

#### SAFETY DATA SHEET

					111				Date	Accesse	ed: 25/08/2023		
÷.,	4,	14. 14.	÷.,		1.	÷.,		1. 1.	Date Revised: 19/01/20				
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	CTION												
	uct Name:												
CAS	#: 7440-09	-7						14	1.	1	14	1	
Relev	ant identi	fied us	ses of t	he subs	tance: S	Scienti	fic resea	rch and	l develo	opment			

#### 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 GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Substances and mixtures, which in contact with water, emit flammable gases(Category 1), H260 Skin corrosion(Category 1A), H314 Serious eye damage(Category 1), H318 Carcinogenicity(Category 1A), H350 GHS Label elements, including precautionary statements Pictogram GHS02 GHS08 GHS05 Signal word

						1				1 1 1		
Danger	÷.,		÷.	· .		1			÷.,	÷.,		
Hazard stateme	• • •											
H260	· · .	'	1 I	· · .	· · · <sup>1</sup>		11.	· · '		· · · .	· · · '	
In contact with	water re	eleases	flammab	le gases	s which		-					
H314Causes se	evere sł	kin burn	s and eye	e dama	ge.				t.			
H318	1. 1.	÷.,		1. 1.			1. 1.		÷.,	14		
Causes serious H350	eye da	image.		11. 1		1 I 1		'		۰.	*	
May cause can	cer.								-			
Precautionary s		nt(s)										
P201	14	1	1,	1.			1.		1	14		
Obtain special i	nstructi	ons bef	ore use.	· · .	· · · <sup>1</sup>	н н н	··.,	'		· · .		
P202												
Do not handle ι	until all s	safety p	recautior	ns have	been re	ead and	understo	ood.	:			
P223												
P223 Keep away fron	n any po	ossible	contact w	vith wate	er, beca	ause of v	iolent re	action a	and poss	ible flash	n fire.	
Keep away fron	· · .	'		Ч.	'							
Keep away fron P231 + P232	nert gas	. Protec	t from m	oisture.	'		··.		• •	۰۰.	*	
Keep away fron P231 + P232 Handle under in P260	nert gas	. Protec	et from m	oisture.			··.					
Keep away fron P231 + P232 Handle under ir	nert gas	. Protec	t from mo	oisture.								
Keep away from P231 + P232 Handle under in P260 Do not breathe	nert gas dust or	. Protec mist.	et from mo	oisture.								
Keep away from P231 + P232 Handle under in P260 Do not breathe P264	nert gas dust or	. Protec mist.	et from mo	oisture.								
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thore	dust or	. Protec mist. after har	ot from mo	oisture.								
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280	dust or bughly a	. Protec mist. after har	ndling.	oisture.	e protec	ction/ fac	e protec	tion.				
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280 Wear protective P281 Use personal p	dust or bughly a gloves	. Protec mist. after han / protec	ndling.	oisture. hing/ eye	e protec	ction/ fac	e protec	tion.				
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280 Wear protective P281 Use personal p	dust or bughly a gloves	. Protec mist. after har	ndling.	oisture. hing/ eye	e protec	ction/ fac	e protec	tion.				
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280 Wear protective P281 Use personal p	oughly a oughly a oughly a rotective P331	. Protec mist. after har / protec e equipr	ot from mo ndling. Stive cloth ment as r	oisture. hing/ eye	e protec I.	ction/ fac	e protec	tion.				
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280 Wear protective P281 Use personal pu P301 + P330 +	dust or bughly a gloves rotective P331 D: Rins	. Protec mist. after har / protec e equipr	ndling.	oisture. hing/ eye	e protec I.	ction/ fac	e protec	tion.				
Keep away from P231 + P232 Handle under in P260 Do not breathe P264 Wash skin thoro P280 Wear protective P281 Use personal pu P301 + P330 + IF SWALLOWE	oughly a oughly a oughly a oughly a oughly a coughly a coughly a coughly a oughly a	. Protec mist. after han / protec e equipr	ot from mendling. Stive cloth	oisture. hing/ eye	e protec I. xe vomi	ction/ fac ting.	e protec	tion.				

water/

shower.

