

	Section 1. Id	entification of the Substance/Mixture and of the	ne Company/Undertaking			
.1	Product Code:	22818	1 5 5			
	Product Name:	4-cyano CUMYL-BUT7AICA				
	Synonyms:	1-(4-cyanobutyl)-N-(1-methyl-1-phenylethyl)-1	H-pyrrolo[2,3-b]pyridine-3-carboxamide			
		4CN-CUMYL-B7AICA; 4CN-CUMYL-BUT7AIC				
.2	Relevant identified uses of the substance or mixture and uses advised against:					
	Relevant identified uses: For research use only, not for human or veterinary use.					
.3	Details of the Supplier of the Safety Data Sheet:					
	Company Name:	Cayman Chemical Company				
		1180 E. Ellsworth Rd.				
		Ann Arbor, MI 48108				
	Web site address:	www.caymanchem.com				
	Information:	Cayman Chemical Company	+1 (734)971-3335			
.4	Emergency telephone numb	er:				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
		Section 2. Hazards Identific	ation			
4	Classification of the Substa	and or Mixture.				
.1	Classification of the Substa	nce or Mixture:				
	Acute Toxicity: Inhalation, Category 4					
		Category 4				
	Acute Toxicity: Oral, Cate					
	-	gory 4				
.2	Acute Toxicity: Oral, Cate	gory 4				
.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	gory 4				
2.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	gory 4				
.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate	gory 4				
2.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements:	gory 4 gory 4				
.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word:	gory 4 gory 4				
.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases:	gory 4 gory 4 Warning				
2.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	gory 4 gory 4 Warning				
2.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wi H332: Harmful if inhaled.	gory 4 gory 4 Warning				
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful in contact wi H332: Harmful if inhaled. GHS Precaution Phrases:	gory 4 gory 4 Warning th skin.				
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.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful if swallowed. H312: Harmful in contact wi H332: Harmful if inhaled. GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWED P302+352: IF ON SKIN: Wa	gory 4 gory 4 gory 4 Warning th skin. /fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protecti D: P312: Call a POISON CENTER or doctor/phys ish with plenty of soap and water. emove victim to fresh air and keep at rest in a pos	ician if you feel unwell.			
.2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H312: Harmful if swallowed. H312: Harmful in contact wi H332: Harmful if inhaled. GHS Precaution Phrases: P261: Avoid breathing {dust P264: Wash {hands} thorou P280: Wear {protective glow GHS Response Phrases: P301+312: IF SWALLOWEI P302+352: IF ON SKIN: Wa P304+340: IF INHALED: Response	gory 4 gory 4 gory 4 Warning th skin. /fume/gas/mist/vapors/spray}. ghly after handling. es/protective clothing/eye protection/face protecti D: P312: Call a POISON CENTER or doctor/phys ish with plenty of soap and water. emove victim to fresh air and keep at rest in a pos	ician if you feel unwell.			
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Revision: 03/10/2018

2.3		e Human Health and Symptoms:	Harmful if inhaled, swallowed, or in contact with skin. Material may be irritating to the mucous membranes and upper respiratory tract. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sect	ion 3. Composition	/Information of	on Ingredie	nts		
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
21605 NA	55-53-1	4-cyano CUMYL-BU	TAICA 100.0 % NA Acute Tox.(O) 4: H NA Acute Tox.(D) 4: H Acute Tox.(I) 4: H					
		•	Section 4. Fi	rst Aid Measu	res			
4.1	Descrip	tion of First Aid						
	Measur	es:						
	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 and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by r unconscious person. Get medical attention. Do NOT induce vomiting unless directed medical personnel.				5 minutes. Have eyes examined				
			Section 5. Fire	Fighting Mea	sures			
5.1	Suitable	e Extinguishing	Use alcohol-resistant foam, c	arbon dioxide, water	, or dry chemical	spray.		
	Media:		Use water spray to cool fire-e	exposed containers.				
	Unsuitable Extinguishing A solid water stream may be inefficient. Media:							
5.2	Flamma Hazarda	-	d No data available.					
			No data available.					
	Flash P	't:	No data.					
	Explosi	ve Limits:	LEL: No data. UEL: No data.					
	Autoigr	nition Pt:	No data.					
5.3	Fire Fighting Instructions: 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. Acciden	tal Release N	leasures			
6.1	Protect	ive Precautions,	Avoid raising and breathing	dust, and provide ade	equate ventilatior	ו ז.		
	Protect	ive Equipment and	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					, and heavy rubber gloves).			
6.2	Enviror	nmental	Take steps to avoid release	into the environment	, if safe to do so.			
	Precau	tions:						
6.3			r Contain spill and collect, as a gTransfer to a chemical waste		al in accordance	with local regulations.		
						Multi-region format		



