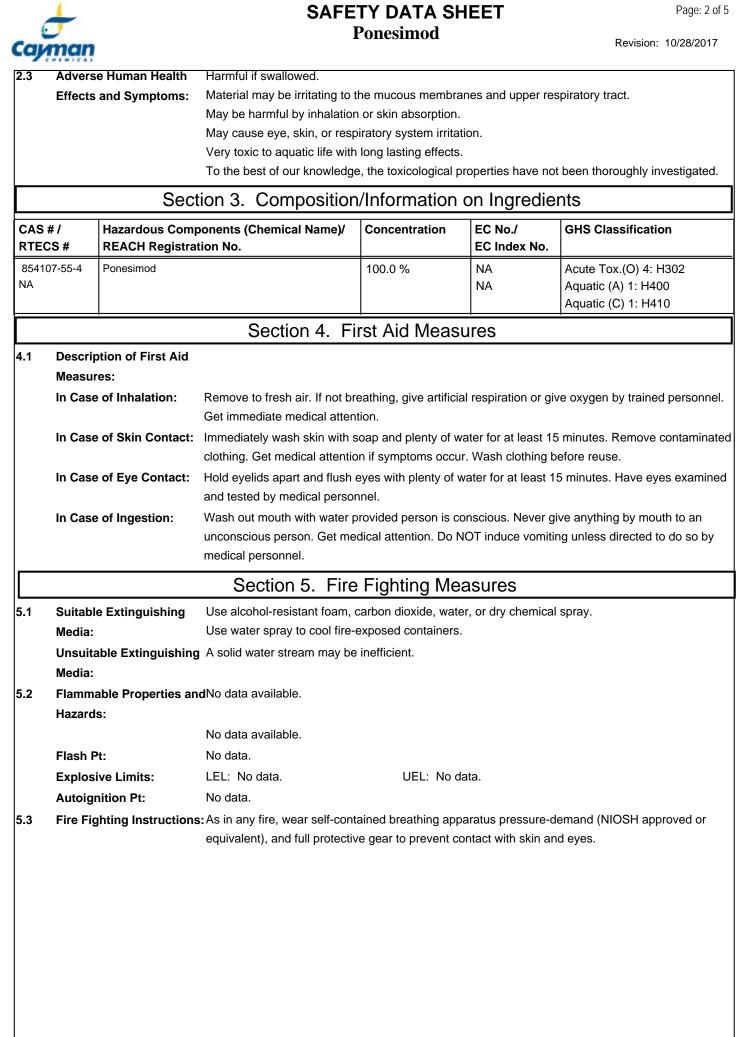


	Section 1. Ide	entification of the Substance/Mixture and of the	e Company/Undertaking		
4	Product Code:		o company, chaottaining		
.1	Product Code: Product Name:	22053 Ponesimod			
	Synonyms:	5Z-[[3-chloro-4-[(2R)-2Z,3-dihydroxypropoxy]ph	envilmethylenel-3-(2-methylphenvil)-2-(propyl		
	Cynonyms.	no)-4-thiazolidinone; ACT-128800;	enyijineuryienej-o-(z-meuryiphenyi)-z-(piopyi		
2	Relevant identified uses of the	he substance or mixture and uses advised agai	inst:		
	Relevant identified uses:	For research use only, not for human or vetering			
.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				
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300		
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887		
	Classification of the Substar Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic) Label Elements:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1			
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic)	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1			
	Acute Toxicity: Oral, Categ Aquatic Toxicity (Acute), C Aquatic Toxicity (Chronic)	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1			
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1			
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: Of HS Signal Word:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1			
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: OFAS Signal Word: GHS Hazard Phrases:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 Warning			
	Acute Toxicity: Oral, Category Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements: Official Contemporation GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed.	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 Warning			
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 Warning			
	Acute Toxicity: Oral, Category Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 Warning ife. ife. ife with long lasting effects.			
	Acute Toxicity: Oral, Category Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects.			
	Acute Toxicity: Oral, Category Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thorouge	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects.			
	Acute Toxicity: Oral, Categor Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects.	ition		
	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth.	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling.	ition		
	Acute Toxicity: Oral, Category Aquatic Toxicity (Acute), Or Aquatic Toxicity (Chronic) Label Elements:	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling.	ition		
.1	Acute Toxicity: Oral, Catego Aquatic Toxicity (Acute), O Aquatic Toxicity (Chronic) Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed. H400: Very toxic to aquatic I H410: Very toxic to aquatic I H410: Very toxic to aquatic I GHS Precaution Phrases: P264: Wash {hands} thoroug P273: Avoid release to the e GHS Response Phrases: P301+312: IF SWALLOWED P330: Rinse mouth.	Section 2. Hazards Identifica nce or Mixture: gory 4 Category 1 , Category 1 , Category 1 Warning ife. ife with long lasting effects. ghly after handling. environment.	ition		





Revision: 10/28/2017

		Section 6. Accidental Release Measures
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 respirator,
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.
	Precautions:	
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 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.
	Secti	on 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
8.2	Exposure Controls:	
8.2.1	Engineering Controls	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 equip	ment:
	Eye Protection:	Safety 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	
		Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower.
		Wash thoroughly after handling.
		No data available.
	Se	ction 9. Physical and Chemical Properties
9.1	Information on Basic Physi	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	mm No data.
	Hg):	
	Vapor Density (vs. Air = 1)	No data.
		Multi-region forma

