATA SHEET

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Precautionary statement(s)		1 - 1 1	
P261 Avoid breathing dust/ fume/ gas/ mist/ Vapors/ spray.			
P264 Wash skin thoroughly after handling.			
P270 Do not eat, drink or smoke when using this product.			
P271 Use only outdoors or in a well-ventilated area.P280 Wear protective glov	es/ protecti	ve cloth	ning.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.			2
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.			:
P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a pos	sition		i
comfortable for breathing.			
P312 Call a POISON CENTER/doctor if you feel unwell.	1 1		
P322 Specific measures (see supplemental first aid instructions on this label).	, , ,		1
P330 Rinse mouth.			
P361 Remove/Take off immediately all contaminated clothing.			
P363 Wash contaminated clothing before reuse.		; • •	
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.			
P405 Store locked up.			
P501 Dispose of contents/ container to an approved waste disposal plant.			
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS			
Contact with acids liberates very toxic gas.	н н н	:**	'
Strong hydrogen fluoride-releaser	. :		

## **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances		1.1 <sup>1</sup>	1 1 - 1				111	
Formula : F3Lu	1 - 1 1			1 - 1 1				
Molecular weight : 231.96 g/mol		:						:
CAS-No. : 13760-81-1	1			1			1	,
EC-No. : 237-355-8 Hazardous components	; · ·	<sup>1</sup>	.:	111	*	.:	111	
Component Classification Concentration								

		'										
Lutetium trifluor	ide											
Acute Tox. 3; H												
H331								1				
<= 100 %					'		; • •			:**	11	
				1 I 1					. :			
SECTION	4. FI	RST		<b>MEAS</b>	SURE	S						
										(1,1)		
4.1 Description	of first a	aid mea	asures									
General advice								*	. :			
Consult a physi	cian. Sl	now thi	s safety o	data she	et to th	e doctor	in attend	lance.N	love out	of dange	erous	
area.Hydrofluor	ic <sup>1</sup>											
(HF) acid burns be	require	e imme	diate and	l special	ized fir	st aid and	d medica	ll treatn	nent. Syn	nptoms r	nay	
delayed up to 2	4							'	. :			
hours dependin	g on th	e conce	entration	of HF. A	fter de	contamir	nation wi	th wate	r, further	damage	; can	
occur due to				· · ·			1 - 1 1					

penetration/absorption of the fluoride ion. Treatment should be directed toward binding the fluoride ion

as well as the

effects of exposure. Skin exposures can be treated with a 2.5% calcium gluconate gel repeated until burning ceases.

More serious skin exposures may require subcutaneous calcium gluconate except for digital areas unless the physician

is experienced in this technique, due to the potential for tissue injury from increased pressure.

Absorption can readily

occur through the subungual areas and should be considered when undergoing decontamination.

Prevention of absorption of the fluoride ion in cases of ingestion can be obtained by giving milk, chewable calcium

carbonate tablets

or Milk of Magnesia to conscious victims. Conditions such as hypocalcemia, hypomagnesemia and cardiac arrhythmias

should be monitored for, since they can occur after exposure.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.First

treatment with

calcium gluconate paste.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. 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			'		: • •		: • •	'
Dry powder								
5.2 Special hazards arising from th	he substa	ance or	mixtu	e				
No data available		.'	1					
5.3 Advice for firefighters								
Wear self-contained breathing app	baratus fo	or firefig	ghting i	if necessa	iŕý.	'	; * *	'
5.4 Further information								

# SECTION 6. ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. 6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. 6.3 Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in suitable, closed containers for disposal. 6.4 Reference to other sections

# SECTION 7. HANDLING AND STORAGE

For disposal see section 13.

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid formation of dust and aerosols.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place.
Never allow product to get in contact with water during storage. Do not store near acids.
Keep in a dry place. Do not store in glass
7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

			1 - 1						
SECTION 8. EXPOSURE	CON	TRC	DLS/P	ERSC	NAL				
PROTECTION									
8.1 Control parameters									
Components with workplace control pa	rameter	S					: * *	· · · '	
Component CAS-No. Value Control	1 - 1 1		н 1 — 1						
parameters Basis		1			1			1	
Lutetium trifluoride 13760-81-1 TWA 2.	500000	'			'				
mg/m3			1 1						
USA. Occupational Exposure Limits									
(OSHA) - Table Z-1 Limits for Air									
Contaminants									
Remarks CAS number varies with com	pound		1 1 1	:**					
TWA 2.500000									
mg/m3		.'	1 1	1	. '	1 1	,	.'	
USA. Occupational Exposure Limits									
(OSHA) - Table Z-2									
Z37.28-1969	: • •	<sup>1</sup>	1 1 - 1		<sup>1</sup>			<sup>1</sup>	
TWA 2.500000		, '							
mg/m3									
USA. ACGIH Threshold Limit Values									
(TLV)									
Bone damage		· · · <sup>1</sup>			'				
Fluorosis	1 - 1 1								
Substances for which there is a Biologi									
(see BEI® section)	. '	1	. '	. '		. '	. '		
Not classifiable as a human carcinoger	1								
varies				,		1 I			
TWA 2.500000	1 - 1 1		1		1			$\mathcal{A}^{(1)}$	

