

SAFETY DATA SHEET

NUCHB-1 Revision: 10720201 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking Section 1. Identification of the Substance/Mixture and of the Company/Undertaking Product Name: MCHB-1 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking Product Name: MCHB-1 Section 1. Identification of the Substance/Mixture and Uses advised against: 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 Suppler of the Safety Data Sheet: Company Name: Cayman Chemical Company Cayman Chemical Company 11 (800 / 149 / 108 / 149 / 13335 Web site address: www.caymanchem.com Information: Cayman Chemical Company 11 (800 / 149 / 173 / 1335 Section 2. Hazards Identification 11 (Classification of the Substance or Mixture: Label Elements: GHS Signal Word: None GHS Stora	9	4		SAFE	TY DATA SH	IEET	Page:	
according to Regulation (EC) No. 1997/2006 as amended by (EC) No. 2015/8828 and US OSH4 HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1. Product Code: 9001949 Product Name: MCHB-1 Synonyms: 1-(cyclohexylmethyl)-2-[(4-ethoxyphenyl)methyl]-N.N-diethyl-1H-benzimidazole-5-carboxam N-Methylcyclohexyl benzimidazole analog 1; 2. Relevant identified uses of the substance or mixture and uses advised against: Relevant identified uses: For research use only, not for human or vaterinary use. 3. Details of the Supplier of the Safety Data Sheet: Company Name: Company Name: Cayman Chemical Company 1100 E, Elisworth Rd. Ann Arbor, MI 48108 Web site address: www.caymanchem.com Information: Cayman Chemical Company +1 (703)527-3887 Section 2. Hazards Identification 11 Classification of the Substance or Mixture: Label Elements: GHS Signal Word: None GHS Receaution Phrases: No phrases apply. GHES Signal Word: None GHES Signal Word: None GHES Reponse Phrases: No phrases apply. <th></th> <th>man</th> <th></th> <th></th> <th>MCHB-1</th> <th></th> <th>Revision: 07/20/20</th>		man			MCHB-1		Revision: 07/20/20	
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May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated Section 3. Composition/Information on Ingredients CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification 046140-32-2 MCHB-1 100.0 % NA No data available.	3	Advers	e Human Health	Material may be irritating to t	the mucous membra	anes and upper rea	spiratory tract.	
To the best of our knowledge, the toxicological properties have not been thoroughly investigated Section 3. Composition/Information on Ingredients CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification 046140-32-2 MCHB-1 100.0 % NA No data available.		Effects	and Symptoms:	May be harmful by inhalation	n, ingestion, or skin a	absorption.		
Section 3. Composition/Information on Ingredients CAS # / Hazardous Components (Chemical Name)/ Concentration EC No./ GHS Classification CAS # / REACH Registration No. 100.0 % NA No data available.				May cause eye, skin, or resp	piratory system irritat	tion.		
CAS # / RTECS # Hazardous Components (Chemical Name)/ REACH Registration No. Concentration EC Index No. EC No./ EC Index No. GHS Classification 046140-32-2 MCHB-1 100.0 % NA No data available.				To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigate	
Concentration EC No./ EC Index No. GHS Classification 046140-32-2 MCHB-1 100.0 % NA No data available.			Secti	on 3. Composition	/Information	on Inaredie	nts	
RTECS # REACH Registration No. EC Index No. 046140-32-2 MCHB-1 100.0 % NA No data available.	:AS	#/	1	•	1		1	
			-		Concentration		GIS Classification	
	046′	40-32-2	_		100.0 %	NA	No data available.	
	JA					NA		