Revision: 03/10/2018

		Section 7. Handling and Storage				
7.1	Precautions To Be Taken	ecautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.				
	in Handling:	Avoid prolonged or repeated exposure.				
7.2	Precautions To Be Taken	NKeep container tightly closed.				
	in Storing:	Store in accordance with information listed on the product insert.				
	Section	on 8. Exposure Controls/Personal Protection				
8.1	Exposure Parameters:					
8.2	Exposure Controls:					
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	(Ventilation etc.):	evels below recommended exposure limits.				
8.2.2	Personal protection equipr					
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:	_ab 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 showe				
	Wash thoroughly after handling.					
	No data available.					
	Se	ction 9. Physical and Chemical Properties				
9.1		cal 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 i	mm No data.				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1)	: No data.				
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					



Revision: 03/10/2018

	Autoignition Pt:	No data.				
	Decomposition Ten	•				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula	& Weight: C22H24N4O 360.5				
	Section 10. Stability and Reactivity					
10.1	Reactivity:	No data available.				
10.2	Stability: Unstable [] Stable [X]					
10.3	Stability Note(s): Stable if stored in accordance with information listed on the product insert.					
	Polymerization:	Will occur [] Will not occur [X]			
10.4	Conditions To Avoi	d: No data available.				
10.5	Incompatibility - Ma	aterials No data available.				
	To Avoid:					
10.6	Hazardous	No data available.				
	Decomposition or					
	Byproducts:					
		Section 11. Toxicolog	jical Informa	ition		
11.1	Information on	The toxicological effects of this proc			udied.	
	Toxicological Effec			,		
CAS #		s Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
21605	55-53-1 4-cyano C	UMYL-BUT7AICA	n.a.	n.a.	n.a.	n.a.
		Section 12. Ecologie	cal Informati	on		
12.1	Toxicity:	Avoid release into the environment.				
		Runoff from fire control or dilution w	ater may cause po	ollution.		
12.2	Persistence and	No data available.				
	Degradability:					
12.3	Bioaccumulative	No data available.				
	Potential:					
12.4	Mobility in Soil:	No data available.				
12.5	Results of PBT and	vPvB No data available.				
	assessment:					
12.6	Other adverse effect	ts: No data available.				
	Section 13. Disposal Considerations					
13.1	Waste Disposal Me	thod: Dispose in accordance with local, st	tate, and federal re	gulations.		
1						

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Revision: 03/10/2018

Section 14. Transport Information						
14.1 LAND TRANSPORT (US DOT):						
DOT Proper Shipping Name: Not dangerous goods. DOT Hazard Class: UN/NA Number:						
14.1 LAND T	RANSPORT (Euro	opean ADR/RID):				
ADR/RID S	hipping Name:	Not dangerous goods.				
UN Numbe						
Hazard Cla						
		-				
	Shipping Name:	Not dangerous goods.				
Additional Tra	nsport	Transport in accordance with lo	cal, state, and feder	al regulations.		
		Continue 15 Docum		- <u>-</u>		
L		Section 15. Regul	, , , , , , , , , , , , , , , , , , ,	ation		
· · · ·		nents and Reauthorization Act	-			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
2160555-53-1	4-cyano CUMYL-		No	No	No	
CAS #		ponents (Chemical Name)	Other US EPA or State Lists			
2160555-53-1	4-cyano CUMYL-	BUT7AICA	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info Statement:	ormation	This SDS was prepared in acco No.1272/2008.	ordance with 29 CFR 1910.1200 and Regulation (EC)			
		Section 16. Oth	ner Informatio	on		
Revision Date:		03/10/2018				
Additional Info	rmation About	No data available.				
This Product:						
Company Polic	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.				