

# SAFETY DATA SHEET

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SECTION	1. ID	ENT	IFICA								
Product Name						1 - 1 1	111	. * *		111	. * *
CAS #: 1907-3	-										
Relevant iden		ses of t	the subs	tance: S	Scienti	fic resea	rch and	develo	opment		
Supplier detail		toriolo									
Stanford Adva E-mail: sales@			m			1 1		. * *	н н н	111	
Tel: (949) 407-							1				
Address: 2366		er Dr., L	_ake For	est, CA 9	92630	J.S.A.					
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	1 Birtche	AZAI	RDS I	DENT	TIFIC						 
Address: 2366	1 Birtche		RDS I	DENT	TIFIC		- 		· · ·		
Address: 2366 SECTION Classification This chemical CFR 1910 1200)	1 Birtche	AZAI	RDS I	<b>DENT</b> s by the 2	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR 1910 1200)	1 Birtche	AZAI	RDS I	<b>DENT</b> s by the 2	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR	1 Birtche	AZAI dered h	RDS I	<b>DENT</b> s by the 2	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR 1910.1200) Flammable sol	1 Birtche I <b>2. H</b> is consid ids Cate city Cate	AZAI dered h gory 2 egory 4	RDS I	DENT	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR 1910.1200) Flammable sol Acute oral toxic	1 Birtche I <b>2. H</b> is consic lids Cate city Cate	AZAI dered h egory 2 egory 4 h Cateç	RDS I azardous	DENT	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR 1910.1200) Flammable sol Acute oral toxi Skin Corrosion	1 Birtche I <b>2. H</b> is consid ids Cate city Cate n/Irritation amage/E	AZAI dered h egory 2 egory 4 n Categ Eye Irrit	RDS I azardous gory 1 B ation Ca	<b>DENT</b> s by the 2	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29
Address: 2366 SECTION Classification This chemical CFR 1910.1200) Flammable sol Acute oral toxic Skin Corrosion Serious Eye D	1 Birtche I <b>2. H</b> is consid ids Cate city Cate n/Irritation amage/E	<b>AZA</b> lered h egory 2 egory 4 n Categ Eye Irrit	RDS I azardous gory 1 B ation Ca	<b>DENT</b> s by the 2	<b>TIFIC</b> 2012 C	SHA Haz	zard Cor	nmunic	ation Sta	ndard (2	29

				1	1		,			
Hazard Stateme	nts									
Flammable solid										
Harmful if swallo	wed							t.		
Causes severe s	kin burns an	d eye dan	nage							
Precautionary St	atements									. * *
PreventionWash	face, hands	and any e	exposed	skin th	oroughly	∕ after ha	ndling			
Do not eat, drink	or smoke w	hen using	this pro	duct					:	
Do not breathe d	ust/fume/gas	s/mist/vap	ors/spra	ıy	i	Ĩ		i.		
Wear protective	gloves/prote	ctive cloth	ing/eye	protect	ion/face	protectio	n			
Keep away from	heat/sparks/	open flam	nes/hot s	surface	s No si	moking	1	ı		1
Ground/bond co	ntainer and r	eceiving e	quipme	nt	1 I	, , ,				
Use explosion-p	oof electrica	l/ventilatir	g/lightin	ıg/equij	oment					
Response										
Immediately call	a POISON C	CENTER of	or doctor	/physic	cian					
Inhalation										
IF INHALED: Re	move victim	to fresh a	ir and ke	eep at r	est in a p	position c	omforta	able for b	preathing	ļ
Skin	: :	:						e <sup>r</sup>	-	
IF ON SKIN (or h	nair): Take of	f immedia	tely all o	contam	inated cl	othing. R	inse sk	in with w	ater/sho	wer
Wash contamina	ted clothing	before reu	lse		н н н			н н Н	;**	
Eyes										
IF IN EYES: Rins										
easy to do. Cont	inue rinsing	l'						t.		-
Ingestion										
Rinse mouth			1.1.1					н н н	111	. * *
Do NOT induce	vomiting	н н н								
Fire										
In case of fire: U	se CO2, dry									
Storage										
Store locked up									1.1	
Disposal	· · ·			, , ,	1 - 1 1		н 1 — 1			

Dispose of contents/container to an approved waste disposal plant Hazards not otherwise classified (HNOC) Reacts violently with water

