

SAFETY DATA SHEET

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	1			1			1		Dat	e Revis	ed: 23/11	/2022
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SEC	CTION	1. ID	ENT	IFICA	TION							
	Lot Nome										111	
	uct Name #: 10378-					-				·		
CAS	#: 10378-	49-1			,							
Relev	ant ident	ified us	ses of t	he subs	stance: S	Scienti	fic resea	rch and	develo	opment		
	lier detai											
Stanfo	ord Advar	iced Ma	terials		1 1 1		`:	: • •		1	111	
E-mai	ll: sales@	samate	rials.co	m								
	949) 407-8									1 		
	ess: 2366´								.;			
SEC	CTION	2. H		RDS I	DENT	IFIC		N				
Class	ification o	f the su	bstance	e or mixt	ure in ac	cordan	ce with 2	9 CFR 1	910 (O	SHA HC	S)	
GHSC)7											
Skin I	rrit. 2 H31					. '			. '			. '
Eye Ir	rit. 2A H3	19 Cau	ses ser	ious eye	e irritation	I. ,	· .				111	
	SE 3 H3			•	ory irritati	on.						
Hazar	rds not otl	nerwise	classifi	ied No d	ata availa	able	1			1		
	label elen											
	rd pictogra						:			1		
)7											
Signa	I word Wa	arning										

			1								
Hazard statement	ts		`			1			1		
H315 Causes ski											
H319 Causes ser	ious eye	irritatio	on.								;
H335 May cause	respirato	ory irrita	ation.								
Precautionary sta	Itements	P261 A	void brea	athing d	ust/fum	ne/gas/mis	st/vapor	s/spray	· · ·		 :
P280 Wear prote	ctive glov	/es/prc	tective clo	othing/e	eye pro	tection/fac	ce prote	ction.	1		
P305+P351+P33	8 IF IN E	YES: I	Rinse cau	tiously	with wa	ter for sev	veral m	inutes.	Remove o	contact	
lenses, if present	and easy	y to do	. Continue	e rinsin	g.	1			1		1
P304+P340 IF IN	HALED:	Remo	ve person	to fres	h air ar	nd keep co	omfortal	ble for l	preathing.		
P405 Store locke	d up.		;			1					
P501 Dispose of	contents/	/contai	ner in acc	ordanc	e with I	ocal/regio	nal/nati	onal/in	ternationa	ŀ	
regulations.		1			. :						:
WHMIS classifica	ition										
D2B - Toxic mate	rial causi	ing oth	er toxic e	ffects		1			`:	; • •	 ;
Classification sys											
HMIS ratings (sca	ale 0-4)			1		1 					
(Hazardous Mate	rials Iden	itificati	on Syster	m [.])	. :	1					:
HEALTH											
FIRE					, , ,		; • •			; • •	 :
REACTIVITY			·			·			·		
1											
0											:
1											
Health (acute effe	ects) = 1										 ;
Flammability = 0			5			'			1		
Physical Hazard =			· .		1	· .					
Other hazards			i			1			1		
Results of PBT ar	nd vPvB	assess	sment			· .			· :		
PBT: N/A											
vPvB: N/A			1			1			1		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances CAS No. / Substance Name: 10378-49-1 Sodium tetrabromoaurate (III) 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 delayed: Sensitivity to light Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5. FIREFIGHTING MEASURES

Extinguishing media Suitable extinguishing agents Water spray

Carbon dioxide				1			1			
For safety reasons unsuital	ble extinguis	hing ag	ents Dr	ry chemical						
Special hazards arising from	m the substa	ance or	mixture	•						
If this product is involved in										
Hydrogen bromide (HBr)								1.1		
Advice for firefighters				·			1			
Protective equipment:	1			`;		.:	· .		.:	
Wear self-contained respira	ator.									
Wear fully protective imper	vious suit.	; · ·		1			1			1
in the province				1			1			۰.
SECTION 6. ACC										
Personal precautions, prote	active equipr	ment an	d emer		adura					
Use personal protective eq						5				
Ensure adequate ventilatio		ep unpi		i persons a	way.	1		1		
	·						mont wit	thout offi	cial	1.
permits.										
										i
Methods and materials for			-							
Prevention of secondary ha										
Reference to other sections							1			·
See Section 7 for information		-				:	· .		:	
See Section 8 for information	on on persor	nal prote	ection e	equipment.		1	1			
See Section 13 for disposa										
						1 - 1				
SECTION 7. HAN							1			
a a a a a a a						.1	1		.:	
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: No data available 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
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Additional information about design of technical systems:Properly operating chemical fume hood designed for hazardous chemicals and having an average
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: Not required.
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.

The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary

from manufacturer to manufacturer.

Eye protection: Safety glasses

Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical pro	perties							
Appearance:		1			1. 			,
Form: Crystalline powder	:	· .			· .		:	,
Odor: Odorless				,				
Odor threshold: No data available.	1				· .			,
pH: N/A								
Melting point/Melting range: No data available		1	. * *		1 	. 11		
Boiling point/Boiling range: No data available	.1			.1	· .			,
Sublimation temperature / start: No data availa	ble							
Flash point: N/A			; • •			: * *		,
Flammability (solid, gas) No data available.					1			,
Ignition temperature: No data available								
Decomposition temperature: No data available	.1						1	
Autoignition: No data available.								
Danger of explosion: Product does not present	an expl	osion haza	ard.			: * *		,
Explosion limits:		5			·			,
Lower: No data available								
Upper: No data available								
Vapor pressure: N/A								
Density: No data available	1							
Relative density No data available.		1			1			

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Vapor density N/A	۹,,,		·			1			5			·
Evaporation rate	N/A											
Solubility in / Misc	cibility	with	1			1			1		.1	1
Water: No data av												
Partition coefficie	nt (n-o	ctanol	/water): I	No data a	availab	le.						
Viscosity:			1	. **		1 1			1.1			÷.,
Dynamic: N/A		.:			. :	· .		.1			.:	
Kinematic: N/AOt												
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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 Gold can form explosive compounds with ammonia, ammonium hydroxide + aqua regia, and hydrogen peroxide. Conditions to avoid No data available Incompatible materials: No data available Ultraviolet radiation Hazardous decomposition products: Hydrogen bromide Metal oxide fume

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects Acute toxicity: No effects known.

