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Caj	man	metabolite (CRM)	Revision: 09/19/2019					
	according to	Pregulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83	30 and US OSHA HCS 2015					
	Section 1. Ide	entification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code:       28232         Product Name:       4-fluoro MDMB-BUTINACA N-(4-hydroxybutyl) metabolite (CRM)         Synonyms:       methyl (S)-2-(1-(4-hydroxybutyl)-1H-indazole-3-carboxamido)-3,3-dimethylbutanoate; 4-fl         MDMB-BINACA N-(4-hyroxybutyl) metabolite;							
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 veterinary use.							
1.3	Details of the Supplier of the Company Name:	Safety Data Sheet: Cayman Chemical Company 1180 E. Ellsworth Rd. Ann Arbor, MI 48108						
	Web site address: Information:	www.caymanchem.com Cayman Chemical Company	+1 (734)971-3335					
1.4	Emergency telephone numb	er:						
l	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identific	ation					
2.2	Label Elements:	icity (single exposure), Category 1						
	GHS Signal Word:	Danger						
	GHS Hazard Phrases: H225: Highly flammable liqu H301: Toxic if swallowed. H311: Toxic in contact with s H331: Toxic if inhaled. H370: Causes damage to or	skin.						
	GHS Precautionary Phrases:							
	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking. P260: Do not breathe {dust/fume/gas/mist/vapors/spray}. P264: Wash {hands} thoroughly after handling. P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
	GHS Response Phrases:	<ul> <li>D: Immediately call a POISON CENTER or doctor</li> </ul>						
	P302+352: IF ON SKIN: Wa	sh with plenty of soap and water. (or hair): Remove/take off immediately all contai						
	P304+340: IF INHALED: Re	move victim to fresh air and keep at rest in a pos	ition comfortable for breathing.					



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P311: Call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P361: Remove/Take off immediately all contaminated clothing.

P307+311: IF exposed: Call a POISON CENTER or doctor/physician.

P363: Wash contaminated clothing before reuse.

#### GHS Storage and Disposal Phrases:

Please refer to Section 7 for Storage and Section 13 for Disposal information.

**2.3** Adverse Human Health Causes damage to organs {eyes}.

Effects and Symptoms:Material may be irritating to the mucous membranes and upper respiratory tract.<br/>May be fatal or cause blindness if swallowed.<br/>May cause eye, skin, or respiratory system irritation.

Toxic if inhaled, swallowed, or in contact with skin.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

## Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	4-fluoro MDMB-BUTINACA N-(4-hydroxybutyl) metabolite	0.1 %	NA NA	No data available.
67-56-1 PC1400000	Methanol 01-2119392409-28-0000	99.9 %	200-659-6 603-001-00-X	Flam. Liq. 2: H225 Acute Tox.(O) 3: H301 Acute Tox.(D) 3: H311 Acute Tox.(I) 3: H331 STOT (SE) 1: H370

## 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. Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined In Case of Eye Contact: 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. 4.2 Important Symptoms and Overexposure may cause: confusion, dermatitis, headache, drowsiness, dizziness, gastrointestinal Effects, Both Acute and disturbance, optic nerve damage (blindness), nausea, unconsciousness, vomiting, visual **Delayed:** disturbance, weakness. May cause convulsions. Once methanol is absorbed into the body, it is very slowly eliminated.