		'	1						 		
mg/m3				1 I 1					 		
USA. ACGIH Th	nreshold	۱ Limit ۱	/alues								
(TLV)	A ACGIH Threshold Limit Values (/) e damage prosis stances for which there is a Biological Exposure Index or Indices a BEI® section) classifiable as a human carcinogen esTWA 2.5 mg/m3 USA. Occupational Exposure Limits HA) - Table Z-1 Limits for Air taminants S number varies with compound A 2.5 mg/m3 USA. ACGIH Threshold Limit Values (/) e damage prosis stances for which there is a Biological Exposure Index or Indices a BEI® section) classifiable as a human carcinogen es ogical occupational exposure limits nponent CAS-No. Parameters Value Biological cimen is ptum trifluoride 13760-81-1 Fluoride 3.0000 g time ACGIH - Biological ouvre Indices										
Bone damage	A. ACGIH Threshold Limit Values V) le damage prosis ustances for which there is a Biological Exposure Index or Indices a BEI® section) classifiable as a human carcinogen esTWA 2.5 mg/m3 USA. Occupational Exposure Limits SHA) - Table Z-1 Limits for Air ttaminants S number varies with compound A 2.5 mg/m3 USA. ACGIH Threshold Limit Values V) le damage prosis ustances for which there is a Biological Exposure Index or Indices a BEI® section) classifiable as a human carcinogen es logical occupational exposure limits mponent CAS-No. Parameters Value Biological cimen lis etium trifluoride 13760-81-1 Fluoride 3.0000 g mine ACGIH - Biological usure Indices										
Fluorosis	A ACGIH Threshold Limit Values () e damage rosis stances for which there is a Biological Exposure Index or Indices BEI® section) classifiable as a human carcinogen esTWA 2.5 mg/m3 USA. Occupational Exposure Limits HA) - Table Z-1 Limits for Air taminants is number varies with compound A 2.5 mg/m3 USA. ACGIH Threshold Limit Values () e damage rosis stances for which there is a Biological Exposure Index or Indices BEI® section) classifiable as a human carcinogen es TWA 2.5 mg/m3 USA. ACGIH Threshold Limit Values () e damage rosis stances for which there is a Biological Exposure Index or Indices BEI® section) classifiable as a human carcinogen es pojcal occupational exposure limits uponent CAS-No. Parameters Value Biological immen s tum trifluoride 13760-81-1 Fluoride 3.0000 j ine ACGIH - Biological csure Indices										
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(see BEI® secti	on)										
Not classifiable	damage osis tances for which there is a Biological Exposure Index or Indices BEI® section) lassifiable as a human carcinogen sTWA 2.5 mg/m3 USA. Occupational Exposure Limits IA) - Table Z-1 Limits for Air aminants number varies with compound 2.5 mg/m3 USA. ACGIH Threshold Limit Values ) damage osis tances for which there is a Biological Exposure Index or Indices BEI® section) lassifiable as a human carcinogen s gical occupational exposure limits ponent CAS-No. Parameters Value Biological men										
variesTWA 2.5	SA. ACGIH Threshold Limit Values LV) one damage uorosis ubstances for which there is a Biological Exposure Index or Indices ee BEI® section) ot classifiable as a human carcinogen rriesTWA 2.5 mg/m3 USA. Occupational Exposure Limits DSHA) - Table Z-1 Limits for Air ontaminants AS number varies with compound WA 2.5 mg/m3 USA. ACGIH Threshold Limit Values LV) one damage uorosis ubstances for which there is a Biological Exposure Index or Indices ee BEI® section) ot classifiable as a human carcinogen rries ological occupational exposure limits proponent CAS-No. Parameters Value Biological secimen asis utetium trifluoride 13760-81-1 Fluoride 3.0000 g/g unne ACGIH - Biological consure Indices										
(OSHA) - Table											
Contaminants									 		
CAS number va	A. ACGIH Threshold Limit Values (V) le damage prosis listances for which there is a Biological Exposure Index or Indices e BEI® section) classifiable as a human carcinogen esTWA 2.5 mg/m3 USA. Occupational Exposure Limits HA) - Table Z-1 Limits for Air ttaminants S number varies with compound A 2.5 mg/m3 USA. ACGIH Threshold Limit Values (V) le damage prosis listances for which there is a Biological Exposure Index or Indices e BEI® section) classifiable as a human carcinogen es getel® section] classifiable as a human carcinogen										
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Bone damage	A ACGIH Threshold Limit Values .V) ne damage torosis batances for which there is a Biological Exposure Index or Indices the BEI® section) t classifiable as a human carcinogen tesTWA 2.5 mg/m3 USA. Occupational Exposure Limits SHA) - Table Z-1 Limits for Air ntaminants .S number varies with compound .A 2.5 mg/m3 USA. ACGIH Threshold Limit Values .V) ne damage torosis bestances for which there is a Biological Exposure Index or Indices the BEI® section) t classifiable as a human carcinogen ties plogical occupational exposure limits mponent CAS-No. Parameters Value Biological acimen sis letium trifluoride 13760-81-1 Fluoride 3.0000 //g urine ACGIH - Biological posure Indices										
Fluorosis	A. ACGIH Threshold Limit Values V) he damage orosis batances for which there is a Biological Exposure Index or Indices e BEI® section) classifiable as a human carcinogen lesTWA 2.5 mg/m3 USA. Occupational Exposure Limits SHA) - Table Z-1 Limits for Air ntaminants S number varies with compound (A 2.5 mg/m3 USA. ACGIH Threshold Limit Values V) he damage orosis batances for which there is a Biological Exposure Index or Indices e BEI® section) classifiable as a human carcinogen les logical occupational exposure limits monent CAS-No. Parameters Value Biological terimen sis etium trifluoride 13760-81-1 Fluoride 3.0000 (g urine ACGIH - Biological bosure Indices										
Substances for	which th	nere is a	a Biologica	al Expo	sure li	ndex or l	ndices				
(see BEI® secti	on)										
Not classifiable	as a hu	man ca	rcinogen		'			'	 111	'	
varies									 		
Biological occup	BEI® section) classifiable as a human carcinogen asTWA 2.5 mg/m3 USA. Occupational Exposure Limits HA) - Table Z-1 Limits for Air taminants in number varies with compound A 2.5 mg/m3 USA. ACGIH Threshold Limit Values // e damage rosis stances for which there is a Biological Exposure Index or Indices BEI® section) classifiable as a human carcinogen as pgical occupational exposure limits uponent CAS-No. Parameters Value Biological stimen s										
Component CA	S-No. P	aramet	ers Value	Biologi	cal						
specimen	is nees for which there is a Biological Exposure Index or Indices E® section) ssifiable as a human carcinogen WA 2.5 mg/m3 USA. Occupational Exposure Limits ) - Table Z-1 Limits for Air inants imber varies with compound 5 mg/m3 USA. ACGIH Threshold Limit Values amage is nees for which there is a Biological Exposure Index or Indices EI® section) ssifiable as a human carcinogen ad occupational exposure limits nent CAS-No. Parameters Value Biological en n trifluoride 13760-81-1 Fluoride 3.0000 ACGIH - Biological re Indices										
Basis	e BEI® section) t classifiable as a human carcinogen iesTWA 2.5 mg/m3 USA. Occupational Exposure Limits SHA) - Table Z-1 Limits for Air ntaminants S number varies with compound (A 2.5 mg/m3 USA. ACGIH Threshold Limit Values V) ne damage orosis batances for which there is a Biological Exposure Index or Indices e BEI® section) t classifiable as a human carcinogen ies logical occupational exposure limits mponent CAS-No. Parameters Value Biological terimen sis etium trifluoride 13760-81-1 Fluoride 3.0000 /g urine ACGIH - Biological posure Indices I)										
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mg/g											. •
In urine ACGIH	A ACGIH Threshold Limit Values V) ne damage orosis bstances for which there is a Biological Exposure Index or Indices e BEI® section) t classifiable as a human carcinogen iresTWA 2.5 mg/m3 USA. Occupational Exposure Limits SHA) - Table Z-1 Limits for Air ntaminants S number varies with compound (A 2.5 mg/m3 USA. ACGIH Threshold Limit Values V) ne damage torosis bstances for which there is a Biological Exposure Index or Indices ee BEI® section) t classifiable as a human carcinogen fies blogical occupational exposure limits mponent CAS-No. Parameters Value Biological acimen sis tetium trifluoride 13760-81-1 Fluoride 3.0000 //g urine ACGIH - Biological posure Indices EI)										
Exposure Indice	ACGIH Threshold Limit Values damage psis ances for which there is a Biological Exposure Index or Indices 3EI® section) lassifiable as a human carcinogen STWA 2.5 mg/m3 USA. Occupational Exposure Limits A) - Table Z-1 Limits for Air uminants number varies with compound 2.5 mg/m3 USA. ACGIH Threshold Limit Values damage psis ances for which there is a Biological Exposure Index or Indices 3EI® section) assifiable as a human carcinogen s gloal occupational exposure limits porient CAS-No. Parameters Value Biological men um trifluoride 13760-81-1 Fluoride 3,0000 he ACGIH - Biological sure Indices										
(BEI)											
Remarks Prior t	o shift (	16 houi	rs after ex	posure	cease	s)			 		

