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	according to	Regulation (EC) No. 1907/2006 as a	mended by (EC) No. 2015/8	330 and US OSHA HCS	2015	
	Section 1. Ide	entification of the Substar	nce/Mixture and of	the Company/U	ndertaking	
Produc	duct Code: 27738   duct Name: Aspergillimide   nonyms: (1R,3'R,5aR,8aR,9aS)-rel-(-)-tetrahydro-1,1',8,8,11-pentamethyl-spiro[5H,6H-5a,9a-(iminome ano)-1H-cyclopent[f]indolizine-7(8H),3'-pyrrolidine]-2',5',10-trione; Asperparaline A; VM 5559					
1.2 Relevant identified uses of the substance or mixture and uses advised against:						
Relev	ant identified uses:	For research use only, no	research use only, not for human or veterinary use.			
Comj	of the Supplier of the bany Name:	Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	bany			
	site address:	www.caymanchem.com		4 (70	1) 07 1 0007	
	mation:	Cayman Chemical Comp	pany	+1 (734	4)971-3335	
-	ency telephone numb gency Contact:	er: CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887	
		Section 2. Haz	zards Identific	cation		
	ication of the Substan Elements:	nce or Mixture:				
GHS No pl GHS No pl GHS Pleas 2.3 Adver	Precaution Phrases: nrases apply. Response Phrases: nrases apply. Storage and Disposa se refer to Section 7 for se Human Health M s and Symptoms: M T	Storage and Section 13 for laterial may be irritating to the lay be harmful by inhalation lay cause eye, skin, or resp	Disposal information he mucous membrar , ingestion, or skin a iratory system irritati e, the toxicological pr	n. nes and upper res bsorption. ion. roperties have not	spiratory tract. t been thoroughly investigated.	
CAS # / RTECS #	Hazardous Compor REACH Registratio	nents (Chemical Name)/ n No.	Concentration	EC No./ EC Index No.	GHS Classification	
195966-93-9 NA	Aspergillimide		100.0 %	NA NA	No data available.	



