

		acco	ording to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	0	
		Section 1.	dentification of the Substan	ice/Mixture and of t	he Company/U	ndertaking	
1.1	Product Product Synony	Name:	23902 Alvimopan N-[(2S)-2-[[(3R,4R)-4-(3-1]-glycine; ADL 8-2698; L\		dimethyl-1-piperid	linyl]methyl]-1-oxo-3-phenylpro	
1.2	Relevant identified uses of the substance or mixture and uses advised against:						
		ant identified uses:		-	-		
1.3	Details of the Supplier of the Safety Data Sheet:						
			Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	npany			
	Web s	ite address:	www.caymanchem.com	I			
	Inform	ation:	Cayman Chemical Comp	any	+1 (734	4)971-3335	
1.4	-	ncy telephone num jency Contact:	nber: CHEMTREC Within USA CHEMTREC Outside US			0)424-9300 3)527-3887	
			Section 2. Haz	zarde Identific	ation		
2.1 2.2		cation of the Subst lements:	ance or Mixture:				
		Signal Word:	None				
	GHS F No ph GHS F No ph	ron evaluation of cu Precaution Phrases rases apply. Response Phrases: rases apply.	:	stance or mixture is r	not classifiadle ac	cording to GHS.	
2.3	Please Advers	e Human Health	or Storage and Section 13 for Material may be irritating to th	he mucous membran	nes and upper res	spiratory tract.	
2.3	Please Advers	e refer to Section 7 f	or Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membran , ingestion, or skin al iratory system irritatio	nes and upper res bsorption. on.	piratory tract. been thoroughly investigated.	
2.3	Please Advers	e refer to Section 7 fe e Human Health and Symptoms:	or Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp	he mucous membran , ingestion, or skin at iratory system irritation , the toxicological pro	nes and upper res bsorption. on. operties have not	been thoroughly investigated.	
CAS	Please Advers Effects	e refer to Section 7 fo e Human Health and Symptoms: Secti	or Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or resp To the best of our knowledge ion 3. Composition onents (Chemical Name)/	he mucous membran , ingestion, or skin at iratory system irritation , the toxicological pro	nes and upper res bsorption. on. operties have not	been thoroughly investigated.	



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	Section 4. First Aid Measures			
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			
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.			
Flammable Properties an Hazards:	dNo data available.			
	No data available.			
Flash Pt:	No data.			
Explosive Limits:	LEL: No data. UEL: No data.			
Autoignition Pt:	No data.			
Fire Fighting Instructions	s: 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. Accidental Release Measures			
Protective Precautions,	Avoid raising and breathing dust, 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).			
Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.			
Methods and Material Fo	r 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			
Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.			
in Handling:	Avoid prolonged or repeated exposure.			
Precautions To Be Taken	Keep container tightly closed.			
in Storing:	Store in accordance with information listed on the product insert.			
Sec	tion 8. Exposure Controls/Personal Protection			
Exposure Parameters:				
	Measures: In Case of Inhalation: In Case of Skin Contact: In Case of Eye Contact: In Case of Ingestion: In Case of Ingestion: In Case of Ingestion: Suitable Extinguishing Media: Unsuitable Extinguishing Media: Flash Pt: Explosive Limits: Autoignition Pt: Fire Fighting Instructions Fire Fighting Instructions Fire Fighting Instructions Protective Precautions, Protective Equipment and Emergency Procedures: Environmental Precautions: Methods and Material For Containment and Cleanin Up: Precautions To Be Taken in Handling: Precautions To Be Taken in Storing:			



8.2					
0.2	Exposure Controls:				
8.2.1	Engineering Controls	process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.):	below recommended exposure limits.			
8.2.2	Personal protection equipment:				
	Eye Protection: Sa	/ glasses atible chemical-resistant gloves			
	Protective Gloves: Co				
	Other Protective Clothing:Lab coat				
	Respiratory Equipment NI	H approved respirator, as conditions warrant.			
	(Specify Type):				
	Work/Hygienic/Maintenan Do not take internally.				
	ce Practices: Fa	acilities storing or utilizing this material should be equipped with an eyewash and a safety showe			
	W	n thoroughly after handling.			
	No	o data available.			
	Sec	tion 9. Physical and Chemical Properties			
9.1	Information on Basic Physica	al 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 m	nm No data.			
	Hg):				
	Vapor Density (vs. Air = 1):	No data.			
	Specific Gravity (Water = 1):	No data.			
	Solubility in Water:	No data.			
	Solubility Notes:	~0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2); ~20 mg/ml in DMSO; ~10 mg/ml in DMF;			
	Octanol/Water Partition Coefficient:	No data.			
	Autoignition Pt:	No data.			
	Decomposition Temperature				
	Viscosity:	No data.			
	Other Information				
19.2		No data			
9.2	Percent Volatile:	No data.			