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	CHEMICAL	Inet						
		Section 5. Fire	e 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	A solid water stream may be	e inefficient.					
	Media:							
5.2	Flammable Properties and	dCan release vapors that for	m explosive mixtures at temperatures at or above	e the flashpoint.				
	Hazards:	Container explosion may oc	ccur under fire conditions.					
		Emits toxic fumes under fire	e conditions.					
		Sensitive to static discharge	9.					
		Vapors can travel to a source of ignition and flash back.						
		No data available.						
	Flash Pt:	11.00 C Method Used: C	Closed Cup					
	Explosive Limits:	LEL: 6.0% at 25.0 C	C UEL: 36.0% at 25.0 C					
	Autoignition Pt:	385.00 C						
5.3	Fire Fighting Instructions	: As in any fire, wear self-con	tained breathing apparatus pressure-demand (N	IOSH approved or				
		equivalent), and full protecti	ive gear to prevent contact with skin and eyes.					
		Note: Flammable as diluted	in methanol.					
		Section 6. Accide	ntal Release Measures					
6.1	Protective Precautions,	Avoid breathing vapors and	d provide adequate ventilation.					
			r a NIOSH approved self-contained breathing ap	paratus, or respirator,				
	Emergency Procedures:		rotection (rubber boots, safety goggles, and hea					
6.2	Environmental	Take steps to avoid release	e into the environment, if safe to do so.					
	Precautions:							
6.3	Methods and Material For Contain spill and collect, as appropriate.							
	<b>Containment and Cleaning</b> Transfer to a chemical waste container for disposal in accordance with local regulations.							
	Up:	•						
		Section 7 Ha	ndling and Storage					
	Dressutions To Do Tokon		<u> </u>					
7.1		Avoid breathing dust/fume/g Avoid prolonged or repeated						
	in Handling:		-					
Keep away from sources of ignition. Take precautionary measures against static discharge.								
7.2	Precautions To Be Taken		с с					
1.2	in Storing:	en Keep away from heat, sparks, and flame. Keep container tightly closed.						
	in otoring.		formation listed on the product insert.					
	Sect	ion 8. Exposure C	Controls/Personal Protection					
8.1	Exposure Parameters:							
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
67-56	S-1 Methanol	ACGIH TLV	TLV: 200 ppm STEL: 250 ppm					
		Europe	TWA: 260 mg/m3 (200 ppm)	Skin Absorption				
		France VL	TWA: 260 mg/m3 (200 ppm)					
			STEL: 1300 mg/m3 (1000 ppm)					
		OSHA PELs	PEL: 200 ppm					
		Britain EH40	TWA: 266 mg/m3 (200 ppm)	Skin Absorption				
			STEL: 333 mg/m3 (250 ppm)					



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8.2	Exposure Controls:								
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne							
	,	levels below recommended exposure limits.							
8.2.2	Personal protection equip	lipment:							
Eye Protection:     Safety glasses									
	Protective Gloves:Compatible chemical-resistant glovesOther Protective Clothing:Lab coatRespiratory EquipmentNIOSH approved respirator, as conditions warrant.(Specify Type):Work/Hygienic/MaintenanDo not take internally.								
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sl								
		Wash thoroughly after handling.							
		No data available.							
	Se	ection 9. Physical and Chemical Properties							
9.1	Information on Basic Phys	ical and Chemical Properties							
	Physical States:	[]Gas [X]Liquid []Solid							
	Appearance and Odor:	A 1 mg/ml solution in methanol							
	pH:	No data.							
	Melting Point:	No data.							
	Boiling Point:	No data.							
	Flash Pt:	11.00 C Method Used: Closed Cup							
	Evaporation Rate:	No data.							
	Flammability (solid, gas):	No data available.							
	Explosive Limits:	LEL: 6.0% at 25.0 C UEL: 36.0% at 25.0 C							
	Vapor Pressure (vs. Air or	mm 96 MM_HG at 20.0 C							
	Hg):								
	Vapor Density (vs. Air = 1)	: No data.							
	Specific Gravity (Water = 1	I): No data.							
	Solubility in Water:	No data.							
	Octanol/Water Partition	No data.							
	Coefficient:								
	Autoignition Pt:	385.00 C							
	Decomposition Temperatu	ure: No data.							
	Viscosity:	No data.							
9.2	Other Information								
	Percent Volatile:	No data.							
	Molecular Formula & Weig								



