

SAFETY DATA SHEET

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SEC	CTION	1. ID	ENT	IFICAT	ION							
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	uct Name #: 25658			, :	1 I			1 - 1 1		.:		· :
Relev	vant iden	tified us	sesof	the substa	nce: S	Scienti	fic resea	rch and	devel	opment		
	lier detai											
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SEC	CTION	2. H	AZA	RDS ID	ENT	IFIC	SATIO	N	1			
Class	ification o	of the su	bstance	e or mixture	Э ,				1		· · · ·	
Not a	hazardou	us subst	ance o	r mixture.								
GHS I	Label ele	ments, i	ncludin	g precautio	onary s	stateme						1
Not a	hazardou	us subst	ance o	r mixture.		1 1						
Hazar	rds not ot	herwise	classif	ied (HNOC) or no	ot cove						
	1									1		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula: NZr

Molecular weight: 105.23 g/mol

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CAS-No.: 25658-42-8	3		н н н		.1			.:		
EC-No.: 247-166-2										
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SECTION 4. F	IRST		IEAS	URE	ES [®]			н н н		
Description of first aid	l measu	reslf inhal	ed	· :		1 I 1	· :	.1	· · ·	
If breathed in, move p	person ir	nto fresh a	ir. If not	t breatl	ning, give	artificial	respira	ation.		
In case of skin contac	: ct	r.			1					
Wash off with soap a	nd plent	y of water								
In case of eye contac	t	ı	ı				·			
Flush eyes with water		ecaution.			.:		1			
If swallowed										
Never give anything b										
Most important sympt	toms an	d effects, l	both ac	uteand	d delayed					
The most important k	nown sy	mptoms a	and effe	cts are	describe	d in the l	abellin	g (see se	ection 2)	
and/or	1			`: :	.:					1
in section 11	-	· · ·			н н н			· · ·		
Indication of any imm	ediate n	nedical att	ention a	and spe	ecial treat	ment ne	eded			
No data available						; • •			;**	
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SECTION 5. F	IREF	IGHTI			SURES	S				
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Extinguishing media Suitable extinguishing	·									
Use water spray, alco						n dioxid	e.		н н н	1
Special hazards arisir Nitrogen oxides (NOx	ng from "	the substa	ance or	mixture	9					:
Nitrogen oxides (NOx	()	r.								
Nature of decomposit	•			т. т.						
Nitrogen oxides (NOx	x), Zircor	nium oxide	es	i.			,		4	
Advice for firefighters							· .		1 - 1 1	

Further informa								
No data availat	ble		, , , , , , , , , , , , , , , , , , ,			1		
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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protectiv	e equipr	nent _. an	d emer	gency pr	ocedure	S	1 - 1			
Avoid dust formation. Avoid bre	eathing V	/apors,	mist or	gas.			1			
For personal protection see see	ction 8.							;••		
Environmental precautions										
Do not let product enter drains.		1					.:			,
Methods and materials for cont	ainment	and cle	eaning u	la dr			н н н			,
Sweep up and shovel. Keep in	suitable,	, closed	l contai	ners for a	disposal.					
Reference to other sections			1 I 1					; • •		
For disposal see section 13.	.:	1 - 1 1		.:	1 - 1 1	`:	.:	н н н	1	

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling	н н н	: * *	1	н н н			н н н	111	
Provide appropriate exhaust v	entilation a	at place	s where	e dust is fo	ormed.N	Vormal	measures	s for	
preventive fire protection.									
For precautions see section 2	-								
Conditions for safe storage, in	-	2	-						
Keep container tightly closed i									
Keep in a dry place.		1 I		.:					1
Specific end use(s)Apart from	the uses r	nention	ed in se	ection 1 no	o other	specific	c uses are	stipula	ted

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls				.:			.:		
Appropriate engineering of	controls								
General industrial hygiene	e practice.								
Personal protective equip	ment								
Eye/face protection				1					
Use equipment for eye pri such	otection teste	d and a	oprove	d under a	ippropria	ate gove	ernment	standard	S
as NIOSH (US) or EN 166	δ(EU).								
Skin protection									
Handle with gloves. Glove	es must be ins	spected	prior to	use. Us	e proper	glove i	removal	technique	е
(without touching glove's	outer surface)	to avoi	d skin d	contact w	ith this p	oroduct.	Dispose	e of	
contaminated gloves after	use in accore	dance w	vith app	licable la	ws and	good la	boratory	practice	S.
Wash and dry hands.									
Wash and dry hands. Body Protection									
-	n relation to its	s type, t		oncentral	ion and	amoun	t of dang	jerous	
Body Protection		s type, t	o the co		ion and				
Body Protection Choose body protection in	ecific work-pl	s type, t ace., Th	o the co le type	of protec	ion and tive equi	ipment	must be	selected	
Body Protection Choose body protection in substances, and to the sp	ecific work-pl	s type, t ace., Th	o the co le type	of protec	ion and tive equi	ipment	must be	selected	
Body Protection Choose body protection in substances, and to the sp according to the concentr	ecific work-plation and amo	s type, t ace., Th ount of t	o the co le type he dan	of protec gerous s	ion and tive equi ubstance	ipment e at the	must be specific	selected workplac	ce.
Body Protection Choose body protection in substances, and to the sp according to the concentr Respiratory protection Respiratory protection is r	ecific work-pl ation and amo not required. \	s type, t ace., Th ount of t Where p	o the co le type he dan rotectio	of protec gerous si on from n	tive equi ubstance uisance	ipment e at the levels o	must be specific of dusts	selected workplac	ce.
Body Protection Choose body protection in substances, and to the sp according to the concentra Respiratory protection Respiratory protection is r use type N95 (US) or type P1	ecific work-pl ation and amo not required. V (EN 143) dus	s type, t ace., Th ount of t Where p	o the co le type he dan rotectio	of protec gerous si on from n espirator	tive equi ubstance uisance s and co	ipment e at the levels o ompone	must be specific of dusts	selected workplac	ce.
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Body Protection Choose body protection in substances, and to the sp according to the concentra Respiratory protection Respiratory protection is r use type N95 (US) or type P1 approved under appropriate govern	ecific work-pla ation and amo not required. M (EN 143) dus ment standard exposure	s type, t ace., Th ount of t Where p t masks ds such	o the co le type he dan rotectio . Use r as NIC	of protec gerous si on from n espirator	tion and tive equi ubstance uisance s and co or CEN	ipment e at the levels o ompone (EU).	must be specific of dusts	selected workplac are desir	ce.

