

SAFETY DATA SHEET

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	CTION											
	uct Name					, , ,				1 I		
	#: 12004-;							1				
		55-0										
	/ant ident		ses of t	ne subs	tance: S	Scienti	fic resea	rch and	develo	opment	· · · .	
	lier detail											
Stant	ord Advan il: sales@s	ced Ma	terials	n i	:**			1.1.1		н н н	;**	
	949) 407-8				· .	,	· .	· ,		· .		
	ess: 23661											
		· · .						· · · ·			· · ·	
	CTION lassification											
Class GHS(ification a	ccording	g to Re	gulation	(EC) No	1272/2	2008	· · ·			۰۰,	
STOT	Г SE 3 Н3:	35 May	cause	respirato	ry irritati	on.						
	ification a										ł	
Xi; Irr	itant		1	1	1	, , ,		1	1 1 - 1	1	1	
R37:	Irritating to	o respira	atory sy	vstem.								
nforn	nation con	cerning	particu									
		0	•									
Other	⁻ hazards t	hat do i	not resi	ult in clas	sificatio	n No da	ata availa	ble :				
	^r hazards t abel eleme		not resi	ult in clas	sificatio	n Nọ da	ata availa	ble ;			:**	

according to the CLF	regulatio									
Hazard pictograms										
GHS07		•								
Signal word Warning]		,		,	,			,	
Hazard statementsH	335 May	cause re	spiratory	y irritati	on.			1	1	
Precautionary staten										
P261 Avoid breathin										
P304+P340 IF INHA	LED: Rer	nove per	son to fr	esh air	and kee	p comfoi	rtable fo	or breath	ing.	
P312 Call a POISON		R/doctor/i	f you fe	el unwe	ell.					
P405 Store locked u	p. ,	1	1					1		
P403+P233 Store in	a well-ve	ntilated p	lace. Ke	eep çor	ntainer tig	htly clos	ed.			
P501 Dispose of cor	itents/con	tainer in a	accorda	nce wit	h local/re	egional/r	ational	/internati	onal	
regulations.										
2.3 Other hazards										
Results of PBT and	vPvB ass	essment	1					1		
PBT: N/A			· · .			· · .			· · .	
vPvB: N/A										

CAS# Designation:							
12004-39-6 Aluminum titanium oxid			1 I		 1 I		
Identification number(s):		1 1 1		1			
EC number: 234-456-9				··	 	с.,	

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled:				· .						
Supply patient wi	ith fresh	n air. If	not breath	ning, pro	ovide a	rtificial res	piration	. Keep	patient wa	arm.
Consult	11. 1			1. A.			· · .			· · .
doctor if sympton	ns persi	ist.								
Seek immediate	medica	ladvice	Э.	: * *	, , ,	1 I				
In case of skin co	ontact:					· :				
Instantly wash wi										
Seek immediate	medica	ladvice	Э.	11			· · .	. * *		
In case of eye co										
Rinse opened ey						ater. Then				
If swallowed:	· .			· .						
Seek medical trea										
4.2 Most importa										
No data available	9									
4.3 Indication of a	any imn									1
No data available	9				1	`: :		1	1	

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media								
Suitable extinguishing agents	Product is	not flai	mmable	. Use fire	-fighting	g measi	ures that s	uit the
surrounding fire.		· · .			· · .			· · .
5.2 Special hazards arising fro	om the sub	stance	or mixt	ure If this	produc	t is invo	lved in a f	ire, the
following can be released:	н н н			н н н			н н н	
5.3 Advice for firefighters								
Protective equipment:Wear se								
Wear full protective suit.		· · ·	, , , ,		· · · .			··

