

SAFETY DATA SHEET

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1									Dat	e Revise	d: 10/01	/2023
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	CTION											
	uct Name					· · ,	1 - 1 1		· · .		: * *	· · .
	#: 7646-9					-						:
Relev	vant ident	ified us	ses of t	the subst	tance: S	cienti	fic resea	rch and	develo	opment		·
Supp	lier detai	s:										
Stanf	ord Advan	ced Ma	terials									
E-ma	il: sales@	samateı	rials.co	om								
Tel: (949) 407-8	3904	-					1				
Addre	ess: 23661			Lake Fore								
_	CTION sification											
This o CFR	chemical is	s consid	lered h	azardous	by the 2	2012 C	SHA Ha	zard Cor	nmunic	ation Star	ndard (2	9
1910	.1200)											
Skin	Corrosion/	irritatior	n Categ	gory 1 B		· · .		1.1.1	· · .	1	111	· · .
Serio	us Eye Da	image/E	Eye¦Irrit	tation Cat	egory 1							-
Spec	ific target o	organ to	oxicity (single ex	posure) (Catego	ory 3					
Targe	et Organs	- Respir	atory s	system.	1.		1	1.			1.	
11.	I Elements	;										
	al Word	1.1				11	н н н		· · · .	н н Н		۰.
0	al Word: Jer											

		1	1					
Hazard Statements		1						
Causes severe skin burns and ey	ye damage							
May cause respiratory irritation		1		1			1	·
Precautionary Statements								
Prevention						1		··.
Do not breathe dust/fume/gas/mi after handling	st/vapors/spray	yWash 1	ace, hanc	ls and a	ný exp	osed skin	thoroug	Jhly
Wear protective gloves/protective	e clothing/eye p	protectio	on/face pro	otection	·			1
Use only outdoors or in a well-ve								
Response	·	11. 1						· · .
Immediately call a POISON CEN	TER or doctor/	physicia	an					-
Inhalation				1			1	1
IF INHALED: Remove victim to fr			1					
Skin	. <u>.</u>							
IF ON SKIN (or hair): Take off im								
Wash contaminated clothing before	ore reuse							
Eyes	н	1			1			·
IF IN EYES: Rinse cautiously wit	h water for sev	eral mir	nutes. Rer	nove co	ntact le	enses, if pi	resent a	and
easy to do. Continue rinsing		· · .			· · .		:**	··.
Ingestion								
IF SWALLOWED: Rinse mouth.	DO NOT induc	e vomiti	ng					
Storage	:	1			1 1		÷.,	1
Store locked up								
Store in a well-ventilated place.	Keep container	tightly o	losed	; · · ·	· · .		:**	· · .
Disposal					:			
Dispose of contents/container to	an approved w	aste dis	sposal pla	nt				
Hazards not otherwise classified	(HNOC)	'	`: :		1 	1		1
None identified								
Skin Corrosion/irritation Category	/ 1 B		н н н		11.			···.
Serious Eye Damage/Eye Irritatio	on Category 1	1						-

Specific target organ toxicity (single exposure) Category 3

Target Organs - Respiratory system.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component: Potassium hydrogen sulfate

CAS-No: 7646-93-7 Weight %: >95

SECTION 4. FIRST AID MEASURES

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention isrequired.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required. Keep eye wide open while rinsing.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a physician immediately.

Inhalation Move to fresh air. If not breathing, give artificial respiration. Call a physician or Poison

Control Center immediately. Do not use mouth-to-mouth method if victim ingested or

inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with

a one-way valve or other proper respiratory medical device.

Ingestion Immediate medical attention is required. Do not induce vomiting. Drink plenty of water.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects

Causes burns by all exposure routes. Product is a corrosive material. Use of gastric

lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger ofperforation

Notes to Physician: Treat symptomatically

SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media CO	D 2, dry cher	nical, dry	sand, alco	hol-resi	stant fo	oam.	1	1	
Unsuitable Extinguishing Media	No informati	on availa	ole						
Flash Point No information avail	able		н н Н	1.1.1	11. 1	н н н	111	· · .	
Method - No information availab	le				1				
Autoignition Temperature Explosion Limits	h. 4.	5		1	<u>'</u>		4	5	
Upper No data available	1 - 1					1 - 1			
Lower No data available								,	
Sensitivity to Mechanical Impact	No informat	tion availa	ble	н 1 1	1				
Sensitivity to Static Discharge N	o informatio	n availabl	9	1	1			1	
Specific Hazards Arising from th	e Chemical								
The product causes burns of eye	es, skin and	mucous r	nembrane	S. ,	· · .			· · .	
Hazardous Combustion Product									
Sulfur oxides Potassium oxides					1				
Protective Equipment and Preca	autions for Fi	refighters			1			1	
As in any fire, wear self-containe	ed breathing	apparatu	s pressure	-deman	d, MSF	IA/NIOSH	(appro	ved	
		· · · .		: • •	· · .	н н н		· · .	
equivalent) and full protective ge									
and		1			1				
vapors.	'i .	1		1	1		4	1	
NFPA:									
Health 3	1 I I I I I I I I I I I I I I I I I I I	· · .	1 I	111	· · · .	н н н	: • •	· · .	
Flammability 0									
Instability 1					4 8				
Physical hazards N/A	1) (J.	'	1	÷.,	5			1	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions Use personal protective equipment. Evacuate personnel to safe areas. Avoid contact with skin, eyes and clothing.

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground water system.

Methods for Containment and Clean Up

Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.

SECTION 7. HANDLING AND STORAGE

Handling

Wear personal protective equipment. Do not get in eyes, on skin, or on clothing. Use only under a

chemical fume hood. Do not breathe dust. Do not ingest.

Storage Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Corrosives area.

Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any hazardous materials with occupational

exposure

limitsestablished by the region specific regulatory bodies.

Health 3

Flammability 0

Instability 1

Physical hazards N/A

Engineering Measures

Use only under a chemical fume hood. Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described

by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin and body protection Long sleeved clothing.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure

limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Solid

Appearance White		r.		· · .	1 I	; * *		1 I	: • •	· · .	
Odor Odorless											
Odor Threshold No info	ormation a	vailable									
pH 1		:		·		1	'			1	
Melting Point/Range 2	14 °C / 417	7.2 °F									
Boiling Point/Range No	o informatio	on availa	ble	· · · ·			· · .		: · · ·	11	
Flash Point No informa	ntion availa	ble	, , ,								
Evaporation Rate Not a Flammability (solid,gas	1. A A A A A A A A A A A A A A A A A A A	nation av	vailable	1	1	1	1	3		5	•
Flammability or explos Upper No data availab			;	···,	 -	:	···.	1 1 1	:**	··.	
Lower No data availab	le										
Vapor Pressure No info	ormation a	vailable	1	1	1	÷.,	1	1	÷.	·	
Vapor Density Not app	licable										
Specific Gravity 2.24			1 I I I	· · .			· · .			· · .	
Solubility No information	on available	Э									
Partition coefficient; n-	octanol/wa	ter No da	ata ava	ilable			1				

					1		. :		
lo inform	ation av	ailable							
		1			1		÷.,	1	
								· · · .	
		lo information av	lo information available						

SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available				
Stability Hygroscopic.				
Conditions to AvoidAvoid dust formation. Incompatible products. Exces	s heat	. Exposu	e to mois	ture.
Incompatible Materials	1	1		1
Strong oxidizing agents, Strong bases, Alcohols				
Hazardous Decomposition Products Sulfur oxides, Potassium oxides	· · .			· · .
Hazardous Polymerization Hazardous polymerization does not occur.				
Hazardous Reactions None under normal processing.	:			

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity										
Product Informat	ion No a	cute to	xicity infor	mation	is avai	lable for th	nis proc	luct		
Component Infor	mation	'	`:	1	1 			'		1.
Toxicologically S										
Products		· · .		1 1 1	· · .				1	
No information a	vailable							-		
Delayed and imm		·			c effect	s from sho	ort and	long-tei	rm exposu	lre
Initation Causes		y all ex	posure rou	lies						
Sensitization No	informat	ion ava	ailable	: • •	· · .					: • •
Carcinogenicity 7	The table	e below	/ indicates	whethe	er each	agency h	as liste	d any ir	ngredient	as a
carcinogen.										

Mutagenic Effects No information available			. :			. :		
Reproductive Effects No information available.								
Developmental Effects No information available.				1 			1 	
Teratogenicity No information available.								
STOT - single exposure Respiratory system				· · .			· · ·	
STOT - repeated exposure None known								
Aspiration hazard No information available	·			·			·	
Symptoms / effects,both acute and delayed								
Product is a corrosive material. Use of gastric lav	age or	emesis is	contrai	indicate	ed.			
Possible perforation of stomach or esophagus sh	nould be	e investiga	ated: Ing	gestion	causes so	evere		,
swelling, severe damage to the delicate tissue ar	nd dang	ger of perf	oration					
Endocrine Disruptor Information No information a	availabl	e		1	`:		1	
Other Adverse Effects The toxicological propertie	es have	not been	fully in	vestiga	ted.			

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity
Do not empty into drains.

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is

classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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SECTION 14. T	RAN	NSPO	RT IN	FOR	MATI	ON	1			1	
DOT	·	1 1	1	1			1	1		1	
UN-No UN2509											
Proper Shipping Name	POTA	SSIUM F	IYDROC	SEN SU	JLFATE		с.,	н н Н		11. 1	
Hazard Class 8											
Packing Group II											
TDG			:	<u>'</u>			<u>'</u>			<u>'</u>	
UN-No UN2509											
Proper Shipping Name	ΡΟΤΑ	SSIUM F	IYDROC	SEN SU	JLFATE		· · · .		111	· · .	
Hazard Class 8											
Packing Group II IATA	·		1	·	1 1 1	;,	·		Ξ.	·	1
UN-No UN2509											
Proper Shipping Name	ΡΟΤΑ	SSIUM F	IYDROG	GEN SU	JLPHATE	=	11.			11	
Hazard Class 8										1	
Packing Group II IMDG/IMO	1	`:	1	1 1		÷.,	1 1		÷.	1 1	1
UN-No UN2509											
Proper Shipping Name	ΡΟΤΑ	SSIUM F	IYDROG	SEN SU	JLPHATE	Ξ					
Hazard Class 8											
Packing Group II	5	1	Ξ.	1 	`: `:	1	1	`: `:	1	1	1
										· · .	
SECTION 15. F											
U.S. Federal Regulation	ns										
TSCA 12(b) Not applica	able		1	1		÷.,	1			1	1

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

	1	1	· · .			· · .	1		· · ·	
Clean Air Act Not applicabl	е									
OSHA Occupational Safety	/ and Health	Adminis	stration							
Not applicable		÷.,	1	1		1		1	1	
CERCLA Not applicable										
California Proposition 65 T	his product o	does not	contai	n any Pro	position	65 che	emicals	1.1.1	· · .	
U.S. Department of Transp	ortation				, , ,					
Reportable Quantity (RQ):	N ,	:	·	1		·	· .	:	·	
DOT Marine Pollutant N		,		1	,		'	,		
DOT Severe Marine Polluta	ant N	111								
U.S. Department of Homel	and Security	,								
This product does not cont	ain any DHS	chemic	als.							
Other International Regula	tions	÷.,	·		1	1			1	
Mexico - Grade No informa	ition availabl	е								

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.