Information on basic physical and chemical properties

Appearance

Form: solid

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Odor	· .				.1		`: 	.:			.:
No data available											
Odor Threshold					,	, , ,	1				
No data available											
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No data available	1	.1				н н н	1	.1		1	.1
Melting point/freezing p	point										
2,980 °C (5,396 °F)	,	,			,		,				
Initial boiling point and	boiling	range									
No data available											
Flash point							1	.:			
No data available		1 - 1 1									
Evaporation rate											
No data available	н н 1	1 I	: ' '	· · ·	1 - 1 1						
Flammability (solid, gas	s)	:			.:						:
No data available				1	1	,	,				
Upper/lower flammabili	ty or ex	cplosive li	mits			н 1 1.					
No data available											
Vapor pressureNo data	a availa	ble				111	1 - 1 1				
Vapor density	· .				.÷		· .	.:		· .	.:
No data available											
Relative density	1	ı	1 1		,		1				
7.09 g/mL at 25 °C (77	°F)										
Water solubility	,		,			,					
No data available	1							.1			.1
Partition coefficient: n-o											
No data available											
Auto-ignition temperatu No data available	lre		: • •			111			111		
No data available											
Decomposition temperation	ature	.1					1	1			
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No data available	· .	.:					1			1	.:
Viscosity											
No data available											
Explosive properties											
No data available	1		1	1		1	1		1		1
Oxidizing properties	1		н н н			1 - 1 1	1		н н н		.1
No data available Other safety informatior		· · ·		-			:		1 1 - 1		
No data available	1 I	н н Н	;	1 I	1 - 1 1	;**	1 - 1 1	н н Н	111	н н 1	
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	TAE	BILITY			ACTI		1			:	
Reactivity											
No data available		1 I		1 I	1 - 1 1			1 - 1 1	111		
Chemical stability Stable under recommer	nded st	torage co	onditions	· ;				.1		1	.:
Possibility of hazardous	reacti	ons									
No data available											
Conditions to avoid				1 1 1	н н н			н н н			
No data available	· .	.:									
Incompatible materials											
Strong oxidizing agents	, acids										
Hazardous decompositi											
Other decomposition pr	oducts	-No data	availab	le							
In the event of fire: see	section	า 5					1		1 - 1 1	1	.1
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SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity

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No data available	1			· .	.:		· .			4	.:
Inhalation: No data ava	ilable										
Dermal: No data availa	ble										
No data available											
Skin corrosion/irritation		1									
No data available	1					· · ·	1				.:
Serious eye damage/e	/e irritat	ion		:			:				
No data available	;	,		i	,					1	
Respiratory or skin sen	sitisatio	nNo data	availat	ole,	1 I						
Germ cell mutagenicity											
No data available	1			1							.:
Carcinogenicity					н н н						
IARC:											
No component of this p	roduct	present at	levels	greater	than or e	equal to	0.1% is	s identified	as		
unchable unceible au c		dhuman	arcino	aon hy							
probable, possible or c	ontirme										
NTP:	ontirme			gen by		н н н		.:		1	.1
					1	equal to	0.1% is	s identified	as a		
NTP:	product	present at	levels		1	equal to	0.1% is	s identified	as a		
NTP: No component of this p known or anticipated ca	product (arcinoge	present at en by NTP	levels	greater	than or e	-		s identified			
NTP: No component of this p known or anticipated ca	product arcinoge	present at en by NTP	levels	greater greater	than or e	equal to	0.1% is	dentified			
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Additional Information RTECS: Not available SECTION 12. ECOLOGICAL INFOR Toxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety Other adverse effects No data available SECTION 13. DISPOSAL CONSIDE Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed Contaminated packaging		· · · ·				
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Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed						
Offer surplus and non-recyclable solutions to a licensed	.' .	1			:	
		i.				
Contaminated packaging						
Dispose of as unused product.	.: : : :	5	3		1	
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DOT (US) Not dangerous goods

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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 No SARA Hazards Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Zirconium nitride CAS-No. 25658-42-8 New Jersey Right To Know Components Zirconium nitride CAS-No. 25658-42-8 California Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16. OTHER INFORMATION

SARA 302 Components

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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