			1 1 1			1 1 1					
Fluoride 10.0000											
mg/g											
In urine ACGIH - Biol	ogical										
Exposure Indices											
(BEI)							'				
End of shift (As soon	as possil	ole after ex	xposure	e cease	s),			н 1 - 1			
Fluoride 2 mg/l Urine	ACGIH -	Biological	I j								
Exposure Indices	i	1		i		1	Ĩ	1	1		
(BEI)											
Prior to shift (16 hour	s after ex	posure ce	eases)								
Fluoride 3 mg/l Urine	ACGIH -	Biological	I .		, , ,			н 1 — 1			
Exposure Indices											
(BEI)											
End of shift (As soon	as possil	ole after ex	xposure	e cease	s)				: • •		
8.2 Exposure control	S										
Appropriate engineer	ing contro	ols	1					н н н	1		
Avoid contact with sk handling	in, eyes a	and clothin	ng. Was	h hand	s before b	oreaks a	and imr	nediately a	after		
the product.											
Personal protective e	quipment	t									
Eye/face protection								• • •			
Face shield and safe	ty glasses	s Use equi	ipment	foreye	protection	n tested	and a	pproved u	nder	-	
appropriate											
government standard	ls such as	s NIOSH (	US) or	EN 166	6(EU).	111			111	<sup>1</sup>	
Skin protection				. '			. '				
Handle with gloves. (											
(without	-						1			1	
touching glove's oute	r surface)	) to avoid s	skin co	ntact wi	th this pro	oduct. D	ispose	of contan	ninated		
gloves	· · · <sup>1</sup>	н н н									
after		1 1 1	1 1 1		1 1 - 1	1 1 1		н 1. 1.		al an	

