

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Aluminum Chromium Alloy

CAS #: 37258-56-3

Relevant identified uses of the substance: Scientific research and development

Supplier details:

Stanford Advanced Materials

E-mail: sales@samaterials.com

Tel: (949) 407-8904

Address: 23661 Birtcher Dr., Lake Forest, CA 92630 U.S.A.

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The substance is not classified as hazardous to health or the environment according to the CLP regulation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Not applicable

Information concerning particular hazards for human and environment:

No information known.

Hazards not otherwise classified...

No information known.

Not applicable.										,:	
PBT:	:		***	:	'		!**			:**	
Results of PBT a	nd vP	vB asse	essmen	t							
Other hazards			1,	1,		1,	1,		:,	1,	
Flammability = 0 Physical Hazard		. :		,:	. :			. :		.:	,
Health (acute eff	ects) =	= 0		: * *	, '		: "				
(Hazardous Mate	'	,			,			,			
HMIS ratings (sc		4) .	;	:		:			:	:	
Classification sys	stem		'	.:			.;			.:	
Not applicableW Not controlled	HMIS	classific	cation	:			:"			:"	
Hazard statemer	nts	,	,		,	,	,	,	,	,	,
Not applicable	:		;	;		;	1,		;	1,	
Signal word	.:		'	.;			.;			,:	
Hazard pictograr				;**			111				
Not applicable							1,		1,	1,	:
Labelling accord							.;			.:	•
_0.001 0.011101110					,			1			

Chemical characterization: Substances

CAS# Description:

37258-56-3 Aluminium Chromium Alloy

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General information

No special measures required.

After inhalation

Seek medical treatment in case of complaints.

After skin contact

Generally the product does not irritate the skin.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing

If symptoms persist consult doctor.

Information for doctor

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Special powder for metal fires. Do not use water.

For safety reasons unsuitable extinguishing agents

Water

Special hazards arising from the substance or mixture

If this product is involved in a fire, the following can be released:

Metal oxide fumeAdvice for firefighters

Protective equipment:

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Not required.

Environmental precautions:

Do not allow material to be released to the environment without proper governmental permits.

Do not allow product to reach sewage system or any water course.

Do not allow to penetrate the ground/soil.

Methods and material for containment and cleaning up:

Pick up mechanically.

Prevention of secondary hazards:

No special measures required.

Reference to other sections

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe handling

Keep container tightly sealed.

Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Do not store together with acids.

Store away from oxidizing agents.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Specific end use(s)

No further relevant information available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

No further data; see section 7.

Control parameters

Components with limit values that require monitoring at the workplace:

7429-90-5 Aluminum (100.0%)

PEL (USA) Long-term value: 15*; 15** mg/m³*Total dust; ** Respirable fraction

REL (USA) Long-term value: 10* 5** mg/m³

*Total dust **Respirable fraction

TLV (USA) Long-term value: 1* mg/m³

as Al; *as respirable fraction

EL (Canada) Long-term value: 1.0 mg/m³

metal and insoluble compdounds, respirable

EV (Canada) Long-term value: 5 mg/m³

aluminium-containing (as aluminium)

Additional information:

No data

Exposure controls

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

Maintain an ergonomically appropriate working environment.

Breathing equipment:

Not required.

Protection of hands:

Not required.

Penetration time of glove material (in minutes)

Not determined

Eye protection:

Safety glasses

Body protection:

Protective work clothing

Personal protective equipment

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid in various forms

Color: Not determined.

Odor: Not determined.

Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: Not determined.

Sublimation temperature / start: Not determined

Flammability (solid, gaseous)

Not determined.

Ignition temperature: Not determined

Decomposition temperature: Not determined

Auto igniting: Not determined.

Danger of explosion: Not determined.

Explosion limits:

Lower: Not determined

Upper: Not determined

Vapor pressure: Not applicable.

Density at 20 °C (68 °F): Not determined.

Relative densityNot determined.

Vapor density

Not applicable.

Evaporation rate

Not applicable.

Solubility in / Miscibility with Water: Insoluble

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic: Not applicable.

kinematic: Not applicable.

Other information

No further relevant information available.

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No information known.

