

SAFETY DATA SHEET

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SECTION 1. IDENTIFICATION

Product Name: Rubidium Iodide

CAS #: 7790-29-6

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)

The substance is not classified according to the Globally Harmonized System (GHS).

Hazards not otherwise classified

No data available

GHS label elements

N/A

Hazard pictograms

N/A

Signal word

N/A

Hazard statements	;			; '		1	:		';	
N/A										
WHMIS classification	:		1	;	:	1	:	:	1	:
Not controlled										
Classification system	. :	. ' '			. '	:"				
HMIS ratings (scale 0-	4)		1;	;		' ;	;		1	:
(Hazardous Materials Health (acute effects)	:	ation Sy	rstem)	;	:	1	;'		·	
Flammability = 0 Physical Hazard = 00			:"	. :	.e*	111			:"	
Results of PBT and vF	PvB ass	essment	: ':	; '	• • •	1:	;	٠٠,	1	: '
PBT:	:'	:	٠	;	;	1	:"		٠	:
vPvB:									111	
N/A : ' · · · · · · :		11			0.	1	: '		1:	:
SECTION 3. C										
Substances		, e ¹							111	
CAS No. / Substance	Name:									

7790-29-6 Rubidium iodide

Identification number(s):

EC number: 232-198-1

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

No data available

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:

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:

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:

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:

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 face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: 7790-29-6 Rubidium iodide (100.0%) TLV (USA) Long-term value: 0.01* ppm *as inhalable fraction and vapor 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. 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

Safety glasses

Eye protection:

manufacturer.

Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Crystalline

Color: White

Odor: Odorless

Odor threshold: No data available.

pH: N/A

Melting point/Melting range: 647 °C (1197 °F)

Boiling point/Boiling range: 1300 °C (2372 °F)

Sublimation temperature / start: No data available

Flash point: N/A

Flammability (solid, gas)

Product is not flammable.

Ignition temperature: No data available

Decomposition temperature: No data available

Autoignition: No data available.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower: No data available

Upper: No data available

Vapor pressure: N/A

Density at 20 °C (68 °F): 3.55 g/cm

3

(29.625 lbs/gal)

Relative density

No data available.	; '		';	: '		1	; '		1	:
Vapor density										
N/A		i	1	:			:	;		
Evaporation rate										
N/A			:"	. :						
Solubility in / Miscibility	with W	/ater at 1	17 °C; (63	°F): 1	520 g/l	1:	;	٠٠,	1	; '
Partition coefficient (n-	octanol	/water):	No data a	ıvailab	le.			;	1	
Viscosity:	,	,		,	,		,			,
Dynamic: N/A						111			111	
Kinematic: N/A		·			,					
Other information	: '		·:	; '		1	;		1	: '
No data available	: '			; '			;	1		;
Reactivity No data available	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		``````````````````````````````````````						1 1.	
•										
Chemical stability	,	,		,	,		,			,
Stable under recomme	nded s	torade c	onditions			: "			111	
Thermal decomposition				od.						
Decomposition will not	1	''',	;	;				٠٠,	1	: '
Possibility of hazardou								1	1	; '
No dangerous reaction										
Conditions to avoid			: ' '			: ' '			: "	
No data available			'.		0.	4			4	
Incompatible materials	:									
No data available	: '		1	: '		1			1	;
Hazardous decomposit	tion pro	ducts:								
Hydrogen iodide (HI)			:"	. :		: ' '			111	
				, '		1,			4,	

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicologica	l effects	٠	;		1	;	:	1	:	;
Acute toxicity:										
No effects known.		;**			: ' '			: • •		
LD/LC50 values that are re	elevant for c	lassificat	ion:			, '			, '	
No data										
Skin irritation or corrosion:		٠	; '	:		;			:	:
May cause irritation										
Eye irritation or corrosion:		;**			: ' '			: ' '	. :	'
May cause irritation		· ;	; '		1	; '		1	; '	
Sensitization: No sensitizing effects know	vn.	1	; '	1	100	:"		٠	:'	:
Germ cell mutagenicity:										
No effects known.						. :			. :	
Carcinogenicity:		' :	; '	• • •	1	;		1	:'	٠٠,
No classification data on ca	arcinogenic	propertie	es of th	is materi	al is avai	lable fr	om the E	EPA, IAR	C, ,	:
NTP, OSHA or ACGIH.	,		,	,		,	,			,
Reproductive toxicity: No effects known.	:		. :	2	111	. :	2	:**	. :	
Specific target organ syste	m toxicity -	repeated	l expos	ure:	1	;		1	:	٠٠.
No effects known.	· ;		;		1	;				
Specific target organ syste	m toxicity -	single ex	posure) :						
No effects known.					111					
Aspiration hazard:		1	;		1			4	:	
No effects known.										
Subacute to chronic toxicit	y:		;			;		1	;'	:
The toxicity of rubidium con	mpounds is	generall	y due t	o the ani	on. Rubio	dium ha	as been	reported	to	
replace potassium in anima	als studies.	Indicatio	ns are	that over	rexposure	e could	lead to i	muscle a	nd	. '

red

blood cell accumulation with possible neuromuscular effects, hyperirritablity and muscle spasms. No cases of industrial injury have been reported.

Prolonged exposure to iodides may cause skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples, boils, redness, black and blue spots, hives and blisters. Iodides are readily diffused across the placenta. 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 available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Additional ecological information:

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

Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems.

Avoid transfer into the environment.

Results of PBT and vPvB assessment

PBT:

N/A

vPvB:

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Recommendation

Consult official regulations to ensure proper disposal.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Not a hazardous material for transportation.

UN-Number

DOT, IMDG, IATA

None

UN proper shipping name

DOT, IMDG, IATA

None

Transport hazard class(es)

DOT, ADR, IMDG, IATA

ClassNone

Packing group

DOT, IMDG, IATA

None

Environmental hazards:

N/A

Special precautions	s for user		1	; '		1	:		
N/A									
Transport in bulk a	ccording to	Annex I	I of MAR	POL73	/78 and	the IBC (Code	:	
N/A									
Transport/Additiona		on:	: "			111			: ' '
Not dangerous acc	ording to the	ne above	specifica	ations.		1	; '		·:
DOT				, '	:		, '	:	
Marine Pollutant (D		,		,			,	,	
No.			111	. :		111			: ' '
	: :		1	; '		1	: '		1
SECTION 15	. REG	ULAT	ORY I	NFC	RMA	TION	, '	:	
Safety, health and	environme	ntal regu	ılations/le	gislatio	n specif	ic for the	substa	nce or m	nixture
GHS label element	S		111			111			: * *
N/A									
Hazard pictograms	: :	'',							1
N/A		1		; '	:	1	; '	:	٠
Signal word									
N/A			: ' '			111			: ' '
Hazard statements	: :		1			':			
N/A									
National regulation	S		100	;		1	;		
All components of t	this produc	t are liste	ed in the	U.S. Eı	nvironme				Toxic
Substances Contro	I Act Chen	nical sub	stance In	ventor	y -			'	
SARA Section 313	(specific to	oxic cher	nical listir	ngs)		1	; '		1:
Substance is not lis		1	1	, '	:	1		:	٠
California Propositi				,			,		
Prop 65 - Chemical	ļs knowņ to	cause o	cancer			;**			: ' '
Substance is not lis	sted.	,							
Prop 65 - Developn	nental toxi	city	·:	; '	***	';	; '		· ;

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.