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				<u> </u>					
			Section 10. Stability a	nd Read	ctivit	.y			
10.1	· · ·								
10.2	Stability: Unstable [ ] Stable [ X ]								
10.3		/ Note(s):							
	Polymerization: Will occur [ ] Will not occur [ X ]								
10.4	-	ons To Avoid:	heat, flames, and sparks						
10.5									
	To Avoi	-	acid anhydrides						
			acid chlorides alkali metals oxidizing agents						
			reducing agents						
10.6	Hazardo	bus	carbon dioxide						
	Decomp	position or	carbon monoxide						
	Byprodu	ucts:							
			Section 11. Toxicologic	al Infor	mati	on			
11.1	Informa	tion on	•				udied.		
		ogical Effects:	The toxicological effects of this product have not been thoroughly studied. Methanol - Toxicity Data: Oral LD50 (rat): 5,600 mg/kg; Oral LD50 (rabbit): 14,200 mg/kg; Oral						
			LDLO (man): 6422 mg/kg; Intraperitoneal LD50 (mouse): 10765 mg/kg;						
			Inhalation LC50 (rat): 64,000 ppm (4h); Inhalation LC50 (mouse): 61,100 ppm (134 m); Skin LD50						
			(rabbit): 15,800 mg/kg; Oral LDLO (human): 143 mg/kg; Methanol - Irritation Data: Skin (rabbit): 20 mg (24h) moderate; Eyes (rabbit): 40 mg moderate;						
			Eyes (rabbit): 100 mg (24h) moderate;						
	Chronic	Toxicological	Methanol - Investigated as a drug, mutagen, primary irritant, reproductive effector, and tumorigen.						
Effects:			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete information.						
			Methanol RTECS Number: PC1400000						
Carci	nogenicity	<b>y</b> :	NTP? No IARC Monographs? No	OSHA	Regu	llated? No			
CAS	#		ponents (Chemical Name)	NTP		IARC	ACGIH	OSHA	
	NA	4-fluoro MDMB-B	UTINACA N-(4-hydroxybutyl) metabolit	e n.a.		n.a.	n.a.	n.a.	
67	'-56-1	Methanol		n.a.		n.a.	n.a.	n.a.	
			Section 12. Ecologica	l Inform	atio	n			
12.1	Toxicity	:	Avoid release into the environment.						
			Runoff from fire control or dilution wate	r may caus	e pollu	ition.			
12.2	Persiste	ence and	No data available.						
	Degrada	ability:							
12.3 Bioaccumulative No data available.									
Potential:									
12.4									
12.5	-	of PBT and vPvB							
	assessn								
12.6		dverse effects:	No data available.						
. 2.0									



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		Section 13. Dispos	sal Considera	tions					
13.1 Waste	Disposal Method:	Dispose in accordance with loc	al, state, and federal	regulations.					
Section 14. Transport Information									
14.1 LAND	TRANSPORT (US D	OT):							
DOT Proper Shipping Name: Methanol Solution									
DOT Hazard Class:       3 (6.1)       FLAMMABLE LIQUID, POISON									
UN/NA Nu	mber:	UN1230	Packing Gro	II					
		FLUMMYBEE LIQUID 3	>						
14.1 LAND	TRANSPORT (Euro	pean ADR/RID):							
ADR/RID S	Shipping Name:	Methanol Solution							
UN Numbe	er:	1230	Packing Gro	oup:	II				
Hazard Cla	Hazard Class: 3 (6.1) - FLAMMABLE LIQUID, POISON								
14.3 AIR TR	ANSPORT (ICAO/IA	ATA):							
ICAO/IATA	A Shipping Name:	Methanol Solution							
UN Number:		1230	II						
Hazard Class:		3 (6.1) - FLAMMABLE LIQUID, IATA Classification: 3, 6.1 POISON							
Additional Tra	ansport	Transport in accordance with local, state, and federal regulations.							
Information:		When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of							
E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.									
-	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.								
		Section 15. Regu	latory Informa	ation					
EPA SARA (S	uperfund Amendm	ents and Reauthorization Act	of 1986) Lists						
CAS #	Hazardous Comp	oonents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)				
NA	4-fluoro MDMB-BI metabolite	UTINACA N-(4-hydroxybutyl)	No	No	No				
67-56-1	Methanol		No	Yes 5000 LB	Yes				
CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists									
NA	NA         4-fluoro MDMB-BUTINACA N-(4-hydroxybutyl) metabolite         CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; C				No; TSCA: No; CA				
67-56-1	Methanol		,	HAP: VHAP; CWA ROP.65: Yes: RDTo	NPDES: No; TSCA: Yes - x.				
			•						



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**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: 09/19/2019 Additional Information About No data available. This Product: Company Policy 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.