

Revision: 07/13/2019

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	0	antification of the Collectores MM Lawrence Cult	o Common all he douted the s					
	Section 1. Ide	entification of the Substance/Mixture and of th	e Company/Undertaking					
1	Product Code:	27818						
	Product Name:	ALD-52 (solution)						
	Synonyms:	1-acetyl-9,10-didehydro-N,N-diethyl-6-methyl-e	ergoline-8.betacarboxamide; 1-Acetyl-LSD;					
		1-Acetyllysergic Acid diethylamide;						
2	Relevant identified uses of the substance or mixture and uses advised against:							
	Relevant identified uses:	For research use only, not for human or vetering	hary use.					
.3	Details of the Supplier of the	e 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 numb		4 (202) 404 2020					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300					
			+1 (703)527-3887					
		Section 2. Hazards Identifica	ation					
	Acute Toxicity: Inhalation Acute Toxicity: Oral, Cate	gory 4						
2	-	gory 4 gory 4						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye	gory 4 gory 4						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye	gory 4 gory 4						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye Label Elements:	gory 4 gory 4 Irritation, Category 2						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye Label Elements: GHS Signal Word:	gory 4 gory 4 Irritation, Category 2 Danger						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases:	gory 4 gory 4 Irritation, Category 2 Danger uid and vapor.						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu	gory 4 gory 4 Irritation, Category 2 Danger uid and vapor.						
2	Acute Toxicity: Oral, Cate Acute Toxicity: Skin, Cate Serious Eye Damage/Eye Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable liqu H302: Harmful if swallowed. H312: Harmful in contact wit H319: Causes serious eye i	gory 4 gory 4 Irritation, Category 2 Danger uid and vapor.						
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SAFETY DATA SHEET ALD-52 (solution)

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/		<u></u>							
			ES: Rinse cautiously with wate	er for several minutes	s. Remove contac	t lenses, if present and easy			
		Continue rinsing.	7						
		-	{see on this label}.						
		Rinse mouth.							
		-	n persists, get medical advice/a						
	P362-	-364: Take off conta	aminated clothing and wash it I	before reuse.					
	GHS S	Storage and Dispo	osal Phrases:						
	Please refer to Section 7		for Storage and Section 13 for	Disposal information	٦.				
2.3	Advers	e Human Health	Can cause fatal cyanide pois	oning.					
	Effects and Symptoms:		Causes serious eye irritation						
			Harmful if swallowed, inhaled	d, or absorbed throug	h the skin.				
			Material may be irritating to t	he mucous membrar	nes and upper res	piratory tract.			
			May be fatal if swallowed, inf	naled, or absorbed th	rough the skin.				
			May cause skin or respirator	y system irritation.					
			Several hours may elapse fro	-					
			To the best of our knowledge	e, the toxicological pr	operties have not	been thoroughly investigated.			
		Sec	tion 3. Composition	/Information of	on Ingredie	nts			
CAS RTE		Hazardous Com REACH Registra	ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
	0-02-8	ALD-52		0.01 %	NA	No data available.			
KE20	00000				NA				
75	-05-8	Acetonitrile		99.99 %	200-835-2	Flam. Liq. 2: H225			
AL77(00000	01-2119471307-38			608-001-00-3	Acute Tox.(O) 4: H302			
						Acute Tox.(D) 4: H312			
						Eye Damage 2: H319			
						Acute Tox.(I) 4: H332			
			Section 4. Fi	rst Aid Measu	ires				
4.1	Descrip	otion of First Aid							
	Measu	res:							
	In Case	e of Inhalation:	Remove to fresh air. If not bre	eathing, give artificial	respiration or give	e oxygen by trained personnel.			
			Get immediate medical attent	tion.					
	In Case	of Skin Contact:	Immediately wash skin with s	oap and plenty of wa	ter for at least 15	minutes. Remove contaminated			
			clothing. Get medical attentio	ion if symptoms occur. Wash clothing before reuse.					
	In Case	of Eye Contact:							
		-	and tested by medical personnel.						
	In Case	of Ingestion:			nscious. Never ai	ve anything by mouth to an			
		, et ingeeneni	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.			.g			
4.2	Import	ant Symptoms and		kia, cvanosis, depres	sion, diarrhea, dia	zziness, drowsiness, excitement			
	-	, Both Acute and		may cause: asphyxia, cyanosis, depression, diarrhea, dizziness, drowsiness, excitement, impaired judgement, lack of coordination, nausea, rash, vomiting, stupor, death.					
	Delaye	-	Treat as cyanide poisoning. A			• ·			
	Delaye	~	instructions. The onset of syn	-	-	• • •			
	Note fo	or the Doctor:	Acetonitrile is metabolized to			-			
			signs of cyanide poisoning ar	-					
			e.g.io er eyarnae poloennig al		j -				