LD/LC50 values that are relevant for classification. No data

Skin irritation or corrosion: Causes skin irritation.

Eye irritation or corrosion: Causes serious eye irritation.

Sensitization: No sensitizing effects 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:

Gold compounds may cause irritation to the eyes and respiratory tract. Aplastic anemia may result

from damage to the blood forming organs. Gold has caused

tumors and reproductive effects in laboratory animals via implant, intraperitoneal and subcutaneous routes.

Inorganic bromides may produce depression, emaciation and in severe cases, psychosis and mental deterioration. Bromoderma, a bromide rash, often occurs when

bromide inhalation or administration is prolonged. This rash is usually found on the face and resembles acne and furunculosis.

May cause photosensitivity. Exposure to light can result in allergic skin reactions such as edematous swelling and dermatitis. May cause discoloration of the skin.

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.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity

								,		
Aquatic toxicity: No data availa	able			1			·			
Persistence and degradability	No data a									
Bioaccumulative potential No	data availa	able							.:	,
Mobility in soil No data availab	ole									
Additional ecological informati	ion:			1			1			
Do not allow material to be rel	leased to th	he envi	ronmer	nt without	official _l	permits	- ¹			
Do not allow undiluted produc	t or large q	quantitie	es to re	ach grour	ndwater	water	courses,	or sewa	age	
systems.						. '	1			
Avoid transfer into the environ	iment.		,			,				
Results of PBT and vPvB asse	essment									
PBT: N/A	1. 			1			1			
vPvB: N/A				1						
Other adverse effects No data	a available									
SECTION 13. DISP	OSAL	CON	SIDE	ERATI	ONS					
Waste treatment methods	1			· :		.1			.1	
Waste treatment methods Recommendation Consult offic							4		.:	
	cial regulat	tions to	ensure	e proper c	lisposal.					
Recommendation Consult office	cial regulat	tions to	ensure	e proper c	lisposal.		14 14	:		
Recommendation Consult offic Uncleaned packagings: Recommendation: Disposal m	cial regulat nust be ma	tions to	ensure	e proper c o official	lisposal.	ons.	a Na	:** :**		
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal m	cial regulat nust be ma	de acco	ording t	e proper c o official	lisposal. regulatio	ons.	a Na	:** :**		
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal m SECTION 14. TRAN	cial regulat nust be ma NSPOR	tions to de acco T IN	ording t	e proper c o official MATIC	regulatio	ons.	13 14 13	:** .**		
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal m	cial regulat nust be ma NSPOR	tions to de acco T IN	ording t	e proper c o official MATIC	regulatio	ons.	13 14 13	:** .**		
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal m SECTION 14. TRAN	cial regulat nust be ma NSPOR ransportati	tions to de acco CT IN ion.	ording t	e proper d o official MATIC	regulatio	ons.		:** .** 	· · · · · · · · · · · · · · · · · · ·	
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal material SECTION 14. TRAN Not a hazardous material for t UN-Number	cial regulat nust be mad NSPOR transportati	tions to de acco ST IN ion.	ording t	e proper d o official MATIC	lisposal. regulatio	ons.		 		•
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal material SECTION 14. TRAN Not a hazardous material for t UN-Number	cial regulat nust be mad NSPOR transportati	tions to de acco ST IN ion.	ording t	e proper d o official MATIC	lisposal. regulatio	ons.		 		•
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal managemendation: Disposal managemendation: SECTION 14. TRAN SECTION 14. TRAN Not a hazardous material for t UN-Number DOT, IMDG, IATA None UN proper shipping name	cial regulat nust be mad	tions to de acco serve s	ording t	e proper d o official MATIC	lisposal. regulatio	ons.				•
Recommendation Consult office Uncleaned packagings: Recommendation: Disposal managemendation: Disposal managemendation: SECTION 14. TRAN SECTION 14. TRAN Not a hazardous material for t UN-Number DOT, IMDG, IATA None UN proper shipping name	cial regulat nust be man NSPOR transportati	tions to de acco to ac	ording t	e proper d o official MATIC	lisposal. regulatio	ons.				•

Class None		
Packing group		
DOT, IMDG, IATA None		
Environmental hazards: N/A		
Special precautions for user N/A		
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A		
Transport/Additional information: Not dangerous according to the above specifications.		
DOT		
Marine Pollutant (DOT): No		
na second de la companya de la comp La companya de la comp		
SECTION 15. REGULATORY INFORMATION		
Safety, health and environmental regulations/legislation specific for the substance or mixture		
GHS label elements, including precautionary statements		
Hazard pictograms GHS07		
Signal word WarningHazard statements		
H315 Causes skin irritation.		
H319 Causes serious eye irritation.		
H335 May cause respiratory irritation.		
Precautionary statements		
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.		:
P280 Wear protective gloves/protective clothing/eye protection/face protection.		
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove co	ontact	
lenses, if present and easy to do. Continue rinsing.		
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.		
P405 Store locked up.		
P501 Dispose of contents/container in accordance with local/regional/national/international		
regulations.		

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. 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) 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. 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.