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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 A solid water stream may be inefficient.
5.2	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.
5.3	Fire Fighting Instructions	<b>s:</b> 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
6.1	Protective Precautions, Protective Equipment an	Avoid raising and breathing dust, and provide adequate ventilation. 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	r Contain spill and collect, as appropriate.
	Containment and Cleanir	ngTransfer to a chemical waste container for disposal in accordance with local regulations.
	Up:	
		Section 7. Handling and Storage
7.1	Precautions To Be Taker	Avoid breathing dust/fume/gas/mist/vapours/spray.
	in Handling:	Avoid prolonged or repeated exposure.
7.2	Precautions To Be Taker	Keep container tightly closed.
	in Storing:	Store in accordance with information listed on the product insert.
	Sec	tion 8. Exposure Controls/Personal Protection
8.1	Exposure Parameters:	
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	REMICAL				
8.2	Exposure Controls:				
8.2.1	Engineering Controls	Jse process enclosures, local exhaust ventilation, or other engineering controls to control airborne			
	(Ventilation etc.):	evels below recommended exposure limits.			
8.2.2	Personal protection equipr	nent:			
	Eye Protection:	Safety glasses			
	Protective Gloves:	Compatible chemical-resistant gloves			
	Other Protective Clothing:	ab coat			
	Respiratory Equipment	NOSH approved respirator, as conditions warrant.			
	(Specify Type): Work/Hygienic/Maintenan Do not take internally.				
	<b>ce Practices:</b> Facilities storing or utilizing this material should be equipped with an eyewash and a safety sh Wash thoroughly after handling.				
	1	No data available.			
	Se	ction 9. Physical and Chemical Properties			
9.1	Information on Basic Physic	cal and Chemical Properties			
	Physical States:	[]Gas []Liquid [X]Solid			
	Appearance and Odor:	A 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 i	mm No data.			
	Hg):				
	Vapor Density (vs. Air = 1):				
	Specific Gravity (Water = 1)				
	Solubility in Water:	No data.			
	Solubility Notes:	Soluble in: EtOH; MeOH; DMSO;			
	Octanol/Water Partition Coefficient:	No data.			
	Autoignition Pt:	No data.			
	Decomposition Temperatur	re: No data.			
	Viscosity:	No data.			
9.2	Other Information				
	Percent Volatile:	No data.			
	Molecular Formula & Weigl	nt: C20H29N3O3 359.5			
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			Section 10. Stability a	Ind Reactiv	vity			
10.1	Reactivity: No data available.							
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	.3 Stability Note(s):		Stable if stored in accordance with inf	ormation listed o	on the product	insert.		
	Polymer	ization:	Will occur [ ] Will not occur [ X ]					
10.4	Conditions To Avoid: No data available.							
10.5	Incompa	tibility - Materials	- Materials strong oxidizing agents					
	To Avoic	1:						
10.6	Hazardous		carbon dioxide					
I	Decomp	osition or	carbon monoxide					
	Byprodu	cts:	nitrogen oxides					
			Section 11. Toxicologie	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produc	ct have not been	thoroughly st	udied.		
	Toxicolo	gical Effects:						
CAS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
1959	66-93-9	Aspergillimide		n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecologica	al Informati	ion	•	•	
12.1	Toxicity:		Avoid release into the environment.					
	· · · · · · · · · · · · · · · · · · ·		Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No data available.					
	Degradability:							
12.3	Bioaccu	-	No data available.					
	Potential:							
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	ent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal C	Considerati	ons			
13.1	Waste Di	isposal Method:	Dispose in accordance with local, stat					
			Section 14. Transpo	rt Informati	ion			
L 14.1		RANSPORT (US I	· · · · · ·		-			
		Shipping Name:						
	OT Hazard							
	N/NA Num							
14.1	LAND T	RANSPORT (Euro	ppean ADR/RID):					
A		nipping Name:	Not dangerous goods.					
	N Number							
н	lazard Clas	SS:						
н	iazard Clas	55:						
1								

<u> </u>	
Cayman	

14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: N

**me:** Not dangerous goods.

Additional Transport Information:

# Section 15. Regulatory Information

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

	Section 15. Regu		lion			
uperfund Amendn	nents and Reauthorization Act	of 1986) Lists				
Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
Aspergillimide		No	No	No		
Hazardous Components (Chemical Name)		Other US EPA or S	Other US EPA or State Lists			
Aspergillimide		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
	Section 16. Oth	ner Informatio	า			
	05/05/2019					
rmation About	No data available.					
cy 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.					
	Hazardous ComAspergillimideHazardous Com	uperfund Amendments and Reauthorization Act   Hazardous Components (Chemical Name)   Aspergillimide   Hazardous Components (Chemical Name)   Aspergillimide   Aspergillimide   ormation This SDS was prepared in accord No.1272/2008.   Section 16. Other Ot	uperfund Amendments and Reauthorization Act of 1986) Lists   Hazardous Components (Chemical Name) S. 302 (EHS)   Aspergillimide No   Hazardous Components (Chemical Name) Other US EPA or S   Aspergillimide CAA HAP,ODC: N   PROP.65: No PROP.65: No   ormation This SDS was prepared in accordance with 29 CFR r   No.1272/2008. Section 16. Other Information   of/05/2019 No data available.   or Disclaimer: DISCLAIMER: This information is believed to be accurately available to us. However, we make no warratexpress or implied, with respect to such information, and accuration of the section	Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ   Aspergillimide No No   Hazardous Components (Chemical Name) Other US EPA or State Lists   Aspergillimide CAA HAP,ODC: No; CWA NPDES: No PROP.65: No   ormation This SDS was prepared in accordance with 29 CFR 1910.1200 and Regu No.1272/2008.   Section 16. Other Information   05/05/2019   wrmation About   No data available.   cy or Disclaimer:   DISCLAIMER: This information is believed to be accurate and represents currently available to us. However, we make no warranty of merchantabilit express or implied, with respect to such information, and we assume no liar		