

## SAFETY DATA SHEET

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### **SECTION 1. IDENTIFICATION**

Product Name: Potassium Iodide

CAS #: 7681-11-0

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)

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

Hazards not otherwise classified

No information known.

Label elements

GHS label elements

Not applicable

Hazard pictograms

Not applicable

Signal word

Hazard statements		;			;			:
пот аррисаріе								
WHMIS classification	: • •				, '		: "	,,
Not controlled								
Classification system								
HMIS ratings (scale 0-4)		;			;			:
(Hazardous Materials Identification								
Health (acute effects) = 1	:**	, , '		;**				
Flammability = 0Physical Hazard =	: 1							
Other hazards	: .							
Results of PBT and vPvB assessm	nent	;			;			:
PBT:								
Not applicable.	:**						: ' '	
vPvB:								
Not applicable.				i .				
		:	1		:	,		-
SECTION 3. COMPOS	SITION/II	NFO	RMAT	ION (	N IN	NGRE	DIEN <sup>.</sup>	TS
Chemical characterization: Substa	nces							
CAS# Description:								
7681-11-0 Potassium iodide		!	. * *			.''		
Identification number(s):								
EC number: 231-659-4	:"	. ' '		: ' '			:"	. '

# **SECTION 4. FIRST AID MEASURES**

Description of first aid measures

After inhalation

Not applicable

Supply fresh air. If required, provide artificial respiration. Keep patient warm.

Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. 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 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) Potassium oxide Advice for firefighters Protective equipment: Wear self-contained respirator.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Wear fully protective impervious suit.

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Environmental precautions:

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

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

Handle under dry protective gas.

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

Storage ...

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store in the dark.

Store away from water/moisture.

Store away from oxidizing agents. Further information about storage conditions: Store under dry inert gas. This product is hygroscopic. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Protect from exposure to light. Specific end use(s) No further relevant information 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:7681-11-0 Potassium 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

General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

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. Recommended filter device for short term use: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Material of gloves Nitrile rubber, NBR Penetration time of glove material (in minutes)

Not determined

Eye protection:

Safety glasses

Body protection:

Protective work clothing.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

General Information

Appearance:

Form: Crystalline powder

Color: White

Odor: Odorless

Odor threshold: Not determined.

pH-value: Not applicable.

Change in condition

Melting point/Melting range: 681 °C (1258 °F)

Boiling point/Boiling range: 1330 °C (2426 °F)

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 at 745 °C (1373 °F): 1.33 hPa (1 mm Hg)

Density at 20 °C (68 °F): 3.12 g/cm³ (26.036 lbs/gal)

Relative density

Not determined.

Vapor density

Not applicable.

Evaporation rate

Not applicable.

Solubility in / Miscibility with Water: Soluble

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

May cause irritation

SECTION 10. STABILITY	ANL	KE	ACIIV	/11 Y				
Reactivity		;	. * *		:			:
No information known.								
Chemical stability	: ' '	. '		111	. '		111	'
Stable under recommended storage cor	ndiţions	<b>3.</b> ' '						
Thermal decomposition / conditions to b	e avoid	ded:						
Decomposition will not occur if used and	d stored	d accor	ding to s	pecificati	ons.	. ' '		
Possibility of hazardous reactions								
Reacts with strong oxidizing agents	,	, '		,	. '		,	. '
Conditions to avoid								
No further relevant information available	e. , ,				:			
Incompatible materials:	,	,	,	,	,	,		,
Water/moisture	: ' '	,,,		111				
Ovidizing agents								
Light							: .	
Hazardous decomposition products:		;	. * *		;		: .	:
Hydrogen iodide (HI)								
Potassium oxide	: ' '	. '		!''	. '	. :	: ' '	
			111					
SECTION 11. TOXICOLO	GICA	AL; IN	IFORI	MATIC	NC	.**		;
Information on toxicological effects								
Acute toxicity:	: ' '			: "			: ' '	'
The Registry of Toxic Effects of Chemic	al Subs	stances	(RTECS	S) contai	ns acut	e toxicity	data for	this
substance.								
LD/LC50 values that are relevant for cla	ssificat	ion:	. ' '		;	. ' '		
No data		,			,			
Skin irritation or corrosion:	; ' '	, '		;.,	, '		;.,	

