

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Chromium Acetylacetonate

CAS #: 21679-31-2

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 in accordance with 29 CFR 1910 (OSHA HCS)

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Hazards not otherwise classified

No data available

GHS label elements

GHS label elements, including precautionary statements

Hazard pictograms

Signal word

Warning		٠						٠			٠.,
Hazard statemen	its										
H315 Causes ski	n irritati	on.			' ' '						
H319 Causes se	rious ey	e irritat	ion.								
Precautionary sta	atement	s			, ;	**.		, ;		: '	
P280 Wear prote	•			Ū			•		P305+P35	1+P338	BIF
lenses, if present	and ea	sy to d	o. Continu	ue rinsir	ıg.						
P362 Take off co	ntamina	ated clo	othing.								
P321 Specific tre	atment	(see or	n this labe	el).		**,	! ' '		**,	: ' '	. :
P332+P313 If ski	in irritati	on occ	urș: Get n	nedical	advice/	attention.			4.		٠
P337+P313 If ey	e irritati	on pers	sists: Get ı	medical	advice	/attention.		,			
WHMIS classifica	ation										
D2B - Toxic mate	erial cau	sing ot	her toxic	effects							
Classification sys	stem	.'		,	'		,	'		,	. '
HMIS ratings (sc	ale 0-4)		1		1	1.	٠٠,		1.	٠٠,	٠.,
(Hazardous Mate	erials Ide	entifica	tion Syste	m)							
HEALTH											
FIRE	: ' '	,;		: ' '	, :		: ' '	,:		: • •	.:
REACTIVITY											
1			' .		1.1		'''	1.1		···.	
1		1									٠
1											
Health (acute effe	ects) =	1.:		: ' '	. :		: ' '	.:		: ' '	.:
Flammability = 1			4			1			1		
Physical Hazard	= 1										
Other hazards		1			1			1	: .		٠
Results of PBT a											
PBT:	: '		• •	111	.1				٠.	: ' '	. :
N/A			1					٠			٠

N/A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

CAS No. / Substance Name:

21679-31-2 Chromium(III) 2,4-pentanedionate

Identification number(s):

EC number:

244-526-0

SECTION 4. FIRST AID MEASURES

Description of first aid measures

If inhaled:

Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm.

Seek immediate medical advice.

In case of skin contact:

Immediately wash with soap and water; rinse thoroughly.

Seek immediate medical advice.

In case of eye contact:

Rinse opened eye for several minutes under running water. Consult a physician.

If swallowed:

Seek medical treatment.

Information for doctor

Most important symptoms and effects, both acute and delayedNo data available

Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents

Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture

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

Carbon monoxide and carbon dioxide

Chromium oxides

Advice for firefighters

Protective equipment:

Wear self-contained respirator.

Wear fully protective impervious suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

Do not allow product to enter drains, sewage systems, or other water courses.

Methods and materials for containment and cleanup:

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.

Ensure good ventilation at the workplace.

Information about protection against explosions and fires:

No data available

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

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 data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical systems:

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

Control parameters

Components with limit values that require monitoring at the workplace:

None.

Additional information:

No data

SECTION 9. PH	YSI	CAL A	ND (CHE	ИICAL	PRO	PEF	RTIES		٠
ter termination	1	10			14		1	10.		1
Protective work clothing	. , ;		: ' '	. 1	***	:''	.:		:"	. ;
Body protection:										
Safety glasses	1						100			٠
Eye protection:										
manufacturer.				1				4.		٠
by ::	.:		: ' '	.:		: ' '	.:		: "	.:
Suitability of gloves show	uld be	determine	d both	by mat	erial and	quality,	the latt	er of whi	ch may v	/ary
Inspect gloves prior to u	se.						1			٠
Protection of hands: Impervious gloves	٠	1.		1	14		٠	٠.,		٠
use equipment tested ar	nd app	roved und	er appı	ropriate	governm	ient stai	ndards	•	: ' '	. ;
Risk assessment should	-								opriate. (Only
Use a respirator with typ	e Ņ95	(USA) or	PĘ,(EN	l 143) d	cartridges	as a ba	ackup t	o engine	ering cor	ntrols
Recommended filter dev										
Use suitable respirator v				ns are p		, .	٠	4.		
						:"	.:		: "	.:
Maintain an ergonomica	lly app	ropriate w	orking	enviror	ment.					
Avoid contact with the e							1			٠
Wash hands before brea	aks and	d at the er	nd of wo	ork.	14.		1	1.		
Remove all soiled and c	ontami	nated clot	thing in	nmedia	tely.		,	,		,
Keep away from foodstu	iffs, be	verages a	nd feed	d. :			.:		; * *	;
Follow typical protective	and hy	ygienic pra	actices	for han	dling che	micals.				
Personal protective equi										.,,
Exposure controls		1.			1					٠

Information on basic physical and chemical properties

Appearance:

Form: Crystalline

Color: Violet

Odor: No data available

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 216 °C (421 °F)

Boiling point/Boiling range: 340 °C (644 °F)

Sublimation temperature / start: No data availableFlammability (solid, gas)

No data available

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: No data available.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 1.35 g/cm

3

(11.266 lbs/gal)

Relative density

No data available.

