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		Section 1.	Identification of the Substan	ce/Mixture and of	the Company/Ur	ndertaking	
.1	Product	Code:	15295				
	Product	Name:	Vadadustat				
	Synonyr	ns:	N-[[5-(3-chlorophenyl)-3-l	hydroxy-2-pyridinyl]c	arbonyl]-glycine;	AKB-6548; PG-1016548;	
.2	Relevan	t identified uses	of the substance or mixture a	nd uses advised a	gainst:		
	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 Com			any			
	1180 E. Ellsworth Rd. App Arbor, ML 48108						
	Web site address:     Ann Arbor, MI 48108       www.caymanchem.co						
	Inform		Cayman Chemical Comp	anv	+1 (734	4)971-3335	
.4		ncy telephone nu					
	•	ency Contact:	CHEMTREC Within USA	and Canada:	+1 (80	0)424-9300	
			CHEMTREC Outside US			3)527-3887	
			Section 2. Haz	zarda Idantifia	•	,	
	<u> </u>				alion		
1 2	Label El		stance or Mixture:				
		ignal Word:	None				
	GHS Hazard Phrases:						
		on evaluation of c	urrently available data this subs	stance or mixture is	not classifiable ac	cording to GHS.	
	GHS P	on evaluation of c Precaution Phrase	-	stance or mixture is	not classifiable ac	cording to GHS.	
	<b>GHS P</b> No phr	on evaluation of c Precaution Phrase rases apply.	es:	stance or mixture is	not classifiable ac	cording to GHS.	
	GHS P No phr GHS R	on evaluation of c Precaution Phrase ases apply. Response Phrase	es:	stance or mixture is i	not classifiable ac	cording to GHS.	
	GHS F No phr GHS R No phr	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply.	es: s:	stance or mixture is i	not classifiable ac	cording to GHS.	
	GHS F No phr GHS R No phr GHS S	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo	es: s: osal Phrases:			cording to GHS.	
	GHS P No phr GHS P No phr GHS S Please	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo e refer to Section 7	es: s: osal Phrases: for Storage and Section 13 for	Disposal information	٦.	-	
2.3	GHS P No phr GHS R No phr GHS S Please Adverse	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo e refer to Section 7 e Human Health	es: s: osal Phrases: for Storage and Section 13 for Material may be irritating to th	Disposal information	n. nes and upper res	-	
2.3	GHS P No phr GHS R No phr GHS S Please Adverse	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo e refer to Section 7	es: s: osal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation	Disposal information ne mucous membrar , ingestion, or skin a	n. nes and upper res bsorption.	-	
.3	GHS P No phr GHS R No phr GHS S Please Adverse	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo e refer to Section 7 e Human Health	es: s: osal Phrases: for Storage and Section 13 for Material may be irritating to th	Disposal information ne mucous membrar , ingestion, or skin a iratory system irritati	n. nes and upper res bsorption. on.	piratory tract.	
2.3	GHS P No phr GHS R No phr GHS S Please Adverse	on evaluation of c Precaution Phrase rases apply. Response Phrase rases apply. Storage and Dispo e refer to Section 7 e Human Health and Symptoms:	es: s: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge	Disposal information ne mucous membrar , ingestion, or skin a iratory system irritati , the toxicological pr	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated	
	GHS P No phr GHS R No phr GHS S Please Adverse Effects	on evaluation of c Precaution Phrase rases apply. Storage and Dispo refer to Section 7 Human Health and Symptoms:	es: s: osal Phrases: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge tion 3. Composition	Disposal information ne mucous membrar , ingestion, or skin a iratory system irritati , the toxicological pr /Information (	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated	
CAS	GHS P No phr GHS R No phr GHS S Please Adverse Effects	on evaluation of concentration Phrase Precaution Phrase rases apply. Storage and Dispo refer to Section 7 refer to Section 7 re	es: s: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge tion 3. Composition	Disposal information ne mucous membrar , ingestion, or skin a iratory system irritati , the toxicological pr	n. hes and upper res bsorption. on. operties have not	piratory tract. been thoroughly investigated	
CAS	GHS P No phr GHS P No phr GHS S Please Adverse Effects	on evaluation of c Precaution Phrase rases apply. Storage and Dispo refer to Section 7 Human Health and Symptoms:	es: s: for Storage and Section 13 for Material may be irritating to th May be harmful by inhalation May cause eye, skin, or respi To the best of our knowledge tion 3. Composition	Disposal information ne mucous membrar , ingestion, or skin a iratory system irritati , the toxicological pr /Information (	n. hes and upper res bsorption. on. operties have not On Ingrediel EC No./	piratory tract. been thoroughly investigated	



