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	according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008						
		Section 1. Ide	ntification of the Substan	nce/Mixture and of t	he Company/Ur	ndertaking	
1.1	Product Product Synony	Name:	10786 PAD3 (human recombina Protein-arginine deiminas				
1.2	Relevan	t identified uses of th	e substance or mixture a	ind uses advised ag	gainst:		
	Releva	ant identified uses:	For research use only, no	ot for human or veteri	inary use.		
1.3		of the Supplier of the any Name:	Safety Data Sheet: Cayman Chemical Comp 1180 E. Ellsworth Rd. Ann Arbor, MI 48108	any			
		ite address:	www.caymanchem.com				
	Inform		Cayman Chemical Comp	bany	+1 (734	4)971-3335	
1.4	-	ncy telephone numbe Jency Contact:	CHEMTREC Within USA CHEMTREC Outside US		-	0)424-9300 3)527-3887	
			Section 2. Haz	zards Identific	ation		
2.1	Classifi	cation of the Substan					
2.2		ements:					
2.3	GHS Signal Word: None GHS Hazard Phrases: Based on evaluation of currently available data this substance or mixture is not classifiable according to GHS. GHS Precaution Phrases: No phrases apply. GHS Response Phrases: No phrases apply. GHS Storage and Disposal Phrases: Please refer to Section 7 for Storage and Section 13 for Disposal information. 2.3 Adverse Human Health Material may be irritating to the mucous membranes and upper respiratory tract. Effects and Symptoms: May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Section 3. Composition/Information on Ingredients						
	#/	I	ents (Chemical Name)/	Concentration EC No./		GHS Classification	
	CS #	REACH Registration			EC Index No.		
NA NA		PAD3 (human recombinant)		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 solid water stream may be inefficient.			
5.2	Flammable Properties an	dNo data available.			
	Hazards:				
		No data available.			
	Flash Pt:	No data.			
	Explosive Limits:	LEL: No data. UEL: No data.			
	Autoignition Pt:	No data.			
5.3	Fire Fighting Instructions	: 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 6.2	Protective Precautions, Protective Equipment an Emergency Procedures: Environmental	Avoid raising and breathing dust, and provide adequate ventilation. d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Take steps to avoid release into the environment, if safe to do so.			
	Precautions:				
6.3	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			
7.1	Precautions To Be Taken	Avoid breathing dust/fume/gas/mist/vapours/spray.			
	in Handling:	Avoid prolonged or repeated exposure.			
7.2	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			
8.1	Exposure Parameters:				

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	NTMTCAT					
8.2	Exposure Controls:					
8.2.1	• •	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborn levels below recommended exposure limits.				
8.2.2	,	-				
	Eye Protection: Safety glasses					
	-	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 showe				
		Wash thoroughly after handling.				
	No data available.					
		ection 9. Physical and Chemical Properties				
9.1		ical 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 mm No data.					
	Hg): Venez Density (ve. Air 1)	: No data.				
	Vapor Density (vs. Air = 1)					
	Specific Gravity (Water = 1					
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu					
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:					
	D	Section 10. Stability and Reactivity				
10.1	· · · · · · · · · · · · · · · · · · ·	No data available.				
10.2	Stability: Unstable [] Stable [X]					
10.3	2	Stable if stored in accordance with information listed on the product insert.				
	-	Will occur [] Will not occur [X]				
10.4						
10.5	Incompatibility - Materials	No data available.				
	To Avoid:					
10.6	Hazardous	No data available.				



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	Decomp Byprodi	oosition or						
	Byprout		Section 11. Toxico	logical Inform	nation			
1.1	Informa	tion on	The toxicological effects of this	-		udied.		
		ogical Effects:						
AS	#	Hazardous Com	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	NA	PAD3 (human re	combinant)	n.a.	n.a.	n.a.	n.a.	
			Section 12. Ecol	ogical Inform	ation			
2.1	Toxicity	:	Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
2.2	Persiste	ence and	No data available.					
	Degrada	ability:						
2.3	Bioaccu	Imulative	No data available.					
	Potentia	al:						
.4	Mobility	in Soil:	No data available.					
.5	Results	of PBT and vPvB	No data available.					
	assessn	nent:						
2.6	Other ad	dverse effects:	No data available.					
			Section 13. Dispo	sal Consider	ations			
3.1	Waste D	isposal Method:	Dispose in accordance with loc	cal, state, and federa	al regulations.			
			Section 14. Trar	nsport Inform	ation			
4.1	LAND T	RANSPORT (US	DOT):					
D	OT Prope	er Shipping Name	: Not dangerous goods.					
D	OT Hazar	d Class:						
U	N/NA Nur	nber:						
4.1	LAND T	RANSPORT (Eur	opean ADR/RID):					
Α	DR/RID S	hipping Name:	Not dangerous goods.					
U	N Numbe	r:						
Н	azard Cla	ISS:						
4.3	AIR TR	ANSPORT (ICAO/	IATA):					
IC	CAO/IATA	Shipping Name:	Not dangerous goods.					
	ional Tra	nsport	Transport in accordance with I	ocal, state, and fede	eral regulations.			
nfor	mation:							
			Section 15. Regu	latory Inform	ation			
PA	SARA (Sı	perfund Amendn	nents and Reauthorization Act	of 1986) Lists				
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313	3 (TRI)	
	NA	PAD3 (human re	combinant)	No	No	No		
CAS # Hazardous		Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
	NA PAD3 (human recombinant)		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No					



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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:	06/22/2017				
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.				