

# SAFETY DATA SHEET

· · ·			н 1 - 1						Date	Accesse	ed: 25/08	8/2023
	'					1			Dat	e Revise	ed: 03/11	/202
	14			14				1 - 1 1			1 - 1 1	
SE	CTION	1. ID	ENT		TION							
	uct Name:					, , ,						
	#: 10377-4								-			
				ha au hat								
	vant identi		ies of ti	ne subst	ance: S	cienti	ric resea	rch and	aeveid	opment		. * *
• • •	olier details		terials									
E-ma	ord Advand il: sales@s	samater	rials.cor	n								
	949) 407-8											
Addre	ess: 23661	Birtche	er Dr., L	ake Fore	st, CA 9	2630	J.S.A.					
	1.1						11		1.11	11.		111
Class GHS(	CTION sification of 07 e Tox. 4 H3	the sul	ostánce	or mixtu	re in ac	cordan	ce with 2	9 CFR 1	1910 (O		S)	
Eye I	rrit. 2A H31	19 Caus	seș seri	ous eye i	irritation	- ,	. 1					
Haza	rds not oth	erwise	classifie	ed No dat	ta availa					1		
GHS	label elem	ents, in	cluding	precautio	onary st	ateme	nts			<sup>1</sup>		
Haza	rd pictogra	ms		1.			· .			·		
Haza GHS(		ms	, • •	14. 1			1 1 1			14. 1		
GHS												
GHS( Signa	07	rning								et.		

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash thoroughly after handling.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contactlenses, if present and easy to do. Continue rinsing.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

WHMIS classification

D2B - Toxic material causing other toxic effects

Classification system

HMIS ratings (scale 0-4)

(Hazardous Materials Identification System)

HEALTH

FIRE

REACTIVITY

2

0

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Health (acute effects) = 2

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Flammability = 0

Other hazards

Results of PBT and vPvB assessment

PBT: N/A

vPvB: N/A

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances		н н н		14. 1			1. 1.			
CAS No. / Substance Na	me:									
10377-48-7 Lithium sulfa	te, anhydrous	5	, , ,					111		
Identification number(s):		1 1 1		'	н н н					
EC number: 233-820-4							1.			
SECTION 4. FIR		MEAS	URE	S		, , ,				
Description of first aid me	easures	· · ·								
If inhaled:				1.						
Supply patient with fresh	air. If not bre	athing, p	rovide	artificial r	espiratio	n. Kee	p patient	warm.		
Seek immediate medical	advice.				111			111		
In case of skin contact:										
Immediately wash with so	oap and wate	r; rinse th	norougl	hly.						
Seek immediate medical	advice.	1 I 1		1. 1.	1 - 1 1		1. 1.	н н н		
In case of eye contact:										
Rinse opened eye for sev	veral minutes	under ru	Inning V	water. Co	onsult a p	hysicia	an.	111	н 1 - 1	
If swallowed:										
Seek medical treatment.										
Information for doctor	an an tha	1 I					14			
Most important symptom										
No data available		111			111			111		
Indication of any immedia	ate medical a	ttention a	and spe	cial treat	ment ne	eded:				
No data available	an tha			۰.			14. 14.			

## **SECTION 5. FIREFIGHTING MEASURES**

Extinguishing media

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Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the														
surrounding fire.														
Special hazards arising	g from t	he subst	ance or l	mixture				11		. * *				
If this product is involved in a fire, the following can be released:														
Sulfur oxides (SOx)														
Lithium oxide		<sup>1</sup>			<sup>1</sup>				н н н					
Advice for firefighters Protective equipment:	.**				Мар			14. 1						
Wear self-contained respirator. Wear fully protective impervious suit.														
		1. S.												

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipn	nent an	d emer	gency pr	ocedure	S ,		111	
Use personal protective equipment. Kee	ep unpr	otected	l persons	away.				
Ensure adequate ventilation				i.				
Environmental precautions: Do not allow	w produ	ict to er	nter drain	s, sewa	ge syste	ems, or c	other wat	er
courses.								
Methods and materials for containment	and cle	eanup: l	Dispose	of contai	ninated	l materia	l as wast	te i
according to section 13.								
Prevention of secondary hazards: No sp	pecial n	neasure	es require	ed.				
Reference to other sections								
See Section 7 for information on safe ha	andling							
See Section 8 for information on person		ection e		it.			111	н 1 - 1
See Section 13 for disposal information	-		'		1			
			· .			· .		