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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 an	d Can release vapors that form explosive mixtures at temperatures at or above the flash point.					
	Hazards:	Container explosion may occur under fire conditions.					
		Emits toxic fumes under fire conditions.					
		Sensitive to static discharge.					
		Vapors can travel to a source of ignition and flash back.					
		No data available.					
	Flash Pt:	No data.					
	Explosive Limits:	LEL: No data. UEL: No data.					
	Autoignition 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.					
		Note: Flammable as diluted in methyl acetate.					
		Section 6. Accidental Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.					
	Protective Equipment and	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	Methods and Material Fo	Contain spill and collect, as appropriate.					
		gTransfer to a chemical waste container for disposal in accordance with local regulations.					
	Up:						
		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.					
	Other Precautions:	Protect from moisture.					
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osure Parameters: osure Controls: ineering Controls Us ntilation etc.): lev sonal protection equipment Protection: Sa sective Gloves: Co er Protective Clothing:La piratory Equipment Nice ecify Type): k/Hygienic/Maintenan Do Practices: Fa Wa No Section	afety glasses ompatible chemical-resistant gloves Ib coat OSH approved respirator, as conditions warrant.
bosure Controls: ineering Controls Us initiation etc.): leve sonal protection equipment Protection: Sa tective Gloves: Co er Protective Clothing: La piratory Equipment Nice erify Type): rk/Hygienic/Maintenan Do Practices: Fa Wa No Sec mation on Basic Physical sical States: learance and Odor:	vels below recommended exposure limits. ent: afety glasses ompatible chemical-resistant gloves bb coat OSH approved respirator, as conditions warrant. o not take internally. acilities storing or utilizing this material should be equipped with an eyewash and a safety show ash thoroughly after handling. o data available. tion 9. Physical and Chemical Properties al and Chemical Properties [] Gas [] Liquid [] Mo data.
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ecify Type): k/Hygienic/Maintenan Do Practices: Fa Wa No Sec mation on Basic Physica sical States: earance and Odor:	o not take internally. acilities storing or utilizing this material should be equipped with an eyewash and a safety show ash thoroughly after handling. o data available. tion 9. Physical and Chemical Properties al and Chemical Properties []Gas []Liquid [X]Solid A crystalline solid No data.
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earance and Odor:	A crystalline solid No data.
	No data.
ing Point:	
ing Point:	No data
ing Point:	No data.
sh Pt:	No data.
poration Rate:	No data.
nmability (solid, gas):	No data available.
losive Limits:	LEL: No data. UEL: No data.
or Pressure (vs. Air or m	m No data.
or Density (vs. Air = 1):	No data.
cific Gravity (Water = 1):	No data.
ubility in Water:	No data.
ubility Notes:	~0.2 mg/ml in a 1:4 solution of EtOH:PBS (pH 7.2); ~30 mg/ml in EtOH & DMF; ~25 mg/n in DMSO;
anol/Water Partition	No data.
Dignition Pt:	No data.
omposition Temperature	: No data.
osity:	No data.
er Information	
cent Volatile:	No data.
ecular Formula & Weight	: C28H37N3O2 447.6
a f c c	bility Notes: nol/Water Partition ficient: ignition Pt: omposition Temperature osity: Information ent Volatile:



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_	TIMICAL				Si		ion: 02/04/20
			Section 10. Stability a	nd Reactiv	/ity		
10.1	Reactivity:		No data available.		•		
10.2	Stability:		Unstable [] Stable [X]				
10.3	Stability Not	e(s):	Stable if stored in accordance with inf	ormation listed o	on the product	insert.	
	Polymerizati	on:	Will occur [] Will not occur [X]				
10.4	Conditions T	o Avoid:	No data available.				
10.5	Incompatibil	ty - Materials	s No data available.				
	To Avoid:						
10.6	Hazardous		No data available.				
	Decompositi	on or					
	Byproducts:						
			Section 11. Toxicologic	cal Informa	ation		
11.1	Information	on	The toxicological effects of this produc	ct have not been	thoroughly st	udied.	
	Toxicologica	I Effects:					
CAS #	# Haz	ardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
10461	40-32-2 MC	HB-1		n.a.	n.a.	n.a.	n.a.
			Section 12. Ecologica	al Informati	on		·
12.1	Toxicity:		Avoid release into the environment.				
			Runoff from fire control or dilution wat	er may cause po	ollution.		
12.2	Persistence	and	No data available.				
	Degradabilit	<i>ı</i> :					
12.3	Bioaccumula	tive	No data available.				
	Potential:						
12.4	Mobility in Soil: No data available.						
12.5	5 Results of PBT and vPvB No data available.						
	assessment						
12.6	Other advers	e effects:	No data available.				
			Section 13. Disposal C	Considerati	ons		
13.1	Waste Dispo	sal Method:	Dispose in accordance with local, stat	e, and federal re	egulations.		
			Section 14. Transport	rt Informati	ion		
14.1	LAND TRAN	SPORT (US	DOT):				
	OT Proper Sh	pping Name					
	-						
	OT Hazard Cla						
D	N/NA Number						
D	N/NA Number		opean ADR/RID):				
D(UI 14.1	N/NA Number	SPORT (Euro	opean ADR/RID):				
D(UI 14.1 AI	N/NA Number LAND TRAN	SPORT (Euro	opean ADR/RID):				

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14.3 AIR TRANSPORT (ICAO/IATA):								
ICAO/IATA Shipping Name:								
UN Number:								
Hazard Cla	ss:		IATA Classif	ication:	3			
Additional Trai	nsport	Transport in accordance with lo	ocal, state, and feder	al 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)			
1046140-32-2	MCHB-1		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or	State Lists	·			
1046140-32-2	MCHB-1		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC)						
Statement:		No.1272/2008.						
		Section 16. Otl	ner Informatio	n				
Revision Date:		07/20/2019						
Additional Info	rmation About	No data available.						
This Product:	This Product:							
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. However express or implied, with respect use. Users should make their of their particular purposes.	ver, we make no war t to such information,	ranty of merchantabilit and we assume no lia	y or any other warranty, ability resulting from its			