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	Section 1. Id	entification of the Substance/Mixture and of th	he Company/Undertaking						
1	Product Code:	28870							
••	Product Name:	Pentanoic Acid-d9							
1.2	Synonyms:	C5:0-d9; Valeric Acid-d9;							
			pinst.						
2	Relevant identified uses of the substance or mixture and uses advised against: 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 Company 1180 E. Ellsworth Rd.							
		Ann Arbor, MI 48108							
	Web site address:	www.caymanchem.com							
	Information:	Cayman Chemical Company	+1 (734)971-3335						
4	Emergency telephone numb								
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300						
	Emergency contact.	CHEMTREC Outside USA and Canada:	+1 (703)527-3887						
		Section 2. Hazards Identific							
_									
1	Classification of the Substa								
	Acute Toxicity: Oral, Cate								
	Skin Corrosion/Irritation,								
	Aquatic Toxicity (Chronic), Category 3								
	Aqualic Toxicity (Chronic,), Category 3							
.2	Label Elements:), Category 3							
2	Label Elements:								
2	Label Elements:), Category 3 Danger							
2	Label Elements:	Danger							
2	Label Elements:	Danger							
2	Label Elements:	Danger burns and eye damage.							
2	Label Elements:	Danger burns and eye damage. e with long lasting effects.							
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H314: Causes severe skin b H412: Harmful to aquatic life GHS Precautionary Phrase	Danger burns and eye damage. e with long lasting effects.							
2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowed H314: Causes severe skin b H412: Harmful to aquatic life GHS Precautionary Phrase	Danger burns and eye damage. e with long lasting effects. es: fume/gas/mist/vapors/spray}.							
2	Label Elements:	Danger burns and eye damage. e with long lasting effects. es: fume/gas/mist/vapors/spray}. ghly after handling.							
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2	Label Elements:	Danger burns and eye damage. e with long lasting effects. es: fume/gas/mist/vapors/spray}. ghly after handling. environment. es/protective clothing/eye protection/face protecti D: Call a POISON CENTER or doctor/physician if	f you feel unwell. minated clothing. Rinse skin with						
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2	Label Elements:	Danger Durns and eye damage. e with long lasting effects. es: fume/gas/mist/vapors/spray}. ghly after handling. environment. es/protective clothing/eye protection/face protecti D: Call a POISON CENTER or doctor/physician if N (or hair): Remove/take off immediately all conta	f you feel unwell. Iminated clothing. Rinse skin with sition comfortable for breathing.						
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.2	Label Elements:	Danger burns and eye damage. a with long lasting effects. es: fume/gas/mist/vapors/spray}. ghly after handling. environment. es/protective clothing/eye protection/face protection D: Call a POISON CENTER or doctor/physician if N (or hair): Remove/take off immediately all conta emove victim to fresh air and keep at rest in a pos B: Rinse cautiously with water for several minutes. DISON CENTER or doctor/physician.	f you feel unwell. Iminated clothing. Rinse skin with sition comfortable for breathing.						

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	Please	e refer to Section 7	for Storage and Section 13 for	Disposal information	ר ר					
2.3	Adverse Human Health		for Storage and Section 13 for Disposal information. Causes severe skin burns and eye damage.							
2.5		and Symptoms:	Causes severe skin burns and eye damage. Harmful if swallowed. Harmful to aquatic life with long lasting effects.							
	Lifetta	and oymptoms.								
			Material may be irritating to the mucous membranes and upper respiratory tract.							
			May be harmful by inhalation							
			May cause respiratory syster	-						
			To the best of our knowledge, the toxicological properties have not been thoroughly investigated.							
		Sec	tion 3. Composition	/Information of	on Ingredie	nts				
	CAS # / Hazardous Co RTECS # REACH Regis		ponents (Chemical Name)/	Concentration	EC No./ EC Index No.	GHS Classification				
	71-50-6	Pentanoic Acid-d		100.0.0/						
NA	1-50-6			100.0 %	693-241-1 NA	Acute Tox.(O) 4: H302 Skin Corr. 1B: H314 Aquatic (C) 3: H412				
		•	Section 4. Fi	rst Aid Measu	ires					
4.1	-	otion of First Aid								
	Measur									
	In Case	of Inhalation:			respiration or giv	ve oxygen by trained personnel.				
			Get immediate medical attention.							
	In Case	of Skin Contact:	-			minutes. Remove contaminated				
		of Eve Contract	clothing. Get medical attentio		-					
	in Case	of Eye Contact:	and tested by medical person			5 minutes. Have eyes examined				
	In Case	of Ingestion:			nscious. Never gi	ve anything by mouth to an				
		U	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 Mea	asures					
5.1	Suitabl	e Extinguishing	Use alcohol-resistant foam, c	carbon dioxide, water	, or dry chemical	spray.				
	Media:		Use water spray to cool fire-exposed containers.							
	Unsuita Media:	able Extinguishing	g A solid water stream may be	inefficient.						
5.2	Flamma	able Properties an	dNo data available.							
	Hazard	s:								
			No data available.							
	Flash P	't:	No data.							
	Explos	ive Limits:	LEL: No data.	UEL: No da	ta.					
	Autoig	nition Pt:	No data.							
5.3	Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or									
	-		-	valent), and full protective gear to prevent contact with skin and eyes.						
1										