	Specific Gravity (Water =	1): No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~0.25 mg/ml in a 1:3 soluti	ion of DMSO:PBS (	pH 7.2); ~5 m	g/ml in DMSO a	& DMF;
	<b>Octanol/Water Partition</b>	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Tempera	ture: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & We	ight: C23H25CIN2O4S 46 <sup>2</sup>	1.0			
			Land Deest	:		
		Section 10. Stability	y and Reacti	vity		
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [ ] Stable [ X ]				
10.3	Stability Note(s):	Stable if stored in accordance with		on the product	: insert.	
	Polymerization:	Will occur [ ] Will not occur [	X ]			
10.4	Conditions To Avoid:	No data available.				
10.5	Incompatibility - Material	<b>s</b> strong acids				
	To Avoid:	strong bases				
		strong oxidizing agents				
		strong reducing agents				
10.6	Hazardous	No data available.				
	Decomposition or					
	Byproducts:					
		Section 11. Toxicolo	gical Informa	ation		
11.1	Information on	The toxicological effects of this pro-	•		tudied	
11.1	Toxicological Effects:		Souce have not been	r thoroughly s	luuleu.	
	-		NTD			00114
CAS		ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA
8541	07-55-4 Ponesimod		n.a.	n.a.	n.a.	n.a.
		Section 12. Ecolog	ical Informat	ion		
12.1	Toxicity:	Avoid release into the environmen				
		Runoff from fire control or dilution	water may cause p	ollution.		
12.2	Persistence and	No data available.				
	Degradability:					
12.3	Bioaccumulative	No data available.				
12.5	Potential:	NO data available.				
40.4						
12.4	Mobility in Soil:	No data available.				
12.5	Results of PBT and vPvB	No data available.				
	assessment:					
12.6	Other adverse effects:	No data available.				



		Section 13. Dispo	sai Considerat	ions	
13.1 Waste D	Disposal Method:	Dispose in accordance with loc	al, state, and federal r	egulations.	
		Section 14. Trar	nsport Informat	ion	
14.1 LAND T	RANSPORT (US	DOT):			
DOT Prope	er Shipping Name	: Not dangerous goods.			
DOT Hazar	d Class:				
UN/NA Nur	mber:				
14.1 LAND T	RANSPORT (Eur	opean ADR/RID):			
ADR/RID S	hipping Name:	Environmentally hazardous	s substances, solid, n.	o.s. (Ponesimod)	
UN Numbe		3077	Packing Grou	ıp:	III
Hazard Cla		9 - CLASS 9			
	ANSPORT (ICAO/	-			
	Shipping Name:	Environmentally hazardou		. ,	
UN Numbe		3077	Packing Grou		
Hazard Cla		9 - CLASS 9	IATA Classifi		9
Additional Tra	nsport	Transport in accordance with l		-	ented Overstity Code of
Information:		When sold in quantities of less E1, E2, E4, or E5, this item me	-	-	
		Therefore packaging does not			
				•	
		Section 15. Regu	natory morma	lion	
EPA SARA (SI	perfund Amendn	nents and Reauthorization Act	of 1986) Lists		
	1		-	1	1
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
	1		-	<b>S. 304 RQ</b> No	<b>S. 313 (TRI)</b> No
CAS # 854107-55-4	Hazardous Com Ponesimod		S. 302 (EHS)	No	<u>_</u>
CAS # 854107-55-4	Hazardous Com Ponesimod	ponents (Chemical Name)	S. 302 (EHS)   No   Other US EPA or S	No	No
CAS # 854107-55-4 CAS # 854107-55-4	Hazardous Com     Ponesimod     Hazardous Com     Ponesimod	ponents (Chemical Name)	S. 302 (EHS)NoOther US EPA or SCAA HAP,ODC: NPROP.65: No	No State Lists b; CWA NPDES: No	No ; TSCA: No; CA
CAS # 854107-55-4 CAS # 854107-55-4 Regulatory Info	Hazardous Com     Ponesimod     Hazardous Com     Ponesimod	aponents (Chemical Name) aponents (Chemical Name)	S. 302 (EHS)NoOther US EPA or SCAA HAP,ODC: NPROP.65: No	No State Lists b; CWA NPDES: No	No ; TSCA: No; CA
CAS # 854107-55-4 CAS # 854107-55-4 Regulatory Info	Hazardous Com     Ponesimod     Hazardous Com     Ponesimod	aponents (Chemical Name) aponents (Chemical Name) This SDS was prepared in acc	S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	No State Lists b; CWA NPDES: No 1910.1200 and Regu	No ; TSCA: No; CA
CAS # 854107-55-4 CAS # 854107-55-4 Regulatory Info Statement:	Hazardous Com Ponesimod Hazardous Com Ponesimod	aponents (Chemical Name) aponents (Chemical Name) This SDS was prepared in acc No.1272/2008.	S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	No State Lists b; CWA NPDES: No 1910.1200 and Regu	No ; TSCA: No; CA
CAS # 854107-55-4 CAS # 854107-55-4 Regulatory Info Statement: Revision Date:	Hazardous Com Ponesimod Hazardous Com Ponesimod	aponents (Chemical Name) aponents (Chemical Name) This SDS was prepared in acc No.1272/2008. Section 16. Ot 10/28/2017	S. 302 (EHS) No Other US EPA or S CAA HAP,ODC: N PROP.65: No ordance with 29 CFR	No State Lists b; CWA NPDES: No 1910.1200 and Regu	No ; TSCA: No; CA
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