use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection** 

Complete suit protecting against chemicals, The type of protective equipment must be selected according to

the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle

respirator type

N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the

sole means of protection, use a full-face supplied air respirator. Use respirators and components

tested and

approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9. PHYSICAL	AND	CHE	MICA		OPEI	RTIES		
9.1 Information on basic physical and	chemical	l prope	rties		1			
a) Appearance Form: powder			. '				. '	
Colour: white						. :	: • •	
b) Odor No data available								
c) Odor Threshold No data available	1		1 1			1 1		
d) pH No data available								
e) Melting point/freezing								
point		<sup>1</sup>					: **	'
No data available								
f) Initial boiling point and		,						. '
boiling range								
No data available								
g) Flash point N/A	111	'		111	'	1 1 - 1	111	'
h) Evaporation rate No data available								
i) Flammability (solid, gas) No data av	ailable							
j) Upper/lower	. * *							
flammability or								
explosive limits		'			'			'
No data available							н н н	
k) Vapor pressure No data available	. 1			. 1				
I) Vapor density No data availablem) F	Relative c	density	No data	available	<b>;</b>			
n) Water solubility No data available		'					: • •	
o) Partition coefficient: noctanol/								
water								1.1

No data available								. :			
p) Auto-ignition No da											
temperature											
q) Decomposition temperature	<sup>1</sup>		:	<sup>1</sup>		:	<sup>1</sup>		:**	'	
No data available											
r) Viscosity No data av s) Explosive properties		ta availat		;		e <sup>r</sup>	;	.et			
t) Oxidizing properties	No data	a availabl	e				'				
9.2 Other safety inform	nation										
No data available			1 - 1 1		н 1 - 1		. *		1		

# SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity								
No data available						.'		. '
10.2 Chemical stability								
Stable under recommended storage								
10.3 Possibility of hazardous reaction	ons				; * *			 
No data available								
10.4 Conditions to avoid								
Avoid moisture.								
Reacts dangerously with glass.								
10.5 Incompatible materials			'	1 1 1				 
Strong reducing agentsglass								
10.6 Hazardous decomposition products Hazardous decomposition products oxides	formed	d undei	fire co				oride, lute	:
Other decomposition products - No	data av	/ailable	<b>)</b>					 
In the event of fire: see section 5		н н н						 