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

Component / CAS-No / Weight % 2-Propanol, 2-methyl-, lithium salt / 1907-33-1 / >95

#### SECTION 4. FIRST AID MEASURES

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if : symptoms occur. Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur. Most important symptoms and effects None reasonably foreseeable. 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 of perforationNotes to Physician Treat symptomatically

## SECTION 5. FIREFIGHTING MEASURES

Suitable Extinguishing Media			1										
Dry chemical, soda ash, lime or sa	ind. appro	ved cl	ass D	extinguisl	ners.								
Unsuitable Extinguishing Media No information available													
Flash Point No information availab	le												
Method - No information available								1 1					
Autoignition Temperature Not appl	icable		1				:						
Explosion Limits													
Upper No data available			1.1						. * *				
Lower No data available				1									
Sensitivity to Mechanical Impact N													
Sensitivity to Static Discharge No i	nformatio	n avai	lable				:						
Specific Hazards Arising from the Chemical													
Flammable. Water reactive. Comb	ustible ma	aterial	. Produ	ce flamm	able ga	ases on	contact v	vith wat	er.				
Flammable. Water reactive. Comb							contact v						
Hazardous Combustion Products	oxide (CC	)2).	I										
Hazardous Combustion Products Carbon monoxide (CO). Carbon di	oxide (CC ions for Fi	02). Irefigh	ters	: :	.:	: 		.:	: .				
Hazardous Combustion Products Carbon monoxide (CO). Carbon di Protective Equipment and Precaut As in any fire, wear self-contained	oxide (CC ions for Fi breathing	)2). refigh appa	ters ratus p	ressure-c	lemand	I, MSHA	A/NIOSH (	(approv	ed				
Hazardous Combustion Products Carbon monoxide (CO). Carbon di Protective Equipment and Precaut As in any fire, wear self-contained or	oxide (CC ions for Fi breathing	02). refigh appa	ters ratus p	ressure-d	lemand	I, MSHA	A/NIOSH (	(approv	ed				
Hazardous Combustion Products Carbon monoxide (CO). Carbon di Protective Equipment and Precaut As in any fire, wear self-contained or equivalent) and full protective gear NFPA Health - 0	oxide (CC ions for Fi breathing	02). refigh appa	ters ratus p	ressure-c	lemand	I, MSHA	A/NIOSH (	(approv	ed				
Hazardous Combustion Products Carbon monoxide (CO). Carbon di Protective Equipment and Precaut As in any fire, wear self-contained or equivalent) and full protective gear NFPA	oxide (CC ions for Fi breathing	02). refigh appa	ters ratus p	ressure-c	lemand	I, MSHA	A/NIOSH (	(approv	ed				
Hazardous Combustion Products Carbon monoxide (CO). Carbon di Protective Equipment and Precaut As in any fire, wear self-contained or equivalent) and full protective gear NFPA Health - 0 Flammability - 0	oxide (CC ions for Fi breathing	)2). refigh appa	ters ratus p	ressure-d	lemand	I, MSHA	A/NIOSH (	(approv	ed				

# SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation. Environmental Precautions

Should not be released into the environment.

Methods for Containment and Clean Up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

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

Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation. Storage

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed. Keep

away from heat, sparks and flame. Corrosives area. Flammables area. Keep under

nitrogen. Keep away from water or moist air. Keep containers tightly closed in a dry, cooland wellventilated place

# SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines** 

This product does not contain any hazardous materials with occupational exposure limits established

by the region specific regulatory bodies.

**Engineering Measures** 

None under normal use conditions.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by

	1 1 1			1 1 1					
OSHA's eye and face protection regulat	tions in	29 CFF	R 1910.133	or Eu	ropean	Standard			
EN166.									
Skin and body protection									:
Wear appropriate protective gloves and		<b>·</b>							
Respiratory Protection									
No protective equipment is needed und	er nórn	naljuse	conditions.						
Hygiene Measures	:	;		1				1	
Handle in accordance with good industr									
	1.1.1			; * *			:		
SECTION 9. PHYSICAL A		СПЕ	ΜΙΟΛΙ	DD	ושסר				
SECTION 9. PHI SICAL P				ΓK	JPEI	TIES			
Physical State Powder Solid									:
Appearance Off-white									
Odor No information available			1 - 1 1			1 - 1 1	: • •		
Odor Threshold No information availabl	е								
pH 7			1			1			
Melting Point/Range No data available									:
Boiling Point/Range No information ava	ilable								
Flash Point No information available	1 1 1		н н н	:		н н Н	:	111	
Evaporation Rate Not applicable									
Flammability (solid,gas) No information									
Flammability or explosive limits				:					
<b>7</b> 1					1		,		:

Vapor Density Not applicable

Vapor Pressure No information available

Specific Gravity 0.890

Lower No data available

Solubility No information available

Partition coefficient; n-octanol/water No data available

Autoignition Temperature Not applicable

Decomposition Temperature No	o inform	ation av	ailable					
Viscosity Not applicable								
Molecular Formula C4H9LiO	:			:		t i	-	
Molecular Weight 80.06								
					 		111	

## SECTION 10. STABILITY AND REACTIVITY

Reactive Hazard YesStability Reacts violently with water. Hygroscopic. Moisture sensitive.

Conditions to Avoid Keep away from open flames, hot surfaces and sources of ignition. Incompatible products. Exposure to moist air or water.

Incompatible Materials Acids, Water, Oxidizing agent

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Polymerization No information available. Hazardous Reactions None under normal

processing.

## SECTION 11. TOXICOLOGICAL INFORMATION

Acute Toxicity												
Product Information		н н н	: * *		н н н	111			111			
Component Information												
Toxicologically Synergis	stic											
Products		1 <sup>1</sup>					:	: <sup>1</sup>				
No information available												
Delayed and immediate effects as well as chronic effects from short and long-term exposure												
Irritation No information available												
Sensitization No information available												
Mutagenic Effects No information available												
Reproductive Effects No information available. Developmental Effects No information available.												
Teratogenicity No information available. STOT - single exposure None known												
STOT - repeated expos	ure No	ne knowr	י ר י	н 1 — 1				1 - 1 1				

Symptoms / effects,both acute and delayed 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 of perforation Endocrine Disruptor Information No information available Other Adverse Effects The toxicological properties have not been fully investigated

Aspiration hazard No information available

# 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.

## **SECTION 14. TRANSPORT INFORMATION**

UN-No UN2925											
Proper Shipping Nar	ne Flamm	nable soli	d, corro	sive, or	ganic, n.	0.S.					
Technical Name 2-P	-	-									
Hazard Class 4.1											
Subsidiary Hazard C	lass 8	1 - 1 1			1 I 1			1 I			
Packing Group II TDG	1	:	:	:	ť	:	;	ť	:	:	
UN-No UN2925											
Proper Shipping Nar											
Subsidiary Hazard C	lass 8	н н н			1 I		н 1 — 1	1 I			
Packing Group II											
ΙΑΤΑ											
UN-No UN2925			111			111			111		
Proper Shipping Nar	ne Flamm				-						
Subsidiary Hazard C	lass 8										
Packing Group II		i'							-		
IMDG/IMO											
UN-No UN2925		н н н	: * *		1 I			н н Н	111		
Proper Shipping Nar	ne Flamm	nable soli	d, corro	sive, or	ganic, n.	o.s. Haza	ard Cla	ss 4,1			
Subsidiary Hazard C	lass 8				,			,			
Packing Group II		i. L		1			1	t. L			
in the second	- 10 1	н н 1	: ' '		1 - 1 1			1 - 1 1	: · ·		
SECTION 15.	REG	JLAT	1	'	ORMA						
U.S. Federal Regula SARA 313 Not applic		ť	:			:	:	i'	;		
SARA 311/312 Haza CWA (Clean Water A	ard Catego	ories See	e section	12 for n	nore info	rmation		н н. Н			
Clean Air Act Not ap					1 - 1 1						

	1									
OSHA - Occupational Safet	y and									
Health Administration										
Not applicable							: É			
CERCLA Not applicable										
California Proposition 65 Th	nis product o									
U.S. State Right-to-Know				1 - 1 1			1 - 1 1			
Regulations		:	:			:		:	:	
Not applicable	i		i	i	i	i	i	i.		
U.S. Department of Transpo	ortation									
Reportable Quantity (RQ): I	N		,							
DOT Marine Pollutant N			н 1 - 1	1 I						
DOT Severe Marine Polluta	int N						:			
U.S. Department of Homela	and									
Security		; • •			; • •		1 - 1 1	; • •		
This product does not conta	ain any DHS									
Mexico - Grade No informa	tion availab	le								

#### **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.