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and s	stored	accord	ing to spe	cificatio	ns.		;	
Possibility of hazardous reactions								
Reacts with strong oxidizing agents	1.		1.	1.		1,	1,	
Conditions to avoid								
No further relevant information available.	: ' '	. '		: ' '	, '		:	
Incompatible materials:	, :		'	.:			.:	. :
Acids Contains agents	1,		1,	1,		1,	1,	: .
Hazardous decomposition products:	; ' '	, '			, '		; · ·	, .
Metal oxide fume		,			,			,
	.;		- (c) (c)					
SECTION 11. TOXICOLOG	ICA	L IN	FORM	ATIO	N	1.		
Information on toxicological effects	: ' '	. '		: ' '	, '		: ' '	
Acute toxicity: No effects known.	.1		'	.;		*	.:	
LD/LC50 values that are relevant for class	sificati	on:	1,	1,		1,	:,	: .
No data								
Skin irritation or corrosion:	: ' '	. '					: ' '	. • •
May cause irritation	;			;			;	
Eve irritation or corrosion:								
May cause irritation	1.		1.	1,		1.	1,	
Sensitization:								
No sensitizing effects known.	: ' '	. '		: ' '	, '		; ' '	. ' '
Germ cell mutagenicity:	,:		'	.:			.:	. :
No effects known. Carcinogenicity:	1,	: '	÷.	1,	: '	÷.	1,	
ACGIH A4: Not classifiable as a human c	arcino	gen: In	adequate (data on	which	to classify	the ago	ent
terms of its carcinogenicity in humans and	d/or ar	nimals.	'	.:	. :	'	.:	. :

Reproductive toxicity:

The Registry of Toxic Effects of Chemical Substances(RTECS) contains reproductive data for thissubstance.

Specific target organ system toxicity - repeated exposure:

No effects known.

Specific target organ system toxicity - single exposure:

No effects known.

Aspiration hazard:

No effects known.

Subacute to chronic toxicity:

The Registry of Toxic Effects of Chemical Substances (RTECS) contains multiple dose toxicity data for this substance.

Additional toxicological information:

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

No further relevant information available.

Persistence and degradability

No further relevant information available.

Bioaccumulative potential

No further relevant information available.

Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:

Do not allow material to be released to the environment without proper governmental permits.

Avoid transfer into the environment.

PBI:		1	1							
Not applicable.	·	·	·	·			·	,		·
vPvB:										
Not applicable.				,						
Other adverse effects	. :		.:	. :		.;		'	.;	
No further relevant info	ormatio	n available	e.		1,	1,		1,	1,	
SECTION 13.	DISP	OSAL	CON	NSID	ERAT	IONS				
Waste treatment meth	ods		.:			.;	. :	'	.;	. :
Recommendation					1,	1,		1,	1,	
Consult state, local or	nationa	al regulatio	ns to e	nsure p	roper di	sposal.				
Uncleaned packaging	s:		: ' '			: ' '				
Recommendation:										
Disposal must be mad	le accoi	rding to of	ficial re	gulatior	ns.		. :			. :
	1 1	1	1	1 1	1	1		1,	:.	
SECTION 14.	TRAI	NSPOF	RT: IN	IFOR	RMAT	ION				
UN-Number			.:		'				,1	
DOT, ADN, IMDG, IAT			,							
· · · · · · · · · · · · · · · · · · ·										

Not applicable UN proper shipping name

Results of PBT and vPvB assessment

DOT, ADN, IMDG, IATA

Not applicable

Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA

Class

Not applicable

Packing group

DOT, IMDG, IATA

Not applicable	.: .		. '				, :		'	.:
Environmental ha	azards:									
Not applicable.	1.	,	1.	1,		1.	1,		1.	1.
Special precautio										
Not applicable.		.'		! ' '			! ' '			
Transport in bulk	accordin	ig to Ar	nnex II of	MARPO	DL73/78	3 and the	IBC Co	de	'	.:
Not applicable.	:		:	:		1.	:		:	:
Transport/Additio	nal infori			· ,			·,	•		
DOT										
Marine Pollutant										
No	.:		· ·	. :		'	. :		'	.:
	:, :	•	1	1,		1,	1,		· .	;
SECTION 1	5. RE	GUL	ATOF	RYIN	IFOR	RMATIC	NC			:
Safety, health an	d enviror	nmenta	l regulatio	ns/legi	slation	specific fo	r the su	ubstanc	e or mixtu	re
National regulatio			.'	.:		'	. :		'	. :
All components o	of this pro	duct ar	e listed ir	the U.	S. Envi	ronmenta	l Protec	ction Ag	ency Toxi	C
Substances Cont	rol Act C	hemica	al substar	ice Inve	entory.					
All components o	of this pro	duct ar	e listed o	n the C	anadia	n Domest	ic Subs	tances	List (DSL)).
SARA Section 31	3 (specif	fic toxic	chemica	Listing	s),	'	:		'	:
7429-90-5 Alumir	num			, '						
California Propos	ition 65	,	1,	1,		1,	1,		1,	1,
Prop 65 - Chemic	cals knov	vn to ca	ause cand	er						
Substance is not	listed.	. '		: ' '			: ' '			: ' '
Prop 65 - Develo	pmental	toxicity	.*	.:		'	.:		'	.:
Substance is not	listed.									
Prop 65 - Develo	pmental	toxicity	, female			`.			1.	
Substance is not	listed.									
Prop 65 - Develo				'	, '		•	. '		

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

This product is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right to Know Act of 1986 and 40CFR372.

Other regulations, limitations and prohibitive regulations

Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. 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.

REACH - Pre-registered substances

Substance is listed. 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.