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SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment	t and emerg	jency proced	dures		1		
Use personal protective equipment. Keep unpro							
Ensure adequate ventilation		· · ,	. * *		11		
6.2 Environmental precautions: Do not allow ma							
permits.							
6.3 Methods and materials for containment and							
Prevention of secondary hazards: No special m	ieasures re	quired.	. * *		11	. * *	
6.4 Reference to other sections							
See Section 7 for information on safe handling		:···					
See section 8 for information on personal prote	ction equip	ment.		· :	1		
See Section 13 for information on disposal.							
SECTION 7. HANDLING AND	STORA	GE		• •			
SECTION 7. HANDLING AND 7.1 Precautions for safe handling	STORA	GE				 	
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed.	STORA	GE				 	
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain	STORA ers.	GE	· · · · · · · · · · · · · · · · · · ·		arr 13. 14.	 	13
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work	STORA ers. place.	GE		· · · · · · · · · · · · · · · · · · ·		 	13
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work Information about protection against explosions	STORA ers. place.	GE	is not f	lammable	: ::. :	· · · · · · · · · · · · · · · · · · ·	
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work Information about protection against explosions	STORA ers. place.	GE	is not f	· · · · · · · · · · · · · · · · · · ·	: ::. :	· · · · · · · · · · · · · · · · · · ·	
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work	STORA ers. place. and fires: ncompatibili	GE The product ties	is not f	ammable	: 		
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work Information about protection against explosions 7.2 Conditions for safe storage, including any in Requirements to be met by storerooms and cor Information about storage in one common stora	STORA ers. place. and fires: ncompatibili ntainers: No	GE The product ties special req Not required	is not fi uiremei	ammable nts.	· · · · · · · · · ·		
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work Information about protection against explosions 7.2 Conditions for safe storage, including any ir Requirements to be met by storerooms and cor Information about storage in one common stora	STORA ers. place. and fires: ncompatibili ntainers: No	GE The product ties special req Not required	is not fi uiremei	ammable nts.	· · · · · · · · · ·		
SECTION 7. HANDLING AND 7.1 Precautions for safe handling Keep containers tightly sealed. Store in cool, dry place in tightly closed contain Ensure good ventilation/exhaustion at the work Information about protection against explosions 7.2 Conditions for safe storage, including any ir Requirements to be met by storerooms and cor Information about storage in one common stora Further information about storage conditions:	STORA ers. place. and fires: ncompatibili ntainers: No age facility:	GE The product ties special req Not required	is not fi uiremei	lammable	· · · · · · · · · · · · · · · · · · ·		

SECTION 8. EXPOSURE CONTROLS/PERSONAL

PROTECTION

Additional information about design of technical s	system	SI	· · .			· · .							
Properly operating chemical fume hood designed	l for ha	zardous c	hemica	ls and	having an	averaç	je						
face velocity of at least 100 feet per minute.													
8.1 Control parameters			· .			· .							
Components with critical values that require mon													
Additional information: No data			· · .			· · .							
8.2 Exposure controls													
Personal protective equipment		1 I	1 1 1										
General protective and hygienic measures			· .										
The usual precautionary measures should be adl	nered t	o in handl	ing the										
Keep away from foodstuffs, beverages and food.			· · ·			· · .							
Instantly remove any soiled and impregnated gar	ments	•											
Wash hands during breaks and at the end of the	work.												
Maintain an ergonomically appropriate working e	nvironi	ment.	·										
Breathing equipment: Use breathing protection w	ith hig	h concenti	rations.										
Protection of hands:Inspect gloves prior to use.													
The selection of the suitable gloves does not only of	/ depe	nd on the	materia	l, but a	Ilso on fur	ther ma	ırks						
quality and varies from manufacturer to manufact	urer.		`;			1							
Material of gloves Impervious gloves													
Eye protection: Safety glasses													
Body protection: Protective work clothing.		н н н	1 1 1 1			:							
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SECTION 9. PHYSICAL AND C													
						11. 1	111						

9.1 Information on basic physical and chemical properties

Appearance:

Form: Powder or solid in various forms

				1 1	1		 1			1
Colour: White			· .					· .		
Smell: Odorless										
Odor threshold: No data	a availab	ole.	· · ·	1			 		11	
pH: N/A										
Melting point/Melting rai							 			
Boiling point/Boiling ran	ge: No c	lata ava	ilable							1
Sublimation temperature	e / start:	No data	a availat	ole						
Flash point: N/A			· · .			· · .	 			
Inflammability (solid, ga	s) No da	ata availa	able,					111		
Ignition temperature: No	o data av	ailable	i i		i.	,		,		
Decomposition tempera	ature: No	data av	vailable				1			1
Self-inflammability: No o	data ava	ilable.	• • .				 			
Danger of explosion: Pr	oduct is	not exp	losive.							
Critical values for explos	sion:					111	 			
Lower: No data availabl										
Upper: No data availabl	e				1		 1			
Steam pressure: N/A			· · .				 			
Density No data availab	ole									
Relative density No data	a availat	ole.			1 - 1 1		 			
Vapor density N/A		•				· .	· .			
Evaporation rate N/A						,				
Solubility in / Miscibility	with		· · .				 			
Water: Insoluble										
Partition coefficient (n-o	octanol/w	/ater): N	o data a	availab	le.		 			
Viscosity:			· .					1		1
Dynamic: N/A										
Kinematic: N/A			· · ·			· · · .	 			
9.2 Other information N	o data a	vailable								
			1.1.1				 			
							1			

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity No data available
10.2 Chemical stability Stable under recommended storage conditions.
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions known
10.4 Conditions to avoid No data available
10.5 Incompatible materials: No data available
10.6 Hazardous decomposition products: No decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Irritant for skin and mucous membranes. Eye irritation or corrosion: Irritant effect. Sensitization: No sensitizing effect known.... Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

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SECTION 12. ECOLOGI		NFO	RMAT	ΓΙΟΝ	, , ,	1	1		
12.1 Toxicity	···.			··.			· · · .		
Aquatic toxicity: No data available									
12.2 Persistence and degradability No	data av	ailable	1 - 1 1	111	, , ,	н н н	111		
12.3 Bioaccumulative potential No dat	a availat	ble		1					
12.4 Mobility in soil No data available									
Additional ecological information:	· · · .								
Do not allow material to be released to	the env	rironme	nt withou	it official	permits	6.			
Generally not hazardous for water.				111					
Avoid transfer into the environment.	`:	1 1 1	`:	1					
12.5 Results of PBT and vPvB assess	ment								
PBT: N/A		ı		,				ı	
vPvB: N/A									
12.6 Other adverse effects No data av									
<u>, in an an an an an</u>		1 1 - 1							
and the second	· · ·			· · .			÷.,		
SECTION 13. DISPOSAL		ISID	ERAT	IONS					
13.1 Waste treatment methods			н н н	1.1.1		н н н	; • •		
Recommendation		1					×		
Hand over to disposers of hazardous						:			
Must be specially treated under adher	ence to d	official r	egulatior	าร.					
Consult official regulations for proper of	disposal.								
Uncleaned packagings:	111	1	1 - 1 1	111	, , ,		:		
Recommendation: Disposal must be n	nadejaco	ording	to officia	l regulati	ons.				
and the second	· · · .	. * *		· · · ·			· · · ·		

SECTION 14. TRANSPORT INFORMATION

UN-NumberADR, IMDG, IATA None 14.2 UN proper shipping name

ADR, IMDG, IATA None	1	· .		· .			· .	· :		
14.3 Transport hazard class										
ADR, IMDG, IATA		· · .	1		11.			11.		
Class None Packing group				1 - 1 1	111				1 1 - 1	
ADR, IMDG, IATA None		· ;		`: 						1
14.5 Environmental hazards										
14.6 Special precautions for										
14.7 Transport in bulk accore	ding to Anr	nex II of	MARP	OL73/78	and the	IBC				
Code N/A					,			,		
Transport/Additional informa	tion: Not d	angerou	us acco	rding to t	he abov	e speci	fications		н 1 — 1	

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SECTION 15. REGULATORY INFORMATION

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15.1 Safety, health and environmental regulations/legislation specific for the substance or n	nixture	1
Australian Inventory of Chemical Substances Substance is not listed.	:	
Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed.	· · .	
National regulations		
Information about limitation of use:	1	
Employment restrictions concerning young persons must be observed.		
For use only by technically qualified individuals.		
Water hazard class: Generally not hazardous for water.	1.	
Other regulations, limitations and prohibitive regulations		
ELINCS (European List of Notified Chemical Substances) Substance is not listed.		
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 19	907/20	06.
Substance is not listed.		
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. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

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