

#### SAFETY DATA SHEET

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#### **SECTION 1. IDENTIFICATION**

Product Name: Chromium(III) Iodide

CAS #: 13569-75-0

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)

GHS06 Skull and crossbones

Acute Tox. 3 H301 Toxic if swallowed.

**GHS05** Corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1

H318 Causes serious eye damage.

Hazards not otherwise classified

No data available

GHS label elements

GHS label elements, including precautionary statements Hazard pictograms **GHS05 GHS06** Signal word Danger Hazard statementsH301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapors/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 3 Flammability = 0 Physical Hazard = 1

Other hazards

Results of PBT and vPvB assessm	ent		٠,,			٠,,		
PBT:								
N/A	: '							
vPvB:								
N/A	: ' '	. ' '		:				, ' '
<del></del>								
SECTION 3. COMPOS	ITION/II	NFO	RMAT	ION (	II NC	NGRE	DIEN	TS
Substances	111						: "	
CAS No. / Substance Name:								
13569-75-0 Chromium(III) iodide	• • •		1.			1.		٠٠,
Identification number(s):	:							
EC number: 236-991-3								
				1			,	
SECTION 4. FIRST AIL	) MEAS	URE	S			· 10.		٠٠,
Description of first aid measures							: '	
General information								
Immediately remove any clothing s	oiled by the	produc	ot.	: ' '			111	
If inhaled:								
Supply patient with fresh air. If not								,
Seek immediate medical advice.	: '							
In case of skin contact:								
Immediately wash with soap and w	ater; rinse t	horoug	hly.	: ' '	, ' '		111	
Seek immediate medical advice.			1			1		
In case of eye contact:Rinse opene	- , ,				, -,			
If swallowed:								
Seek medical treatment.	:**			: ' '			111	

Information for doctor

Most important symptoms and effects, both acute and delayed

Causes severe skin burns.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed

No data available

#### **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

Suitable extinguishing agents

Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

Special hazards arising from the substance or mixture

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

Toxic metal oxide fume

Hydrogen iodide (HI)

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 material to be released to the environment without official permits.

Methods and materials for containment and cleanup:

Use neutralizing agent.

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

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: The product is not flammable

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.

Store away from water/moisture.

Further information about storage conditions:

This product is hygroscopic.

Store under dry inert gas.

Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

Protect from humidity and water.

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 Exposure controls Personal protective equipment Follow typical protective and hygienic practices for handling chemicals. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Inspect gloves prior to use. Suitability of gloves should be determined both by material and quality, the latter of which may vary by manufacturer. Penetration time of glove material (in minutes)

No data available

Eye protection:

Tightly sealed goggles

Full face protection

Body protection:

Protective work clothing.

# SECTION 9. PHYSICAL AND CHEMICAL PROPERTIESInformation on basic physical and chemical properties

Appearance:

Form: Crystalline

Color: Black

Odor: No data available

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: >600 °C (>1112 °F)

Boiling point/Boiling range: No data available

Sublimation temperature / start: No data available

Flammability (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): 4.915 g/cm

SECTION 1 Reactivity							/ITY				. • •
							*				,
No data available											
Other information											
Kinematic: N/A	: • •	. * *			. * *		:**			: * *	, ' '
Dynamic: N/A											
Viscosity:											
Partition coefficier	nt (n-od	ctanol	/water):	No data	availab	le.			1.		
O): No data availa		1									
2										:	
Solubility in Water		,	•	•	1	,	,	,	,		
N/A											
Evaporation rate			٠,			4.			1.		
N/A	: ' '	. * *		: ' '	. * *		111			: ' '	
Vapor density											
No data available.											:
Relative density											
(41.016 lbs/gal)									,		

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

No dangerous reactions known

Conditions to avoid

No data available

Incompatible materials:

Water/moisture	1.			٠,			٠,		
Oxidizing agents									
Hazardous decomposition pr	oducts:								
Toxic metal oxide fume									
Hydrogen iodide (HI)									. ' '
SECTION 44 TOX				IFORI		ONI.			
SECTION 11. TOX	ICOLC	GICA	AL IIV	IFURI	VIAII	JN			
Information on toxicological e	effects	; * *			: ' '			: ' '	
Acute toxicity:									
Toxic if swallowed.	''.								٠٠,
Swallowing will lead to a stro	ng corrosi	ve effec	t on mo	outh and	throat a	nd to th	e danger	rof ;	
perforation of esophagus and	d stomach								
LD/LC50 values that are rele	vant for cl	assificat	tion:		: ' '			; · ·	
No data									
Skin irritation or corrosion:			'''	11					'''
Causes severe skin burns.		: '						: .	
Eye irritation or corrosion:									
Causes serious eye damage		: ' '			: ' '			: • •	
Sensitization:									
No sensitizing effects known									
Germ cell mutagenicity:									
No effects known.									
Carcinogenicity:		: ' '	, ' '		: ' '	, ' '		111	. ' '
EPA-D: Not classifiable as to	human ca	arcinoge	enicity:	inadequa	ate huma	ın and a	animal ev	/idence o	of
carcinogenicity or no data are	e available	Э.							
ACGIH A4: Not classifiable a	ıs a humaı	n carcin	ogen: lı		1			sify the a	
terms of its carcinogenicity in	humans a	and/or a	nimals		: ' '	.**		111	
Reproductive toxicity:	1			٠,			٠,		

