

Revision: 07/27/2019

	Section 1 In	dentification of the Substance/Mixture and of th	e Company/Undertaking				
1	Product Code:	28241					
	Product Name:	GHV (sodium salt)	amma Hudrovuvaloria Apid: 4 mothul CHP:				
	Synonyms:	4-hydroxy-pentanoic acid, monosodium salt; .g					
2		the substance or mixture and uses advised aga					
	Relevant identified uses:	For research use only, not for human or veterin	hary use.				
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	4 (70.1)074 0005				
	Information:	Cayman Chemical Company	+1 (734)971-3335				
4	Emergency telephone num						
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identifica	ation				
1	Classification of the Subst	ance or Mixture:					
	Skin Corrosion/Irritation,	Category 2					
	Serious Eye Damage/Eye						
_		oxicity (single exposure), Category 3					
.2	Label Elements:	oxicity (single exposure), Category 3					
2		oxicity (single exposure), Category 3					
2		oxicity (single exposure), Category 3					
2		oxicity (single exposure), Category 3 Warning					
2	Label Elements:						
2	Label Elements:	Warning					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases:	Warning n.					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio	Warning n. irritation.					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye	Warning n. irritation. ory irritation.					
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirato GHS Precaution Phrases	Warning n. irritation. ory irritation.					
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2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirato GHS Precaution Phrases P261: Avoid breathing {dus P264: Wash {hands} thoro	Warning n. irritation. bry irritation. st/fume/gas/mist/vapors/spray}.	on}.				
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirato GHS Precaution Phrases P261: Avoid breathing {dus P264: Wash {hands} thoro P280: Wear {protective glo	Warning n. irritation. bry irritation. : st/fume/gas/mist/vapors/spray}. ughly after handling. oves/protective clothing/eye protection/face protection	on}.				
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2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H315: Causes skin irritatio H319: Causes serious eye H335: May cause respirato GHS Precaution Phrases P261: Avoid breathing {dus P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases: P302+352: IF ON SKIN: W P304+340: IF INHALED: R	Warning n. irritation. ory irritation. :: st/fume/gas/mist/vapors/spray}. ughly after handling. oves/protective clothing/eye protection/face protection	tion comfortable for breathing.				
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2.3		se Human Health and Symptoms:	Causes serious eye irritation. Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.					
		Sec	tion 3. Composition	/Information	on Ingredie	ents		
CAS RTE	#/ CS #	Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
5627 NA	79-37-9	GHV (sodium salt)		100.0 %	NA NA	Skin Corr. 2: H315 Eye Damage 2A: H319 STOT (SE) 3: H335 H336		
		•	Section 4. Fi	rst Aid Meas	ures	•		
4.1	Descri	ption of First Aid						
	Measu In Case	res: e of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.					
	In Case	e of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse. 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	e of Eye Contact:						
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 Me	asures			
5.1	Suitab Media:	le Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.					
		able Extinguishing	g A solid water stream may be	-				
5.2	Flamm Hazard	-	ndNo data available.					
			No data available.					
	Flash I Explos	Pt: sive Limits:	No data. LEL: No data.	UEL: No d	lata			
	•	nition Pt:	No data.	011. 110 0				
5.3	Fire Fig	ghting Instruction	s: As in any fire, wear self-conta equivalent), and full protectiv		-			



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		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	Precautions To Be Taken	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 equipment:						
	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	Do not take internally.					
		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.					
	vapor Density (vs. All = 1):						
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	-	Gravity (Water =	1):	No data.					
	Solubility	y in Water:		No data.					
	Solubility	y Notes:		Soluble (slightly) in: water;					
	Octanol/	Water Partition		No data.					
	Coefficie	ent:							
	Autoigni	tion Pt:		No data.					
	Decomp	osition Temperate	ure:	No data.					
	Viscosity	/:		No data.					
9.2	Other Info								
0	Percent			No data.					
		ar Formula & Weig	aht	C5H10O3 • Na 141.1					
_	moreound		-						
			S	ection 10. Stability ar	nd Reacti	ivity			
10.1	Reactivit	y:	No dat	a available.					
10.2	Stability	:	Unstat	ole [] Stable [X]					
10.3	Stability	Note(s):	Stable	if stored in accordance with infor	mation listed	on the product	insert.		
	Polymer	ization:	Will oc	cur [] Will not occur [X]					
10.4	Conditio	ns To Avoid:	No dat	a available.					
10.5	Incompa	tibility - Materials	strona	oxidizing agents					
	To Avoid	-							
10.6	Hazardo		carbor	n dioxide					
		osition or		on monoxide					
	Byprodu		carbor	Indioxide					
	Byprodu	C13.							
			Se	ection 11. Toxicologica	al Inform	ation			
11.1	Informat	ion on	The to	xicological effects of this product	have not bee	n thoroughly st	udied.		
	Toxicolo	gical Effects:							
CAS #	¥	Hazardous Com	ponent	s (Chemical Name)	NTP	IARC	ACGIH	OSHA	
5027	56279-37-9 GHV (sodium salt)		.)		n.a.	n.a.	n.a.	n.a.	
			S	Section 12. Ecological	Informat	tion			
12.1	Toxicity:		Avoid	release into the environment.					
				off from fire control or dilution water may cause pollution.					
12.2	Persiste	nce and	No dat	a available.					
	Degrada	bility:							
12.3	Bioaccu	-	No dat	a available.					
12.5	Potentia								
10.4			No dot						
12.4	Mobility			a available.					
12.5		of PBT and vPvB	No dat	ta available.					
	assessm	ient:							
12.6	Other ad	verse effects:	No dat	ta available.					

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		Section 13. Dispos				
13.1 Waste Disposal Method: Dispose in accordance with local, state, and federal regulations.						
		Section 14. Trans	sport Informat	ion		
14.1 LAND T	RANSPORT (US	DOT):				
DOT Prope	er Shipping Name	: Not dangerous goods.				
DOT Hazar						
UN/NA Nun						
	-	opean ADR/RID):				
UN Numbe	hipping Name: r:	Not dangerous goods.				
Hazard Cla						
14.3 AIR TR/	ANSPORT (ICAO/	ΊΑΤΑ):				
ICAO/IATA	Shipping Name:	Not dangerous goods.				
Additional Trai	nsport	Transport in accordance with lo	cal, state, and federal	regulations.		
Information:						
		Section 15. Regul	atory Informat	ion		
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	of 1986) Lists			
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
56279-37-9	GHV (sodium sal	lt)	No	No	No	
CAS #	Hazardous Com	ponents (Chemical Name) Other US EPA or State Lists				
56279-37-9	GHV (sodium sal	t)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
Regulatory Info	ormation	This SDS was prepared in acco	rdance with 29 CFR 1	910.1200 and Regul	ation (EC)	
Statement:		No.1272/2008.				
		Section 16. Oth	ner Informatior	ו		
Revision Date:		07/27/2019				
Additional Info	rmation About	No data available.				
This Product:						
This Product:	y or Disclaimer:	DISCLAIMER: This information		-		
This Product:	y or Disclaimer:	currently available to us. Howev	er, we make no warra	nty of merchantability	or any other warranty,	
This Product:	y or Disclaimer:	currently available to us. Howev express or implied, with respect	er, we make no warra to such information, a	nty of merchantability and we assume no lia	y or any other warranty, bility resulting from its	
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