Multi-region format



		Sec	ction 5. Fi	re Fightir	ng Meas	sures			
5.1	Suitable Extinguishing	Use alcoh	ol-resistant foar	n, carbon diox	ide, water, o	or dry chemical spray.			
	Media:	Use water	spray to cool fir	e-exposed co	ntainers.				
	Unsuitable Extinguishing	A solid wa	ter stream may	be inefficient.					
	Media:								
5.2	Flammable Properties and Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.								
	Hazards: Container explosion may occur under fire conditions.								
		Emits toxi	c fumes under fi	re conditions.					
			o static discharg						
		•	n travel to a sou	irce of ignitior	and flash b	ack.			
		No data av	/ailable.						
	Flash Pt:	2.00 C	lethod Used: C	Closed Cup					
	Explosive Limits:	LEL: 3.0	% at 25.0	C UEL	16.0%	at 25.0 C			
	Autoignition Pt:	524.00 C							
5.3	Fire Fighting Instructions	:As in any	ire, wear self-co	ontained brea	hing appara	atus pressure-demand (NIOS	H approved or		
		equivalent), and full protec	ctive gear to p	revent conta	act with skin and eyes.			
		Note: Flan	nmable as dilute	d in acetonitr	le.				
		Sectior	6. Accide	ental Rel	ease M	easures			
6.1	Protective Precautions,	Avoid bre	athing vapors ar	nd provide ad	equate vent	ilation.			
	Protective Equipment and	d As conditi	ons warrant, we	ar a NIOSH a	pproved se	lf-contained breathing appara	tus, or respirator,		
	Emergency Procedures:	and appro	priate personal	protection (ru	bber boots,	safety goggles, and heavy ru	bber gloves).		
6.2	Environmental	Take step	s to avoid releas	se into the en	vironment, i	f safe to do so.			
	Precautions:								
6.3	Methods and Material Fo	r Contain s	pill and collect, a	as appropriate).				
	Containment and Cleanir	ng Transfer t	o a chemical wa	aste container	for disposa	I in accordance with local reg	ulations.		
	Up:								
		Se	ction 7. H	andling a	nd Stor	200			
	Dressutions To Do Tokon			`		uge			
	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray. in Handling: Avoid prolonged or repeated exposure.								
	in Handling:	-	y from sources of	-					
			autionary measu	0	tatic discha	rae.			
7.2	Precautions To Be Taken	-	-	-					
	Precautions To Be Taken Keep away from heat, sparks, and flame. in Storing: Keep container tightly closed.								
	Store in accordance with information listed on the product insert.								
	Sec	tion 8	Evnosura	Controls	Person	al Protection			
8.1	Exposure Parameters:			001111013/					
CAS #	•	Ju	risdiction	Reco	mmended I	Exposure Limits	Notations		
75-05-	8 Acetonitrile	AC	GIH TLV		20 ppm				
			rope		70 mg/m3 (40) ppm)	Skin Absorption		
			nce VL		70 mg/m3 (40				
				STEL:	()				
		OS	HA PELS	PEL:	10 ppm				
		Bri	tain EH40		68 mg/m3 (40				
				STEL:	102 mg/m3 (60 ppm)			
							Multi-region forma		