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	[X] Dgical Information roduct have not been NTP n.a. gical Information nt.	ation n thoroughly st IARC n.a.		OSHA		
Stability Note(s): Stable if stored in accordance with Polymerization: Polymerization: Will occur [] Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: Haterials strong oxidizing agents Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides Information on The toxicological effects of this performance Toxicological Effects: Hazardous Components (Chemical Name) 3-89-3 Alvimopan Section 12. Ecolog Toxicity: Avoid release into the environme Runoff from fire control or dilutior No data available. No data available.	[X] Dgical Information roduct have not been NTP n.a. gical Information nt.	ation n thoroughly st IARC n.a.	udied.	OSHA		
Polymerization: Will occur [] Will not occur Conditions To Avoid: No data available. Incompatibility - Materials strong oxidizing agents To Avoid: Hazardous Hazardous carbon dioxide Decomposition or carbon monoxide Byproducts: nitrogen oxides Information on The toxicological effects of this performance Toxicological Effects: Hazardous Components (Chemical Name) 3-89-3 Alvimopan Section 12. Ecolog Toxicity: Avoid release into the environme Runoff from fire control or dilutior No data available.	[X] Dgical Information roduct have not been NTP n.a. gical Information nt.	ation n thoroughly st IARC n.a.	udied.	OSHA		
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Byproducts: nitrogen oxides Section 11. Toxicolo Information on The toxicological effects of this performance Toxicological Effects: Hazardous Components (Chemical Name) 3-89-3 Alvimopan Section 12. Ecolog Toxicity: Avoid release into the environme Runoff from fire control or dilution Persistence and No data available.	n.a. pical Informat	IARC	ACGIH	OSHA		
Section 11. Toxicolo Information on The toxicological effects of this performance of the sector	n.a. pical Informat	IARC	ACGIH	OSHA		
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3-89-3 Alvimopan Section 12. Ecolog Toxicity: Avoid release into the environme Runoff from fire control or dilution Persistence and No data available.	n.a. gical Informat	n.a.		OSHA		
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Section 12. Ecolog Toxicity: Avoid release into the environme Runoff from fire control or dilution Persistence and No data available.	gical Informat			n.a.		
Toxicity:Avoid release into the environme Runoff from fire control or dilutionPersistence andNo data available.	nt.	ion	•			
Runoff from fire control or dilutionPersistence andNo data available.						
Persistence and No data available.	Avoid release into the environment.					
	Runoff from fire control or dilution water may cause pollution.					
Degradability:						
Bioaccumulative No data available.						
Potential:						
Mobility in Soil: No data available.						
Results of PBT and vPvB No data available.						
assessment:						
	No data available.					
Section 13. Dispose	al Considerat	ions				
Waste Disposal Method: Dispose in accordance with local	, state, and federal r	egulations.				
Section 14. Trans	port Informat	ion				
LAND TRANSPORT (US DOT):						
T Proper Shipping Name: Not dangerous goods.						
T Hazard Class:						
/NA Number:						
LAND TRANSPORT (European ADR/RID):						
R/RID Shipping Name: Not dangerous goods.						
Number:						
zard Class:						
T Ha /NA LAN R/RI Nur	azard Class: Number: ID TRANSPORT (European ADR/RID): D Shipping Name: Not dangerous goods. nber:	azard Class: Number: ID TRANSPORT (European ADR/RID): D Shipping Name: Not dangerous goods. nber:	azard Class: Number: ID TRANSPORT (European ADR/RID): D Shipping Name: Not dangerous goods. nber:	azard Class: Number: ID TRANSPORT (European ADR/RID): D Shipping Name: Not dangerous goods. nber:		

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Cayman	

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14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not dangerous goods.

Transport in accordance with local, state, and federal regulations.

Information:

Additional Transport

Section 15. Regulatory Information

CAS # Hazardous Com		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
156053-89-3	Alvimopan		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists			
156053-89-3	Alvimopan		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.				
		Section 16. Oth	er Informatio	n		
Revision Date:		03/06/2018				
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.				