Eye irritation or corrosion	n: ¦									
May cause irritationSens	sitizatio	on:								
No sensitizing effects kn	own.	. * *		:				. * *		
Germ cell mutagenicity:										
The Registry of Toxic Ef	fects c	of Chemica	al Subs		(RTECS)			tion data fo	or this	'
substance.										
Carcinogenicity:	,									
No classification data on	: ı carciı							m the EP/		,
NTP, OSHA or ACGIH.										
Reproductive toxicity:	, '		1	. '		,	, '		,	. '
The Registry of Toxic Ef	fects c	of Chemica	al Subs	tances	(RTECS)	contain	s repro	ductive da	ta for th	is '
substance.	;			;			;			
Specific target organ sys						•	,	,		'
No effects known.	, '					: ' '	. '		: ' '	, ,
Specific target organ sys							,			
No effects known.										
Aspiration hazard:	;			:						:
No effects known.										
Subacute to chronic toxi	city:					: ' '			: ' '	
The Registry of Toxic Ef for										
this substance.	:			;			;			:
Additional toxicological i	nforma	ation:								
To the best of our knowl	edge t	the acute a	and chr	onic to	cicity of thi	s subst	ance is	not fully k	nöwn.	
	,			,			,			,
SECTION 12. E	COL	-OGIC	AL II	NF <sub>0</sub> F	RMATI	ON	:			;

Toxicity

Aquatic toxicity:

No further relevant information available.

Persistence and degradability									
No further relevant information	availahla								
Bioaccumulative potential	.**		:	.**	:	:	.**		:
No further relevant information									
Mobility in soil		:	. ' '		:	.''	. :	: ' '	. '
No further relevant information	available.								
Additional ecological information	on:		:	.00		:	.**	: '	:
Do not allow material to be rele	ased to the	e enviro	onment	without p		. '		nits.	
Do not allow undiluted product					water,		course or		
system.		: .							
Avoid transfer into the environr	nent.		;						
Results of PBT and vPvB asse									
PBT:		: ' '	, , ,		; ' '	, '		: ' '	
Not applicable. vPvB:									
Not applicable.	, **	: '	;	. * *			.**		:
Other adverse effects									
No further relevant information	available.		. * *			. '		!"	, '
									. ,
SECTION 13. DISPO	OSAL (	CONS	SIDE	RATIO	NS	:	.**	: .	:
Waste treatment methodsReco	mmendati	on							

Consult state, local or national regulations to ensure proper disposal.

Uncleaned packagings:

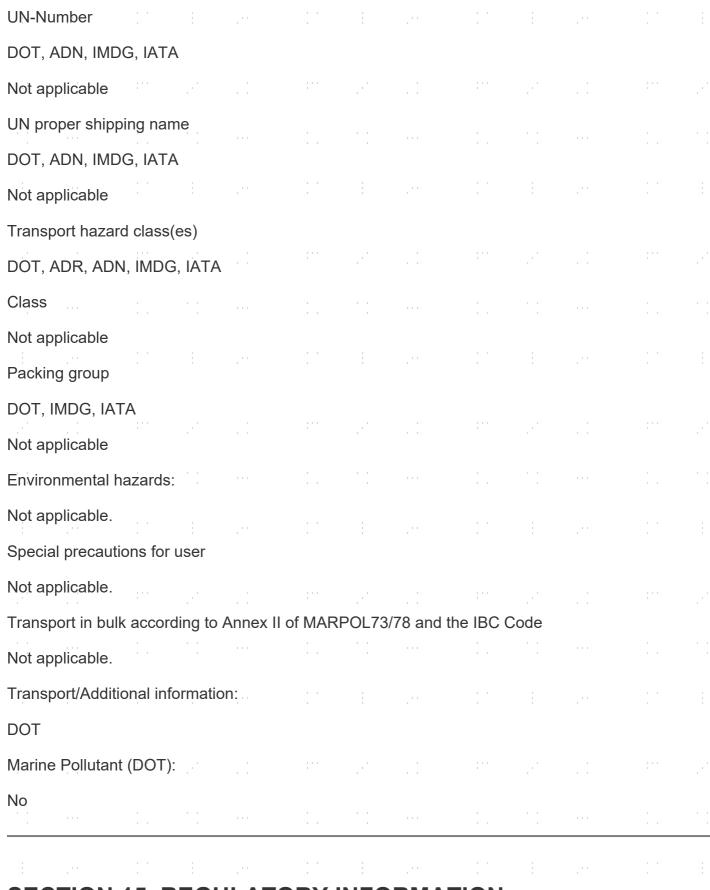
Recommendation:

Disposal must be made according to official regulations.

Recommended cleansing agent:

Water, if necessary with cleansing agents.

## **SECTION 14. TRANSPORT INFORMATION**



## **SECTION 15. REGULATORY INFORMATION**

GHS label elements

Safety, health and environmental regulations/legislation specific for the substance or mixture

Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable 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 Domestic Substances List (DSL). 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.