

Revision: 08/22/2017

		Section 1. Id	entification of the Substar	nce/Mixture and of	the Company/Llr	ndertaking	
						lucituking	
.1	Product Co		21570				
	Product Na		GTS-21 (hydrochloride)			0) kies wielie en elike elementele eielen	
	Synonyms: (3E)-3-[(2,4-dimethoxyphenyl)methylene]-3,4,5,6-tetrahydro-2,3'-bipyridine, dihydrochlo DMBX-A;						
.2	Relevant identified uses of the substance or mixture and uses advised against:						
	Relevant i	dentified uses:	For research use only, no	ot for human or vete	rinary use.		
1.3	Details of th	ne Supplier of the	e Safety Data Sheet:				
	Company	Name:	Cayman Chemical Comp	bany			
			1180 E. Ellsworth Rd.				
			Ann Arbor, MI 48108				
	Web site a	address:	www.caymanchem.com				
	Informatio	on:	Cayman Chemical Comp	pany	+1 (734	4)971-3335	
.4		telephone numb					
	Emergend	cy Contact:	CHEMTREC Within USA			0)424-9300	
			CHEMTREC Outside US	A and Canada:	+1 (70	3)527-3887	
			Section 2. Haz	zards Identifi	cation		
2.1	Classificati	on of the Substa	nce or Mixture:				
2.2	Label Elements:						
	GHS Signal Word: None						
	GHS Hazard Phrases:						
		ard Phrases:					
			ently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.	
	Based on	evaluation of curr	ently available data this sub	stance or mixture is	not classifiable ac	cording to GHS.	
	Based on GHS Prec	evaluation of curr aution Phrases:	-	stance or mixture is	not classifiable ac	cording to GHS.	
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		Section 4. First Aid Measures			
4.1	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 contaminated 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	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.			
	Media:	Use water spray to cool fire-exposed containers.			
	Unsuitable Extinguishing Media:	A solid water stream may be inefficient.			
5.2	Flammable Properties andNo 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 Instructions	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	d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,			
	Emergency Procedures:	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		r Contain spill and collect, as appropriate.			
		Transfer to a chemical waste container for disposal in accordance with local regulations.			
	Up:				
		Section 7. Handling and Storage			
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.			
	in Handling:	Avoid prolonged or repeated exposure.			
7.2	Precautions To Be Taker	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:				
1					

Multi-region format



8.2	3.2 Exposure Controls:						
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne					
	(Ventilation etc.): levels below recommended exposure limits.						
8.2.2	Personal protection equipment:						
	Eye Protection:	<i>i</i> glasses					
	Protective Gloves: Compatible chemical-resistant gloves						
	Other Protective Clothing:Lab coat						
	Respiratory Equipment	NIOSH approved respirator, as conditions warrant.					
	(Specify Type):						
	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower					
	l l	Wash thoroughly after handling.					
	1	ata available.					
	Se	ection 9. Physical and Chemical Properties					
9.1	Information on Basic Physical and Chemical Properties						
	Physical States:	[]Gas []Liquid [X]Solid					
	Appearance and Odor:	A 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)): No data.					
	Solubility in Water:	No data.					
	Solubility Notes:	Soluble in: water;					
	Octanol/Water Partition	No data.					
	Coefficient:						
	Autoignition Pt:	No data.					
	Decomposition Temperatu	e: No data.					
	Viscosity:	No data.					
9.2	Other Information						
	Percent Volatile:	No data.					
	Molecular Formula & Weigl	ht: C19H20N2O2 • 2HCI 381.3					

Multi-region format



Multi-region format

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Hazardous Co	GTS-21 (hydrochloride) RTECS Nur mponents (Chemical Name)	mber: DW1764860)							
	mponents (Chemical Name)		5		GTS-21 (hydrochloride) RTECS Number: DW1764860					
		NTP								
05-1 GTS-21 (hydro	chloride)		IARC	ACGIH	OSHA					
		n.a.	n.a.	n.a.	n.a.					
	Section 12. Ecologic	cal Informati	on							
oxicity:	Avoid release into the environment.	Avoid release into the environment.								
	Runoff from fire control or dilution w	ater may cause po	ollution.							
ersistence and	No data available.									
egradability:										
oaccumulative	No data available.									
otential:										
obility in Soil:	No data available.									
-										
sessment:										
her adverse effects:	No data available.									
		Considerati	005							
acto Disposal Mothes	· · · · ·									
aste Disposal Method	: Dispose in accordance with local, st	ate, and rederal re	egulations.							
oa ote ob sse	ccumulative ntial: ility in Soil: ults of PBT and vPv essment: er adverse effects:	ccumulativeNo data available.ntial:No data available.ility in Soil:No data available.ults of PBT and vPvBNo data available.er adverse effects:No data available.Er adverse effects:No data available.Section 13. Disposal	ccumulative No data available. ntial: No data available. ility in Soil: No data available. ults of PBT and vPvB No data available. essment: No data available. er adverse effects: No data available. Section 13. Disposal Consideration	ccumulativeNo data available.ntial:ility in Soil:No data available.ults of PBT and vPvBNo data available.ssment:	ccumulative No data available. ntial: No data available. ility in Soil: No data available. ults of PBT and vPvB No data available. ssment: No data available. er adverse effects: No data available. Section 13. Disposal Considerations					



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	Section 14. Transport Information						
14.1 LAND T	RANSPORT (US		1				
14.1 LAND TRANSPORT (US DOT): DOT Proper Shipping Name: Not dangerous goods.							
DOT Hazar		. Not dangerous goods.					
UN/NA Nun	UN/NA Number:						
14.1 LAND T							
ADR/RID S	hipping Name:	Not dangerous goods.					
UN Number	UN Number:						
Hazard Cla	Hazard Class:						
14.3 AIR TRA	14.3 AIR TRANSPORT (ICAO/IATA):						
ICAO/IATA Shipping Name: Not dangerous goods.							
Additional Tran	nsport	Transport in accordance with lo	ocal, state, and feder	ral regulations.			
Information:							
		Section 15. Regu	latory Informa	ation			
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
156223-05-1	GTS-21 (hydroch	nloride)	No	No	No		
CAS # Hazardous Components (Chemical Name)			Other US EPA or	r State Lists			
156223-05-1				CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	Regulatory Information This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.					
Section 16. Other Information							
Revision Date:		08/22/2017					
Additional Infor	rmation About	No data available.					
This Product:							
Company Polic	y or Disclaimer:	DISCLAIMER: This information	is believed to be ac	curate and represe	nts the best information		
currently available to us. However, we make no warranty of merchantability or					bility or any other warranty,		
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