## SECTION 7. HANDLING AND STORAGE

Handling Precautions for safe handling

				1						
Handle under dry pr	otective gas.			'						
Keep container tight	ly sealed.									
Store in cool, dry pla	ace in tightly clos	sed contair	ners.	1.			14	1 - 1 1		
Ensure good ventila	tion at the work	olace.								
Information about pr	otection agains	t explosion:	s and fi	res: The	product	is not fl	ammable	9		
Conditions for safe s	storage, includin	ig any inco	mpatibi	lities						
Requirements to be	met by storeroc	oms and red	ceptacl	es: No sp	pecial rec	quireme	ents.			
Information about st	orage in one co	mmon stora	age fac	ility:	1					
Store away from wa	ter/moisture.		,							
Store away from oxi	dizing agents.			1						
Further information a	about storage co	onditions:		<sup>1</sup>	1 I		1.1 <sup>1</sup>	1 - 1 1		
Store under dry iner	t gas.	1 - 1 1		1.			1. 1.			
This product is hygro	oscopic.									
Keep container tight	ly sealed.				111					
Store in cool, dry co	nditions in well-	sealed con	tainers.							
Protect from humidit	y and water.Spe	ecific end u	ise(s) N	lo data a	vailable					
· · · · · ·		1 - 1 1			1 - 1 1	1	·	1 - 1 1	1	
SECTION 8.	EXPOSUR		ITRC	DLS/P	ERSC	NAL	• P	111		
PROTECTIO	N :					:				
Additional informatic					ı	,			,	
Properly operating c	hemical fume h	ood design	ed for h	nazardou	is chemio	cals and	d having	an avera	ige	
face velocity of at lea	ast 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 immediat	ely.					
Wash hands before breaks and at the end of work.						
Avoid contact with the eyes.						
Avoid contact with the eyes and skin.			1			
Maintain an ergonomically appropriate working environ	ment.		1			
Breathing equipment: Use suitable respirator when high	h concentr	ations a	are pres	sent.		
Recommended filter device for short term use:	1		1	r.		1
Use a respirator with type P100 (USA) or P3 (EN 143) controls.	cartridges	as a ba	ackup to	o enginee	ring	
Risk assessment should be performed to determine if a	airpurifying		1			
respirators are appropriate. Only use equipment tested	and appro	oved un	ider ap	propriate	governr	nent
standards.						
Protection of hands: Impervious gloves		;••				
Inspect gloves prior to use.	· · · ·	· · ·	1	<sup>1</sup>		
The selection of suitable gloves not only depends on the vary	ne material	, but al	so on q	uality. Qu	ality wil	l ,
from manufacturer to manufacturer.						
Material of gloves Nitrile rubber, NBR		,		.'		
Penetration time of glove material (in minutes) 480		· ·	1			
Glove thickness 0.11 mm	1.					
Eye protection: Safety glasses						
Body protection: Protective work clothing.						
	· · · ·	1 1			1	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance:

Form: Powder

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Color: White					1			1				
Odor: Odorless												
Odor threshold: N	lo data	a availa	ıble.									· · ,
pH: N/A												
Melting point/Melt	ting ra	nge: 8⁄	45 °C (158	53 °F)	, , ,			, , ,				
Boiling point/Boili	ng ran	ge: No	data avai	ilable				1				
Sublimation temp	eratur	e / star	t: No data	ı availal	ble	1. 1.						
Flammability (soli	id, gas	) No da	ata availal	ble.								
Ignition temperatu	ure: No	o data a	availableE					data a	vailable			
Autoignition: No c	lata av	/ailable	<u>+</u>									
Danger of explosi	ion: No	o data a	available.		1	<sup>1</sup>		1				
Explosion limits:			1.			1.						۰.
Lower: No data av	vailabl											
Upper: No data a	vailabl	е								: • •		
Vapor pressure: N								×				
Density at 20 °C (	(68 °F)	): 2.22	g/cm									
3,			1.				н н н		14. 14.			
(18.526 lbs/gal)												
Relative density N	No data	a availa	able.		1 1 1		111				н 1 — 1	. '
Vapor density N/A	۹, ,							1				
Evaporation rate												
Solubility in / Misc	cibility	with										· ·
Water at 25 °C (7												
Partition coefficie	nt (n-o	ctanol/	water): N	o data a	availab	le.		, , ,		: • •		. '
Viscosity:							н н н	1				
Dynamic: N/A						1.						
Kinematic: N/A	,			1	, , ,							
Other information	No da	ata ava	ilable				1 1 1 1					. '
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## SECTION 10. STABILITY AND REACTIVITY