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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:	g A solid water stream may be inefficient.				
5.2	Flammable Properties ar Hazards:	IdNo 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 Instruction	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				
6.1	Protective Precautions,	Avoid raising and breathing dust, and provide adequate ventilation.				
	Protective Equipment an	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	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:	1g transfer to a chemical waste container for disposal in accordance with local regulations.				
	ор.					
		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	n 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:					

Multi-region format



8.2	•					
8.2.1		rocess enclosures, local exhaust ventilation, or other engineering controls to control airborne				
	· ,	evels below recommended exposure limits.				
8.2.2	Personal protection equipment:					
	Eye Protection:	Safety glasses				
	Protective Gloves:	Compatible chemical-resistant gloves				
	Other Protective Clothing:Lab coat					
	Respiratory Equipment	Happroved respirator, as conditions warrant.				
	(Specify Type):					
	Work/Hygienic/Maintenan	Do not take internally.				
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower				
	I	Nash 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 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.				
	Specific Gravity (Water = 1)	): No data.				
	Solubility in Water:	No data.				
	Solubility Notes:	~0.04 mg/ml in a 1:20 solution of DMF:PBS (pH 7.2); ~2 mg/ml in EtOH & DMSO; ~5 mg/m in DMF;				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	No data.				
	Decomposition Temperatu	e: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
1	Molecular Formula & Weigl	ht: C14H11CIN2O4 306.7				

Multi-region format



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10.1			Section 10. Stability a	nd Reacti	vity			
10.1								
10.2	Stability	:	Unstable [ ] Stable [ X ]					
10.3	Stability	Note(s):	Stable if stored in accordance with inf	ormation listed	on the product	insert.		
	Polymer	ization:	Will occur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No data available.					
10.5	Incompa	tibility - Materials	No data available.					
	To Avoid	-						
10.6	Hazardous		carbon dioxide					
	Decomp	osition or	carbon monoxide					
	Byprodu		hydrogen chloride					
			nitrogen oxides					
			Section 11. Toxicologic	cal Informa	ation			
11.1	Informat	ion on	The toxicological effects of this produce			udied.		
	Toxicolo	gical Effects:			0,			
CAS		-	ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	025-07-9	Vadadustat	· · · · /	n.a.	n.a.	n.a.	n.a.	
			Section 12 Ecologies					
			Section 12. Ecologica	a moma	.1011			
12.1	Toxicity		Avoid release into the environment.					
			Runoff from fire control or dilution water may cause pollution.					
12.2	Persiste		No data available.					
	Degrada	-						
12.3	Bioaccu		No data available.					
	Potentia	l:						
12.4	Mobility	in Soil:	No data available.					
12.5	Results	of PBT and vPvB	No data available.					
	assessm	nent:						
12.6	Other ad	verse effects:	No data available.					
			Section 13. Disposal C	Considerat	ions			
13.1	Waste D	isposal Method:	Dispose in accordance with local, stat	e, and federal r	egulations.			
			Section 14. Transpo	rt Informat	ion			
		RANSPORT (US I	DOT):					
14.1	LAND							
		r Shipping Name:	Not dangerous goods.					
D			Not dangerous goods.					
	OT Prope	d Class:	Not dangerous goods.					
	OOT Prope OOT Hazar IN/NA Nun	d Class:						
C C U 14.1	OOT Prope OOT Hazard IN/NA Nun LAND T	d Class: nber:						
C C U 14.1 A	OOT Prope OOT Hazard IN/NA Nun LAND T	d Class: hber: RANSPORT (Euro hipping Name:	opean ADR/RID):					
С С U 14.1 А U	OOT Prope OOT Hazard IN/NA Nun LAND T NDR/RID SI	d Class: nber: RANSPORT (Euro hipping Name: r:	opean ADR/RID):					
С С U 14.1 А U	OOT Prope OOT Hazard JN/NA Nun LAND T NDR/RID SI	d Class: nber: RANSPORT (Euro hipping Name: r:	opean ADR/RID):					
С С U 14.1 А U	OOT Prope OOT Hazard JN/NA Nun LAND T NDR/RID SI	d Class: nber: RANSPORT (Euro hipping Name: r:	opean ADR/RID):					
С С U 14.1 А U	OOT Prope OOT Hazard JN/NA Nun LAND T NDR/RID SI	d Class: nber: RANSPORT (Euro hipping Name: r:	opean ADR/RID):					

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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)	
1000025-07-9	·		No	No	No	
CAS # Hazardous Com		ponents (Chemical Name)	Other US EPA or State Lists		+	
1000025-07-9	Vadadustat		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Information Statement:		This SDS was prepared in accord No.1272/2008.	ordance with 29 CFR	1910.1200 and Regu	lation (EC)	
		Section 16. Otl	ner Informatio	n		
Revision Date:		08/26/2019				
Additional Info	rmation 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.				