XI'AN AOGU BIOTECH CO., LTD Tel number | 0086-29-89121514

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		ac	cording to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8		
			Identification of the Substa					
.1	Product		22192			laonaning		
	Product		Benfotiamine					
	Synonyn	ns:	benzenecarbothioic acid	,				
			S-[2-[[(4-amino-2-methyl 1-yl] ester; Benzoylthian			2-(phosphonooxy)ethyl]-1-prope ne O-monophosphate;		
.2	Relevant	identified uses	of the substance or mixture a	and uses advised a	gainst:			
	Releva	nt identified use	s: For research use only, n	ot for human or vete	rinary use.			
1.3	Details o	f the Supplier of	the Safety Data Sheet:					
	Compa	ny Name: XI'AN	AOGU BIOTECH CO.,LTD					
	I	nformation:						
	Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road,Yanta District,							
			n Shaanxi 710065 China					
	Web: <u>www.AOGUBIO.com</u>							
			ne/Fax: 0086-29-89121514	00 40004040004				
		Eme	rgency Telephone Number: 00					
			Section 2. Ha	izards Identifi	cation			
2.1	Classification of the Substance or Mixture:							
2.2	Label Elements:							
	GHS Signal Word: None							
	GHS Hazard Phrases:							
	Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS.							
	GHS Precaution Phrases: No phrases apply.							
	GHS Response Phrases: No phrases apply.							
	-	torage and Disp	osal Phrases:					
	Please	refer to Section 7	for Storage and Section 13 for	Disposal informatio	n.			
2.3	Adverse Human HealthMaterial may be irritating to the mucous membranes and upper respiratory tract.Effects and Symptoms:May be harmful by inhalation, ingestion, or skin absorption.							
	May cause eye, skin, or respiratory system irritation.							
			To the best of our knowledge	e, the toxicological pi	roperties have not	been thoroughly investigated.		
		Sec	tion 3. Compositior	n/Information	on Ingredie	nts		
CAS # / RTECS #		Hazardous Com REACH Registra	ponents (Chemical Name)/ ation No.	Concentration	EC No./ EC Index No.	GHS Classification		
	7-89-2	Benfotiamine		100.0 %	245-013-4 NA	No data available.		

		Section 4. First Aid Measures
l.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
	In Case of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.
	In Case of Ingestion:	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing Media:	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.
	Unsuitable Extinguishing	g A solid water stream may be inefficient.
	Media:	
5.2	Flammable Properties an	dNo data available.
	Hazards:	
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instruction	s :As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.
	Protective Equipment an Emergency Procedures:	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3	Methods and Material Fo	r Contain spill and collect, as appropriate.
		ngTransfer to a chemical waste container for disposal in accordance with local regulations.
		Section 7. Handling and Storage
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2		Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
	•	

Exposure Controls:							
-	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	levels below recommended exposure limits.						
-	Compatible chemical-resistant gloves						
-	NIOSH approved respirator, as conditions warrant.						
	NOST approved respirator, as conditions warrant.						
Work/Hygienic/MaintenanDo not take internally.ce Practices:Facilities storing or utilizing this material should be equipped with an eyewashand a safety s							
	Wash thoroughly after handling.						
	No data available.						
Se	ection 9. Physical and Chemical Properties						
	ical and Chemical Properties						
Physical States:	[]Gas []Liquid [X]Solid						
Appearance and Odor:	A crystalline solid						
pH:	No data.						
Melting Point:	No data.						
Boiling Point:	No data.						
Flash Pt:	No data.						
Evaporation Rate:	No data.						
Flammability (solid, gas):	No data available.						
Explosive Limits:	LEL: No data. UEL: No data.						
Vapor Pressure (vs. Air or	mm No data.						
Hg):							
Vapor Density (vs. Air = 1)	: No data.						
Specific Gravity (Water = 1	I): No data.						
Solubility in Water:	No data.						
Solubility Notes:	~1 mg/ml in a 0.1 M solution of ammonium hydroxide; soluble (slightly) in DMSO;						
Octanol/Water Partition	No data.						
Coefficient:							
Autoignition Pt:	No data.						
Decomposition Temperatu	ure: No data.						
Viscosity:	No data.						
Other Information							
Percent Volatile:	No data.						
Molecular Formula & Weig	ht: C19H23N4O6PS 466.5						
	(Ventilation etc.): Personal protection equip Eye Protection: Protective Gloves: Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Sec Information on Basic Phys Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or Hg): Vapor Density (vs. Air = 1) Specific Gravity (Water = 1) Solubility Notes: Octanol/Water Partition Coefficient: Autoignition Pt: Decomposition Temperatu Viscosity: Other Information Percent Volatile:						