Reactivity No dat	ta availa	able	1.		1 - 1 1		1 I 1							
Chemical stability	y Stable	under	recomme	nded s	torage	conditions								
Thermal decomp	osition	/ condi	tions to be	e avoide	ed: Dec	ompositio	n will no	ot occu	r if used a	nd store	ed			
according to spe	cificatio	ns.												
Possibility of hazardous reactions Reacts with strong oxidizing agents														
Conditions to avoid No data available														
Incompatible materials:														
Oxidizing agents					1			, , ,						
Water/moisture		1		1 1			· ·				:			
Hazardous deco														
Sulfur oxides (SC	Dx)				1.1									
Lithium oxide					н 1 - 1		:	· · · ·						
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# SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects													
Acute toxicity:										: • •			
Harmful if swallo													
The Registry of <sup>-</sup>	Foxic Ef	ects of	Chemica	l Substa	ances (I	RTECS) c	ontains	acute	toxicity da	ata for th	nis		
substance.													
LD/LC50 values	that are	relevar	nt for clas	sificatio	n:								
Oral LD50 1190	mġ/kg (i	nouse)			н 1 - 1		: * *			: • •			
613 mg/kg (rat)		1			;						:		
Skin initation of	0110510	n. way	cause ini	lation									
Eye irritation or o	corrosior	n: Caus	es seriou	s eye ir	ritation.								
Sensitization: No	sensitiz	zing effe	ects know	'n.									
Germ cell mutag	enicity:	The Re	gistry of T	oxic Ef	fects of	Chemica	l Subst	ances (	RTECS)	contains	5 <sup>-</sup>		
mutation data for	r this sul	ostance	• <u>-</u> ,,,,		1								

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: No effects known.

Aspiration hazard: No effects known.

Subacute to chronic toxicity: The Registry of Toxic Effects of Chemical Substances (RTECS) contains

multiple dose toxicity data for this substance.

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:					,						
Persistence and	degrad	ability	No data a	available	Э''	1.		. 11	14		
Bioaccumulative	potenti	al No (	data avail	able							
Mobility in soil N	o data a	availab	le	: * *	1		111			111	
Additional ecolog	gical inf	ormati	on:	1 I 1			н н 1				
Do not allow und			-	•		-					-
systems.				1							
Avoid transfer in	to the e	nviron	ment.								
Results of PBT a				1	1 1		1		.'	1	1 1
PBT: N/A	н н Н			1 1		<sup>1</sup>					
vPvB: N/A			1.			1.			·		
Other adverse ef											
							1.1.1				

### **SECTION 13. DISPOSAL CONSIDERATIONS**

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Waste treatment methods	'									
Recommendation Consult of	ficial requ	lations to		o nronor	dienoea	I				
Uncleaned packagings:							14		11	· · ·
Recommendation: Disposal r	must be m	nade acc	ording	to officia	l regulati	ons.				
			н 1 - 1		1.1.1			: * *		. '
<b>SECTION 14. TRA</b>	NSPO	RT IN	FOF	RMAT	ON					
UN-Number			. • •		1 - 1 1		14			· .
DOT, ADN, IMDG, IATA N/A										
UN proper shipping name										. '
DOT, ADN, IMDG, IATA N/A	· · · <sup>1</sup>		1							
Transport hazard class(es)										
DOT, ADR, ADN, IMDG, IAT										
Class N/A										
Packing group										
DOT, IMDG, IATA N/A				1. 1 <sup>1</sup>						
Environmental hazards: N/A		н н н		14. 14.	1 - 1 1		14. 14.			۰.
Special precautions for user	N/A									
Transport in bulk according t	o Annex I	I of MAR	POL73	3/78 and	the IBC	Code N	I/A	111		. '
Transport/Additional informat	tion:					1				
DOT										
Marine Pollutant (DOT): NoU	IN "Model	Regulati	ion": -	14			14			· · ·

## **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 Warning

Hazard statements H302 Harmful if swallowed. H319 Causes serious eye irritation. Precautionary statements P280 Wear protective gloves/protective clothing/eye protection/face protection. P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. P337+P313 If eye irritation persists: Get medical advice/attention. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 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.

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