

.1	Section 1.					
.1		Identification of the Substance/Mixture and of the	e Company/Undertaking			
	Product Code:	18502				
	Product Name:	Apremilast				
	Synonyms:	N-[2-[(1S)-1-(3-ethoxy-4-methoxyphenyl)-2-(me dol-4-yl]-acetamide; CC-10004;	thylsulfonyl)ethyl]-2,3-dihydro-1,3-dioxo-1H-is،			
.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 nur	nber:				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300			
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887			
	Classification of the Subs Toxic To Reproduction, Specific Target Organ To Label Elements:		ation			
	Toxic To Reproduction, Specific Target Organ T	tance or Mixture: Category 1A	ation			
	Toxic To Reproduction, Specific Target Organ T	tance or Mixture: Category 1A	ation			
	Toxic To Reproduction, Specific Target Organ To Label Elements:	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1	ation			
	Toxic To Reproduction, Specific Target Organ T Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger	ation			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger ty or the unborn child.	ation			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger by or the unborn child. organs through prolonged or repeated exposure. s:	ation			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases: P201: Obtain special instr	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger ty or the unborn child. organs through prolonged or repeated exposure. s: ructions before use.				
2.1	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertility H372: Causes damage to GHS Precaution Phrases: P201: Obtain special instr P202: Do not handle until	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger ty or the unborn child. organs through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo				
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dust	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger ty or the unborn child. organs through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}.				
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases: P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dus P264: Wash {hands} thore	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger ty or the unborn child. organs through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}.	od.			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases: P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dus P264: Wash {hands} thore	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger by or the unborn child. organs through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protectio	od.			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases: P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dus P264: Wash {hands} thoro P280: Wear {protective gla GHS Response Phrases	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger by or the unborn child. organs through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}. bughly after handling. oves/protective clothing/eye protection/face protectio	od.			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dus P264: Wash {hands} thoro P280: Wear {protective gli GHS Response Phrases P308+313: IF exposed or	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger by or the unborn child. Torgans through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}. Dughly after handling. oves/protective clothing/eye protection/face protectio	od.			
	Toxic To Reproduction, Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H360: May damage fertilit H372: Causes damage to GHS Precaution Phrases P201: Obtain special instr P202: Do not handle until P260: Do not breathe {dus P264: Wash {hands} thoro P280: Wear {protective gli GHS Response Phrases P308+313: IF exposed or	tance or Mixture: Category 1A oxicity (repeated exposure), Category 1 Danger by or the unborn child. Torgans through prolonged or repeated exposure. s: ructions before use. all safety precautions have been read and understoo st/fume/gas/mist/vapors/spray}. Dughly after handling. oves/protective clothing/eye protection/face protection concerned: Get medical attention/advice. on/advice if you feel unwell.	od.			



Page: 2 of 6

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2.3	Adverse Human Health Effects and Symptoms:		Causes damage to organs through prolonged or repeated exposure. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. May damage fertility or the unborn child. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sec	ion 3. Composition/Information on Ingredients					
	CAS # / Hazardous Com RTECS # REACH Registra		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
6081 NA	41-41-9	Apremilast		100.0 %	NA NA	Toxic Repro. 1A: H360 STOT (RE) 1: H372		
			Continu 4 Fi	rat Aid Maaau				
	Deseri		Section 4. Fi	ISt AID Measu	lies			
4.1	Measu	ption of First Aid						
		e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case	e 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	e 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:		e 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.					
Γ			Section 5. Fire	Fighting Mea	asures			
5.1	Suitab Media:	le Extinguishing	Use alcohol-resistant foam, o Use water spray to cool fire-e		, or dry chemical	spray.		
Unsuitable Extinguishing A solid water stream may be inefficient. Media:								
5.2	Flamm Hazard	•	d No data available.					
			No data available.					
	Flash I	Pt:	No data.					
	Explos	ive Limits:	LEL: No data.	UEL: No da	ta.			
	-	nition Pt:	No data.					
5.3	Fire Fig	ghting Instructions	s: As in any fire, wear self-conta equivalent), and full protectiv		-			

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SAFETY DATA SHEET Apremilast