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SECTION 11. 1	ΓΟΧΙΟ	COLOG	GICA		FORM	ΙΑΤΙΟ	DN			al an
11.1 Information on tox	kicologic	al effects								1
Acute toxicity										
No data available										'
No data available										
Skin corrosion/irritation			,					,		
No data available			. '				1	.'		
Serious eye damage/e	ye irritat									
No data available										
Respiratory or skin sen	sitisatio	n	1 I		н 1 - 1	н н н				
No data available			, ' <sup>'</sup>			, ' <sup>'</sup>				
Germ cell mutagenicity	,									
No data available		н 1 - 1		<sup>1</sup>		:	<sup>1</sup>	, , ,		'
Carcinogenicity										
IARC: 3 - Group 3: Not	classifia	able as to	its card	cinoger	nicity to hu	umans (	Lutetiu	m trifluor	ide)	
NTP: No component of aknown or anticipated o		•		evels g	greater tha	an or eq	ualito (	).1% is id	lentified	as
OSHA: No component a	of this p	roduct pre	esent a	t levels	s greater t	han or e	equal to	o 0.1% is	identifie	d as
carcinogen or potential	carcino	gen by O	SHA.	, ' <sup>1</sup>	, , ,			, , ,		. 1
Reproductive toxicity										
No data available										
No data available									: **	
Specific target organ to	oxicity - s	single exp	osure							
No data available			1		н н н					1.1
Specific target organ to										
opoomo targot organ to	oxicity - ı	repeated e	exposui	re				11		
	oxicity - ı	repeated e	exposui	re			:			:
No data available Aspiration hazard										
No data available				'			'		: · ·	

#### Additional Information

#### RTECS: OK8837500

Fluoride ion can reduce serum calcium levels possibly causing fatal hypocalcemia.

Salivation, Nausea, Abdominal pain, Vomiting, Fever, Rapid respiration, Fluoride ion can reduce serum calcium levels

possibly causing fatal hypocalcemia., burning sensation, Cough, wheezing, laryngitis, Shortness of

breath, Headache

# **SECTION 12. ECOLOGICAL INFORMATION**

12.1 Toxicity										. * *
No data available										
12.2 Persistence and de	egrada	bility								
No data available			; • •						:**	'
12.3 Bioaccumulative po	otentia	l .								
No data available		1 I			1 1	1		1 I		
12.4 Mobility in soil										
No data available										
12.5 Results of PBT and	l vPvB	assessm	ent	<sup>1</sup>			'		: * *	'
PBT/vPvB assessment i	not ava	ailable as	chemic	al safet	y assessn	nent no	t requir	ed/not cor	nducted	
12.6 Other adverse effe										

# **SECTION 13. DISPOSAL CONSIDERATIONS**

13.1 Waste treatment methods

Product

No data available

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste

disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent

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and bu	ırn in a				н н 1								
	cal incinera												
Contar	ninated pa	ackagin	g									-	
Dispos	e of as un	used p	roduct.										
									1. <sup>1</sup>				
					н н н								
	TION '												
	JS)UN nu								1				
Proper	shipping	name:	Toxic s	olid, inorg	anic, n	.o.s. (Lu	utetium tri	fluoride	)	,			
	Inhalatior			1 I						1 I			
IMDG					н н н								
UN nu	mber: 328	8 Class	s: 6.1 P	acking gro	oup: III	EMS-N	o: F-A, S-	A	1				
Proper	shipping	name:	TOXIC	SOLID, II	NORGA	ANIC, N	.O.S. (Lut	tetium t	rifluorid	e)			
IATA											: • •		
UN nui	mber: 328	8 Class	s: 6.1 P	acking gro	oup: III								
Proper	shipping	name:	Toxic s				utetium tri						

### **SECTION 15. REGULATORY INFORMATION**

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components

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5 Com	ponen	ts									
her	'		1 1 1 1	<sup>1</sup>		; • •			:**		
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	e t To Kn e 5 Com s not co her n.	e t To Know Co e 5 Componen s not contain her n.	e t To Know Component e 5 Components s not contain any chen her n.	e To Know Components	e To Know Components e 5 Components s not contain any chemicals known to her	e To Know Components of the set o	e To Know Components a 5 5 Components a a a a a a a a a a a a a	e de la serie de l	e i i i i i i i i i i i i i i i i i i i	e A and A an	a.a.       b.a.       b.a.

## **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.