P304 + P340 + P310

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

P335 + P334

Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P363

Wash contaminated clothing before reuse.

P370 + P378

P402 + P404

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Ctara in a dry place. Ctara in a classed cont

Store in a dry place. Store in a closed container.

P405

Store locked up. P501

Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

Reacts violently with water.

May form explosive peroxides.

#### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Formula: K

Molecular weight: 39.10 g/mol

				1 1 1					1			;
Hazardous comp	ponents	5	1	÷.,	1	1	÷.,					:
Component Potassium	··	<sup>1</sup>	· ·			1 - 1 - 1				Ч.		
CAS-No. 7440-09-7	;		;	1 - 1 - 1 1			1 1 1 1		e <sup>r</sup>	111		;
EC-No.	1. 1.	÷.,	÷.,		1				÷.,			:
231-119-8 Index-No.	··.		· · · ·	··.	*	· · ·	··.					
019-001-00-2 Classification	:		e <sup>r</sup>			a'	:··		a' i		, et	;
Water-react.1; S	kin Cor	r.1A; E	Eye Dam	.1; H260	), H314		1. 1.		÷.,	1. 1.		
Concentration	· · .			· · .	1		···,			···,	'	
>=90-<=100%												
Paraffin oils			:		. '				i.			:
CAS-No. 8012-95-1	14. 1	1	١.		÷.,			÷.,	4			:
EC-No.	· · .			· · .	1		· · .			· · .	'	
232-384-2												
Classification			t.			ť				111		1
Carc.1A; H350 Concentration	5. 1	1	1	1	4		14	4,	4	5. 197	4	:
>=1-<5%	··.	<sup>1</sup>	· · ·	Ч.,	'	1 - 1 1	9. 19		1 - 1 1	· · · ·	'	

## SECTION 4. FIRST AID MEASURES

Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or

in section 11

Indication of any immediate medical attention and special treatment needed

No data available

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media			1					:	
Suitable extinguishing media			1 - 1 1	· · · ,	'		· · .		
Dry powder									
Special hazards arising from the sub	ostance or	mixture				: <sup>1</sup>		1	
Carbon oxides, Potassium oxides	· .	1	:	· · ·	1		÷.,	:	
Advice for firefighters									
Wear self-contained breathing appar	ratus for fir	efightin	g if nece	essary.	· · · '		11		
Further information									
No data available								. 1	

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

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing Vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal. Reference to other sections For disposal see section 13.

#### **SECTION 7. HANDLING AND STORAGE**

Precautions for safe handling

Avoid formation of dust and aerosols.

Further processing of solid materials may result in the formation of combustible dusts. The potential for

combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.Keep away from sources of

ignition -No smoking.

For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Never allow product to get in contact with water during storage.

Handle and store under inert gas.

Storage class (TRGS 510): Hazardous materials, which set free flammable gases upon contact with water

Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated

# 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.

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

Information on basic physical and chemical properties

Appearance

Form: Solid

		.'			. '			. '				
Colour: grey	· .		1	Т.	1		1. 1.					
Odor					1							
No data available			1	· · ·		1	· · .			11.		
Odor Threshold												
No data available		.'			, '			, '	1			
pH		1		С.			с. С.	1		14	1.	1
No data available			1 1			1 1						
Melting point/freez			,	ł		,	,					
Melting point/range	e: 64 °	C (147	°F)									
Initial boiling point	and bo	oiling ra	inge									
774 °C (1,425 °F)	at 1,01	l3 hPa	(760 mml	-lg)	1	1	с. С.			14		1
Flash point	· · .	'	· · ·	· · .			· · .					
No data available												
Evaporation rate			:			:				: • •		
No data available	· .	1	:		2				:	·	÷.,	:
Flammability (solid	l, gas)											
No data available	11.	'	1 I	· · .	' 	1 I	· · .	<sup>1</sup>		11	'	
Upper/lower flamm	,											
No data available			1							: • •		
Vapor pressure	·		1	· .	1	÷.,	1.		÷.,			1
0.12 hPa (0.09 mn												
Vapor density								1.1		11.		
No data available						1						
Relative density		.'			.'		,	, '	a' -			
0.860 g/cm3		1		С.			с. С.	1			1.	1
Water solubility			1 1			1 1						
No data available									*			
Partition coefficien	t: n-oc	tanol/w	ater									
No data available												
Auto-ignition temp	erature	eNo dat	ta availab	le			с. С.	1				1