Page: 3 of 6

			Section 6. Acc	cidental Release Me	easures		
6.1	Protective Precautions, Avoid raising and breathing dust, and provide adequate ventilation.						
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respi					atus, or respirator,	
	Emerge	ncy Procedures:	and appropriate perso	onal protection (rubber boots,	safety goggles, and heavy ru	ubber gloves).	
6.2	Environmental Take steps to avoid release into the environment, if safe to do so.						
	Precaut	ions:	\$:				
6.3	Methods and Material For Contain spill and collect, as appropriate.						
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:						
			Section 7.	Handling and Stora	age		
7.1	Precaut	ions To Be Taken	Avoid breathing dust/f	ume/gas/mist/vapours/spray.			
	in Hand	ling:	Avoid prolonged or re	peated exposure.			
7.2	Precaut	ions To Be Taken	Keep container tightly	closed.			
	in Storii	ng:	Store in accordance w	vith information listed on the pr	oduct insert.		
		Sect	tion 8. Exposu	re Controls/Persona	al Protection		
8.1	Exposur	e Parameters:					
CAS	¥	Partial Chemical	Name	Britain EH40	France VL	Europe	
6081	41-41-9	Apremilast		No data.	No data.	No data.	
CAS	ŧ	Partial Chemical	Name	OSHA TWA	ACGIH TWA	Other Limits	
6081	41-41-9	Apremilast		No data.	No data.	No data.	
8.2	Exposur	e Controls:					
8.2.1 Engineering Controls Use process enclosures, local exhaust ventilation, or other engineering controls to controls to control t			to control airborne				
	(Ventilation etc.): leve		levels below recommended exposure limits.				
8.2.2	2.2 Personal protection equip						
	Eye Protection:		Safety glasses				
	Protective Gloves:		Compatible chemical-resistant gloves				
	Other Protective Clothing Respiratory Equipment (Specify Type):						
			NIOSH approved respirator, as conditions warrant.				
			Do not tako intornally				
	Work/Hygienic/Maintenan		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.				
	ce Practices:		Wash thoroughly after handling.				
			No data available.				



Revision: 11/12/2015

	Sec	tion 9. Physical and Chemical Properties		
9.1	Information on Basic Physica			
	Physical States:	[]Gas []Liquid [X]Solid		
	Appearance and Odor:	A crystalline solid		
	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 m	m No data.		
	Hg): Vapor Density (vs. Air = 1):	No data.		
	Specific Gravity (Water = 1):			
	Solubility in Water:	No data.		
	Solubility Notes:	~0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2); ~10 mg/ml in DMSO; ~20 mg/ml in DMF;		
	Autoignition Bt	No data.		
	Autoignition Pt:	nu uala.		
9.2	Other Information			
	Percent Volatile:	No data.		
	Molecular Formula & Weight			
		Section 10. Stability and Reactivity		
0.1		o data available.		
0.2	•	nstable [] Stable [X]		
0.3	• • • •	able if stored in accordance with information listed on the product insert.		
	-	ill occur [] Will not occur [X]		
0.4		To Avoid: No data available.		
0.5	Incompatibility - Materials No	o data available.		
	To Avoid:			
10.6		o data available.		
	Decomposition or			
	Byproducts:			
		Multi-region forma		



Revision: 11/12/2015

Page: 5 of 6

			Section 11. Toxico	ological Inforn	nation			
1.1	Information							
	Toxicolo	ogical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
6081	41-41-9	Apremilast		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Informa	ation			
12.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilut	ion water may cause	pollution.			
12.2			No data available.					
Degrad		mulative	No data available.					
12.3	Potentia		no dala avallable.					
12.4	Mobility	in Soil:	No data available.					
12.5	-		No data available.					
	assessn	nent:						
12.6	Other ad	lverse effects:	No data available.					
			Section 13. Dispo	sal Considera	ations			
13.1	Waste D	isposal Method:	Dispose in accordance with loo	cal, state, and federa	l regulations.			
			Section 14. Trar	nsport Informa	ation			
14.1	LAND T	RANSPORT (US I		•				
D		r Shipping Name:						
	OT Hazar							
U	N/NA Nur	nber:						
14.1	LAND T	RANSPORT (Euro	opean ADR/RID):					
		hipping Name:	Not dangerous goods.					
-	N Numbe							
н 14.3		ss: ANSPORT (ICAO/I	ΔΤΔ).					
		Shipping Name:	Not dangerous goods.					
	ional Tra		Transport in accordance with	local, state, and fede	ral regulations.			
	mation:		·		0			
			Section 15. Regu	latory Inform	ation			
		perfund Amendm	ents and Reauthorization Act					
EPA	SARA (Su		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 31	3 (TRI)	
EPA :	•					No		
CAS	•	Apremilast		No	No	No		
CAS	# 41-41-9	Apremilast	ponents (Chemical Name)	No Other US EPA o				

Multi-region format



Page: 6 of 6

Regulatory Information Statement:	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
Section 16. Other Information				
Revision Date:	11/12/2015			
Additional Information About	No data available.			
This Product:				
	No data available. 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.			