Vapor density

N/A

Evaporation rate

N/A

Solubility in / Miscibility with Water at 25 °C (77 °F): 1.1 g/l

Partition coefficient (n-octanol/water): No data available.

Viscosity:

Dynamic: N/A

Kinematic: N/A

SECTION 10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Thermal decomposition / conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

Possibility of hazardous reactions

Reacts with strong oxidizing agents

Conditions to avoid

No data available

Incompatible materials:

Oxidizing agents

Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Chromium oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:

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

LD/LC50 values that are relevant for classification:

Oral LD50 3360 mg/kg (rat)Skin irritation or corrosion:

Causes skin irritation.

Eye irritation or corrosion:				1			1.		٠,
O									
Sensitization:			'			'			',
No sensitizing effects known									
Germ cell mutagenicity:	***	: ' '	. !	***	111	. !		: ' '	. ;
No effects known.	14,			10			1.		٠,
Carcinogenicity: EPA-D: Not classifiable as to	human ca	rcinoge	nicity: i	nadequa	ate huma	n and a	animal ev	vidence o	f
carcinogenicity or no data ar	e available								
ACGIH A4: Not classifiable a	as a human	carcino	ogen: Ir	nadequa	te data o	n which	n to class	ify the ag	jent
n	1.	• • •				1	1.		٠,
terms of its carcinogenicity ir	n humans a	nd/or a	nimals.						٠,
Reproductive toxicity:									
No effects known.			;			;			:
Specific target organ system	toxicity - re	epeated	expos	ure:					
No effects known.	10	• •		10			14,	٠٠,	٠,
Specific target organ system	toxicity - s	ingle ex	posure	:					٠.
No effects known.									
Aspiration hazard:		: ' '			111			: "	,:
No effects known.									
Subacute to chronic toxicity:	10			'''			· · ·		
No effects known.	: .		٠			٠	: .		٠.
Additional toxicological inform	mation:								
To the best of our knowledge	e the acute	and ch	ronic to	xicity of	this subs	tance i	s not full	y knöwn.	.:
the stage of the	14			10		1	14,		٠,

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity:

No data available

			٠,	100	14.					٠
SECTION 13. D										
No data available				1	: .			:.		٠
N/A Other adverse effects	100	1.		1	4.		1	4		٠
/PvB:	.:			.:		;**	.;		:	.:
PBT:	1		•••	1			1			٠
Results of PBT and vPv										
Avoid transfer into the e	environr	ment.								
Do not allow undiluted p systems.										
Additional ecological in										
No data available	1	10	• • •	٠	1.	• • •	1	19		٠
No data available Mobility in soil	.:					;**	.1	υ,	:	.:
Bioaccumulative potent	ial	: .			:.			: .		٠
Persistence and degrad	adomity	''. -		'	''. 	**,	'	''. 		٠
Parsistance and degrad	dahility									

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number

BOT, ADIN, IMBO, II	NIA	'',		'	1			٠.,		'
N/A										
UN proper shipping	name			'			'	: .		
DOT, ADN, IMDG, IA										
N/A ::-			!''		٠٠.	: "		**.	111	
Transport hazard cla	ass(es)	٠.,	• •		٠.,		1	1.	٠٠.	٠
DOT, ADR, ADN, IM	IDG, IATA									
Class										
N/A	:			;			1		: ' '	:
Packing group	,	,		,	,		,	,		
DÖT, IMDG, IATA	*	10			14.		1	14.		٠.,
N/A :										٠
Environmental hazar										
N/A	.:		: ' '	, 1		111			: "	.:
Special precautions										
N/A		· · ·		'	· · .		'	14		
Transport in bulk acc	cording to	Annex I	I of MAR	POL73	3/78 and	the IBC (Code			٠
N/A										
Transport/Additional	information	on:		, 1			.:		: ' '	
DOT			0.		4	0.				
Marine Pollutant (DC	DT):									
No	1			1			1			
ji o o, o			111	,1		111	.:		:	,:
SECTION 15.	REGI	JLAT	ORY	INFC	RMA	TION				
0.4.0.0.0.0.0		1	•	111		**	10	14.		
SARA 302 Compone	ents									

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

This material does not contain any chemical components with known CAS numbers that exceed the

SARA 313 Components

threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Chromium(III) 4-oxopent-2-ene-2-olate

CAS-No.

21679-31-2

Revision Date

2007-03-01New Jersey Right To Know Components

Chromium(III) 4-oxopent-2-ene-2-olate

CAS-No.

21679-31-2

Revision Date

2007-03-01

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

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.