No effects known.					1.			1.		
Specific target organ sys	tem to	oxicity - r	eneated	l exnos	ure.					
No effects known.										
Specific target organ sys	tem to	oxicity - s	ingle ex	posure	<b>:</b> :					
No effects known.	. ' '		111	, ' '		111	, ' '		111	. ' '
Aspiration hazard:		1			1			4,		٠٠,
No effects known.										
Subacute to chronic toxic		,	,	,	,	,	,	,	,	,
No effects known.			: • •							
Additional toxicological in										
To the best of our knowle	edge t	he acute	and ch	ronic to	oxicity of	this subs	stance i	s not full	y known.	٠٠,
SECTION 12. E	COL	.OGIC	AL II	NFO	RMA1	ΓΙΟΝ	,		: "	,
Toxicity										
Aquatic toxicity:		'.		,	'.			·,		
No data available										: '
Persistence and degrada	•									
No data available	. * *		111	. ' '		111	. ' '			
Bioaccumulative potentia	al				4			4,		
No data available										
Mobility in soil										
No data available										
Additional ecological info	rmatio	on:		. ' '			. ' '			. ' '
Do not allow material to l	be rele	eased to	the env	ironme	nt withou	ıt official	permits	3. ·		
Do not allow undiluted pi		_			–			courses	, or sewa	ge
systems.	•	•	1	,			,	•		,
Avoid transfer into the er				PBT ar	id vPvB a	assessm	ent		: ' '	
PBT:		• • •	,	, ' '		,	.''		,	
N/A		1.		,	1			1		٠٠.

SECTION 13. [								1
Waste treatment metho					1			. :
Recommendation								
Consult official regulati	ons to	ensure p	roper dis	sposal.				
Uncleaned packagings	: '''	1		• • •	10		•••	٠.,
Recommendation:								
Disposal must be made								
			1			1		
SECTION 14. 1	ΓRΑΙ	NSPO	RTIN	FOR	RMATI	ON		1
UN-Number	: .							
DOT, IMDG, IATA								
UN3260			;**	, ' '				
UN proper shipping na								
Corrosive solid, acidic,	inorga	nic, n.o.s	s. (Chron	nium(III	) iodide)			, ,
IMDG, IATA								
CORROSIVE SOLID, A	ACIDIC	C, INORG	ANIC, N	.O.S. (	Chromiu	m(III) iod	lide)	
Transport hazard class	s(es)	1			1			٠,
DOT Class								* :
8 Corrosive substances	S.			.**		111		
8		· .			4			٠.,

vPvB:

N/A

Other adverse effects

No data available

Class			٠,			٠,			٠,		
8 (C2) Corrosiv	e substa	nces									
Label	: '				,				. :	: '	,
8											
o IMDG, IATA	111	. ' '		: ' '	. ' '		111	. ' '		:	, '
Class			1.		• •	1.			٠.,		
8 Corrosive sub	ostances.								. :		
Label											
8	111			: ' '			111	.**		: "	
Packing group DOT, IMDG, IA											
DOT, IMDG, IA	TA										
III. · · · ;											:
Environmental	hazards:										
N/A	: ' '			: ' '	. * *					: ' '	, .
Special precau	tions for										
Warning: Corro	sive sub	stance	es		• • •		• • •	'',			
Transport in bu	lk accord	ling to	Annex II	of MAR	POL73	/78 and	the IBC	Code			:
N/ATransport/A	Additional	inforn	nation:								
DOT	:**	. * *		: ' '	. * *		: ' '			: ' '	
Marine Pollutar No	nt (DOT):		4,			100			9,		
UN "Model Reg	gulation":	: '	• :				:		. :	: '	
UN3260, Corro	sive solic	d, acid	ic, inorga	anic, n.o.	s. (Chr	omium(I	II) iodide	), 8, III			
										: "	
			4,								

# **SECTION 15. REGULATORY INFORMATION**

Safety, health and environmental regulations/legislation specific for the substance or mixture GHS GHS label elements, including precautionary statements

Hazard pictograms

GHS05

GHS06 Signal word Danger Hazard statements H301 Toxic if swallowed. H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapors/spray. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. National regulations All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. All components of this product are listed on the Canadian Non-Domestic Substances List (NDSL). SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity

Substance is not listed.

Prop 65 - Developmental toxicity, female

Substance is not listed.

Prop 65 - Developmental toxicity, male

Substance is not listed.

Information about limitation of use:

For use only by technically qualified individuals.

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) No1907/2006 (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.

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.