			Section 10. Stability a	and Read	ctivit	У		
10.1 10.2 10.3 10.4 10.5 10.6	Incompa To Avoic Hazardo	Note(s): ization: ons To Avoid: ntibility - Materials I: us osition or	No data available. Unstable [] Stable [X] Stable if stored in accordance with in Will occur [] Will not occur [X] No data available. strong oxidizing agents carbon dioxide carbon monoxide nitrogen oxides phosphorous oxides nitrogen oxides Section 11 Toxicologi				sert.	
11.1		ion on gical Effects: Toxicological	Section 11. Toxicological Information The toxicological effects of this product have not been thoroughly studied. Benfotiamine - Toxicity Data: Oral LD50 (mouse): 15 gm/kg; Benfotiamine - Investigated as a drug. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information. Benfotiamine RTECS Number: DH6910000					
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP		IARC	ACGIH	OSHA
2245	57-89-2	Benfotiamine		n.a.		n.a.	n.a.	n.a.
12.1 12.2 12.3 12.4 12.5	assessm	nce and bility: mulative I: in Soil: of PBT and vPvB nent:						
12.6	Other ad	verse effects:	No data available.	Consider	ation			
13.1	Waste D	isposal Method	Section 13. Disposal Dispose in accordance with local, sta					

	Section 14. Trar	nsport Informa	ation			
RANSPORT (US	DOT):					
er Shipping Name	: Not dangerous goods.					
d Class:						
nber:						
RANSPORT (Eur	opean ADR/RID):					
hipping Name:	Not dangerous goods.					
r:						
ss:						
ANSPORT (ICAO/	/IATA):					
Shipping Name:	Not dangerous goods.					
nsport	Transport in accordance with le	ocal, state, and fede	ral regulations.			
	Section 15. Regu	ulatory Inform	ation			
	ponents (Chemical Name)	S. 302 (EHS)		S. 313 (TRI)		
			I	No		
	ponents (Chemical Name)					
Beniouarnine			CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
tement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Ot	her Informatio	on			
	05/09/2021					
rmation About	No data available.					
y or Disclaimer:	DISCLAIMER: This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.					
	er Shipping Name d Class: nber: RANSPORT (Eur hipping Name: r: ss: ANSPORT (ICAO) Shipping Name: nsport Derfund Amendr Hazardous Corr Benfotiamine Hazardous Corr Benfotiamine	RANSPORT (US DOT): or Shipping Name: Not dangerous goods. d Class: nber: RANSPORT (European ADR/RID): hipping Name: Not dangerous goods. r: ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. nsport Transport in accordance with le Section 15. Regu perfund Amendments and Reauthorization Act Hazardous Components (Chemical Name) Benfotiamine Hazardous Components (Chemical Name) Benfotiamine This SDS was prepared in according to the section 16. Of 05/09/2021 rmation About No data available. y or Disclaimer: DISCLAIMER: This information currently available to us. Howe express or implied, with respect use. Users should make their	RANSPORT (US DOT): rr Shipping Name: Not dangerous goods. d Class: nber: RANSPORT (European ADR/RID): hipping Name: Not dangerous goods. r: ss: SNSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. nsport Transport in accordance with local, state, and feder Section 15. Regulatory Inform perfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) Benfotiamine No Hazardous Components (Chemical Name) Other US EPA or Benfotiamine CAA HAP,ODC: CA PROP.65: No CAA HAP,ODC: CA PROP.65: No CAPROP.65: No This SDS was prepared in accordance with 29 CFR tement: No.1272/2008. Section 16. Other Information 05/09/2021 rmation About No data available. y or Disclaimer: DISCLAIMER: This information is believed to be ac currently available to us. However, we make no wa express or implied, with respect to such information use. Users should make their own investigations to the state of the state own investigations to the state own investigations to the state own inve	r Shipping Name: Not dangerous goods. d Class: nber: RANSPORT (European ADR/RID): hipping Name: Not dangerous goods. r: ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. r: ss: ANSPORT (ICAO/IATA): Shipping Name: Not dangerous goods. Transport in accordance with local, state, and federal regulations. Section 15. Regulatory Information perfund Amendments and Reauthorization Act of 1986) Lists Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ Benfotiamine No No Hazardous Components (Chemical Name) Other US EPA or State Lists Benfotiamine CAA HAP,ODC: No; CWA NPDES: CAA HAP,ODC: No; CWA NPDES: CAA PROP.65: No This SDS was prepared in accordance with 29 CFR 1910.1200 and Re No.1272/2008. This SDS was prepared in accordance with 29 CFR 1910.1200 and Re No.1272/2008. USECtion 16. Other Information 05/09/2021 rmation About No data available. y or Disclaimer: DISCLAIMER: This information is believed to be accurate and represer currently available to us. However, we make no warranty of merchantal express or implied, with respect to such information, and we assume no use. Users should make their own investigations to determine the suita		