Decomposition temperat	ure	1	·	1	1		÷.,	÷.	1. 1.		1
No data available											
Viscosity				· · · <sup>1</sup>		11	<sup>1</sup>		11		
No data available Explosive properties		i'	111		:			:			
No data available	1	1	÷.,	1	÷.,	1. 1.		÷.,	1. 1.		1.
Oxidizing properties No data available	'		··.		· · ·	···.	'	· · ·	··.	'	
Other safety information No data available		a' -	111		:	;		:	: • •		:
	1			1	1	1.				1	1

# SECTION 10. STABILITY AND REACTIVITY

Reactivity		:			1			:		
No data available Chemical stability	4,	1 1 1	14. 1		1	14. 194	4,	÷.	5. 19	4
Stable under recommer	nded sto	orage con	ditions.	'	· ·	· · .	'	н н н	· · .	1.1
Possibility of hazardous										
Reacts violently with wa	iter.		111						111	
Conditions to avoid		1	·	1	1	·		÷.	۰.	:
Exposure to moisture										
Incompatible materials	1.1	1 I			1 1		1.1 <sup>1</sup>		11.	1.1
Oxidizing agents, Strong	g oxidiz	ing agent	s, Carb	on oxid	es, React	s violer	ntly with	water., R	eacts v	vith
water to generate Hydro	ogen ga	IS.						: <sup>1</sup>		
Hazardous decompositi	on: proc	lucts	1. 1.	1	1				1. 1.	÷.,
Other decomposition pr	oducts-	No data a								
In the event of fire: see	section	5			i.	· · ·			· · .	
an an			1 1 1 1			1.1.1				1.1

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

			1 1 1			1 1 1					:
Information on toxicolog	gical effe	ects	1.	1			÷.	1	1. 1.		:
Acute toxicity											
No data available			· · .	'		· · · .			· · .		
Inhalation: No data avai	ilable										
Dermal: No data availal	ole	:			i'						:
No data available			1.			14. 1	1	1.	14		Ξ.
Skin corrosion/irritation				'							
No data available			,			,					
Serious eye damage/ey	e irritatio	on		. '	. 1		. '				
No data available	,			,	,			,			
Respiratory or skin sens	sitisatior	1	с. С.			14	1		14	1	÷.,
No data available			· · · .	· · · <sup>1</sup>	1 I	· · .			· · .		
Germ cell mutagenicity											
No data available		:				: • •		1	: • •		: 1
Carcinogenicity	1	1		÷.	÷.						
IARC:				· .		· .					
1-Group 1: Carcinogeni	c tơ hum	nans(Para	affin oils	s) <sup>, , , ,</sup>	1 I	· · .			· · .	'	
NTP:											
Known to be human car	rcinogen					: * *			: ' '		: '
The reference note has NTP.(Paraffin oils)	been ac	ded by T	D base	d on th	e backgro	ound info	ormatio	n of the	1.		÷.
OSHA:	'			<sup>1</sup>	· · ·	· · .			· · .		
No component of this p	roduct p	resent at	levels g	greater	than or ec	ual to (	).1% is	identified	as a		
carcinogen or potential	carcinog	gen by OS	SHA.					: <sup>1</sup>	:**		: 1
Reproductive toxicity	:	:	· .		1	· .	1	;		1	:
No data available											
No data available			· · .	'	1 I	· · .			· · .		
Specific target organ to											
No data available			1.1.1			: * *		:	111		: 1
Specific target organ to	xicity -re	peated ex	kposure	9			1				÷.,

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes,

and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of

breath, Headache, Nausea

#### **SECTION 12. ECOLOGICAL INFORMATION**

Toxicity		1	1.1.1						1.1.1	
No data available			1. 1.	1	1		1			1
Persistence and degrad	ability	н н		'	1 1			1 I		
No data available					,					
Bioaccumulative potenti	al								: · ·	
No data available										
Mobility in soil	1.		1.			Т.,	1.	1		
No data available			· · .	'	1 I	· · .			· · .	
Results of PBT and vPv										
PBT/vPvB assessment	not ava	ilable as c	hemica	l safety	assessm	ent not	require	ed/not con	ducted	
Other adverse effects										
No data available			<b>'</b> .			<b>`</b> .		<b>'</b> .	1.	

#### SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable.

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SEC	TION	14.	TRA	NSPC	RT	INF	ORN	ΙΑΤΙ	ON

	· · · .								
DOT (US)									
UN number: 2257									:
Class: 4.3 Packing group: I		1	÷.	14. 14.	÷.,	÷.	1. 1.	1	;
Proper shipping name: Potassium	· · ,	<sup>1</sup>			<sup>1</sup>				
Reportable Quantity (RQ):									
Poison Inhalation Hazard: No	; • •		:			: <sup>1</sup>	: * *		;
IMDG UN number: 2257		1	1,	14. 14.	1	1. 1	14. 14.	1,	:
Class: 4.3		'			'		···.	<sup>1</sup>	
Packing group: I EMS-No: F-G, S-N	111		:	:		:			:
Proper shipping name: POTASSIUM	14	1	÷.,		1		1. 1.		:
IATA UN number: 2257		'	• •	۰۰,			Υ.	*	ı.
Class: 4.3 Packing group: I		, <sup>1</sup>	:	:	<sup>1</sup>	:			;
Proper shipping name: Potassium			1.	14			14. 14.	1	:

#### **SECTION 15. REGULATORY INFORMATION**

SARA 302 Com	ponent	S	: <sup>1</sup>			ef l				;			
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.													
SARA 313 Com	oonent	S			'								
This material do	es not o	contain											
threshold (De Mi	inimis)	reportir	ng levels e	stablisł	ned by	SARA Title	e III, Se	ection 3	13.	: • •			
SARA 311/312 H	lazards	5											
Reactivity Hazar	d, Acut	te Heal	h Hazard,	Chron	ic Healt	h Hazard	11		1	11			
Massachusetts F	Right To	o Know	Compone	ents	· · · <sup>1</sup>		· · .			· · .			
Massachusetts Right To Know Components Potassium													
CAS-No.							: • •		:	: • •			
7440-09-7	· .	:	÷.	· .	:	:	۰.		;	۰.	1		
Revision Date													
1993-04-24	· · .	'		· · · .	'		· · .			11	<sup>1</sup>		
Paraffin oils													
8012-95-1									1				
2007-03-01				·		1	1.			1. 1.	1		
Pennsylvania Ri													
Potassium	· · ,					1	· · .		1	· · .			
CAS-No.													
7440-09-7		. '		ı	. '	1		. '					
Revision Date		1				1	14		1.	14	1		
1993-04-24					'								
Paraffin oils													
8012-95-1									:				
2007-03-01													
New Jersey Righ	nt To K	now Co	omponents	3			11	1		14	÷.,		

	,	. '	1		. '	1		. '			. '	
Potassium		1	1	÷.,	1		÷.,		÷.	÷.,		1
CAS-No. 7440-09-7Revis	sion Dat	te		· · ·	<sup>1</sup>	• •	· · .			•••	'	
1993-04-24												
Paraffin oils												
8012-95-1	1. 1.		1	÷.,	1	1	1. 1.		1	1. 1.		Ξ.
2007-03-01 California Prop.				··		•	· · .		· · ·	· · .	'	
WARNING! Thi		•		nemical k	nown t	o the Sta	te of Ca	lifornia	to cause	cancer		
	5 produ							inorna			19	

## **SECTION 16. OTHER INFORMATION**

Paraffin oils

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.

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· · ·			14. 14.	1	1	÷.,	÷.,			1	1.	· .	1	
•••			· · · ·	'		··.		1 I 1	· · .	*	• •	· · .	'	
		i.			:	: · ·		:	111		:			
				1.	1	1. 1.	1			1	1.	÷.,	1	
	<sup>1</sup>		· · .	'		۰.		1 I	· · · ·			Υ.		
		i.			1	1.1		:	111		:			
· .	1				1	14. 1	1	:.			Ξ.	۰.		
	1			1			I			1			1	