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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		Contain spill and collect, as appropriate.						
	-	Transfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:							
		Section 7. Handling and Storage						
7.1		Avoid breathing dust/fume/gas/mist/vapours/spray.						
7.0	U	Avoid prolonged or repeated exposure.						
7.2		Keep container tightly closed. Store in accordance with information listed on the product insert.						
		·						
		on 8. Exposure Controls/Personal Protection						
8.1	Exposure Parameters:							
8.2	Exposure Controls:							
8.2.1		Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne						
	,	levels below recommended exposure limits.						
8.2.2	Personal protection equip							
	-	Safety glasses						
		Compatible chemical-resistant gloves						
	Other Protective Clothing:							
		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 shower.						
		Wash thoroughly after handling. No data available.						
		ection 9. Physical and Chemical Properties						
9.1	-	ical and Chemical Properties						
	Physical States:	[]Gas [X]Liquid []Solid						
	Appearance and Odor:	A liquid No data.						
	pH: Molting Point:	No data.						
	Melting Point: 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							
	Hg):							
	Vapor Density (vs. Air = 1)	No data.						
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	Specific	Gravity (Water =	1):	No data.						
	Solubility in Water:			No data.						
	Solubility Notes: Octanol/Water Partition			~30 mg/ml in EtOH, DMSO, & DMF;						
				No data.						
	Coefficient:									
	Autoigni	tion Pt		No data.						
	-			No data.						
	Decomposition Temperature: Viscosity:			No data.						
	-			NU Udia.						
9.2	Other Info									
	Percent V		• •	No data.						
	Molecula	r Formula & Weig	ght:	C5HD9O2	111.2					
			S	ection 10	. Stabil	ity and	React	ivity		
10.1	Reactivit	у:	No dat	a available.						
10.2	Stability:		Unstat	ole [] Sta	ble [X]					
10.3	Stability	Note(s):	Stable	if stored in acc	cordance w	ith informa	tion listed	on the product	insert.	
				cur[] Wi	ill not occu	r [X]				
10.4	-			data available.						
10.5	Incompa	tibility - Materials	strona	oxidizing agen	nts					
	To Avoid	-	5	5.01						
10.6	Hazardo		carbor	carbon dioxide						
		osition or		carbon dioxide carbon monoxide						
	Byprodu		carbor							
-	Byprodu									
			Se	ction 11.	Toxico	logical	Inform	ation		
11.1	Informati	ion on	The to	xicological effe	cts of this	product ha	ve not bee	n thoroughly st	udied.	
	Toxicolo	gical Effects:								
CAS #	¢	Hazardous Com	ponent	s (Chemical N	lame)		NTP	IARC	ACGIH	OSHA
11587	115871-50-6 Pentanoic Acid-d						n.a.	n.a.	n.a.	n.a.
				Section 12		nical Ir	forma	tion		
	Tavialtur					-	lionna			
12.1 Toxicity:			Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.							
						n water m	ay cause p	boliution.		
12.2	Persister		No dat	a available.						
	Degrada	-								
12.3	Bioaccur	nulative	No dat	No data available.						
	Potential	:								
12.4	Mobility	in Soil:	No dat	a available.						
12.5	12.5 Results of PBT and vPvB No		No dat	No data available.						
	assessm	ent:								
12.6	Other ad	verse effects:	No dat	a available.						

Multi-region format



SAFETY DATA SHEET Pentanoic Acid-d9

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		Section 13. Dispo	sal Considera	tions			
13.1 Waste D	Disposal Method:	Dispose in accordance with lo	cal, state, and federal	regulations.			
		Section 14. Trai	nsport Informa	ition			
14.1 LAND T	RANSPORT (US	DOT):					
DOT Prope	er Shipping Name	Corrosive liquid, acidic, or	ganic, n.o.s. (Valeric-	d9 acid)			
DOT Hazar	d Class:	8 CORROS	SIVE				
UN/NA Nur	nber:	UN3265 Packing Group:			III		
		CORROSIVE 8					
	RANSPORT (Eur						
	hipping Name:	Corrosive liquid, acidic, o					
UN Numbe		3265	Packing Gro	oup:	III		
Hazard Cla		8 - CORROSIVE					
	ANSPORT (ICAO/	-					
	Shipping Name:	Corrosive liquid, acidic, o		-			
UN Numbe		3265	Packing Gro	-	 		
Hazard Cla		8 - CORROSIVE	IATA Classi		8		
Additional Tra	nsport	Transport in accordance with local, state, and federal regulations. When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of					
Information:		•	-	-			
		E1, E2, E4, or E5, this item m Therefore packaging does not		-	-		
				-			
		Section 15. Regu	liatory informa	ation			
•	1	nents and Reauthorization Ac	-	1			
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
115871-50-6	Pentanoic Acid-o	1	No	No	No		
CAS #	Hazardous Con	ponents (Chemical Name)	Other US EPA or	State Lists			
115871-50-6							
Regulatory Info	ormation	This SDS was prepared in acc	ordance with 29 CFR	1910.1200 and R	egulation (EC)		
Statement:		No.1272/2008.					
		Section 16. Of	ther Informatio	n			
Revision Date:		11/02/2019					
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.					