8.2.1 Er (V 8.2.2 Pe Ey Pr Ot (S (S (S (S (S (S (S (S) (S) (S) (S) (S	Ventilation etc.): levels ersonal protection equipment: ye Protection: Safety rotective Gloves: Comp ther Protective Clothing:Lab or espiratory Equipment NIOSI Specify Type): Vork/Hygienic/Maintenan Do no e Practices: Facilit Wash No da Sectio formation on Basic Physical ar hysical States: ppearance and Odor: H:	y glasses batible chemical-resistant gloves oat H approved respirator, as conditions warrant. In take internally. ties storing or utilizing this material should be equipped with an eyewash and a safety shower thoroughly after handling. In the take internal should be equipped with an eyewash and a safety shower thoroughly after handling. In 9. Physical and Chemical Properties on 9. Physical and Chemical Properties [] Gas [X] Liquid [] Solid A 100 µg/ml solution in acetonitrile No data.				
(V 8.2.2 Pe Pr Ot Re (S W Ce 9.1 Inf Pr Ap Pr Ma	/entilation etc.): levels ersonal protection equipment: ye Protection: Safety rotective Gloves: Comp ther Protective Clothing:Lab co espiratory Equipment NIOSI Specify Type): /ork/Hygienic/Maintenan Do no e Practices: Facilit Wash No da Sectio formation on Basic Physical ar hysical States: ppearance and Odor: H: lelting Point:	below recommended exposure limits. y glasses batible chemical-resistant gloves boat H approved respirator, as conditions warrant. but take internally. ties storing or utilizing this material should be equipped with an eyewash and a safety showe thoroughly after handling. ata available. on 9. Physical and Chemical Properties in Ghemical Properties [] Gas [X] Liquid [] Solid A 100 µg/ml solution in acetonitrile No data.				
8.2.2 Pe Ey Pr Ot (S (S W) ce 9.1 Inf Pr Ap Pl Ma Ba	ersonal protection equipment: ye Protection: Safety rotective Gloves: Comp ther Protective Clothing:Lab co espiratory Equipment NIOSI Specify Type): Vork/Hygienic/Maintenan Do no e Practices: Facilit Wash No da Sectio formation on Basic Physical ar hysical States: ppearance and Odor: H: lelting Point:	y glasses batible chemical-resistant gloves oat H approved respirator, as conditions warrant. It take internally. ties storing or utilizing this material should be equipped with an eyewash and a safety showe thoroughly after handling. atta available. In 9. Physical and Chemical Properties In Chemical Properties []Gas [X] Liquid [] Solid A 100 µg/ml solution in acetonitrile No data.				
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9.1 Inf Pr Ot Re (S W Ce Pr Ap Pr Ap Dr Bo	rotective Gloves: Comp ther Protective Clothing:Lab co espiratory Equipment NIOSI Specify Type): /ork/Hygienic/Maintenan Do no e Practices: Facilit Wash No da Sectio formation on Basic Physical ar hysical States: ppearance and Odor: H: lelting Point:	batible chemical-resistant gloves oat H approved respirator, as conditions warrant. but take internally. but take internally. but take internally. but thoroughly after handling. but thoroughly after handling. but available. but 9. Physical and Chemical Properties but 1 Gas [X] Liquid [] Solid A 100 µg/ml solution in acetonitrile No data.				
Ot Re (S W ce 9.1 Inf Pt Ap Pt Ma Ba	ther Protective Clothing:Lab co espiratory Equipment NIOS Specify Type): /ork/Hygienic/Maintenan Do no e Practices: Facilit Wash No da Sectio formation on Basic Physical ar hysical States: ppearance and Odor: H: lelting Point:	oat H approved respirator, as conditions warrant. ot take internally. ties storing or utilizing this material should be equipped with an eyewash and a safety shower thoroughly after handling. ata available. on 9. Physical and Chemical Properties nd Chemical Properties []Gas [X] Liquid [] Solid A 100 µg/ml solution in acetonitrile No data.				
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Pł Ap Pł Ma Ba	formation on Basic Physical ar hysical States: ppearance and Odor: H: lelting Point:	nd Chemical Properties []Gas [X]Liquid []Solid A 100 μg/ml solution in acetonitrile No data.				
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Aµ pH Me Bo	ppearance and Odor: H: lelting Point:	A 100 μg/ml solution in acetonitrile No data.				
pH Me Bo	H: elting Point:	No data.				
Me	elting Point:					
Вс	-					
		No data.				
Fla	oiling Point:	No data. 2.00 C Method Used: Closed Cup No data. No data available.				
	lash Pt:					
	vaporation Rate:					
	lammability (solid, gas):					
	xplosive Limits:	LEL: 3.0% at 25.0 C UEL: 16.0% at 25.0 C				
	apor Pressure (vs. Air or mm g):	73 MM_HG at 20.0 C				
Va	apor Density (vs. Air = 1):	No data.				
Sp	pecific Gravity (Water = 1):	No data.				
Sc	olubility in Water:	No data.				
_	ctanol/Water Partition oefficient:	No data.				
Αι	utoignition Pt:	524.00 C				
	ecomposition Temperature:	No data.				
	iscosity:	No data.				
9.2 Otl	her Information					
Pe	ercent Volatile:	No data.				
M	olecular Formula & Weight:	C22H27N3O2 365.5				



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10.1			Secti	on 10. Stability and	Reactiv	/ity		
	Reactivity: No data available.							
10.2	Stability:		Unstable [] Stable [X]					
0.3	Stability N	ote(s):	Stable if stor	red in accordance with inform	ation listed o	n the product	insert.	
	Polymeriza	ation:	Will occur [] Will not occur [X]				
10.4	Conditions	To Avoid:	heat, flames	, and sparks				
10.5	Incompatil	oility - Materials	s acids					
	To Avoid:		alkali metals	;				
			bases					
			oxidizing ag	ents				
			reducing age	ents				
10.6	Hazardous		carbon dioxi	de				
	Decompos	ition or	carbon mon					
	Byproduct	s:	hydrogen cy					
			nitrogen oxid	des				
			Sectio	n 11. Toxicological	Informa	tion		
11.1	Informatio	n on	The toxicolo	gical effects of this product h	ave not been	thoroughly st	udied.	
	Toxicologi	cal Effects:	Acetonitrile -	· Toxicity Data: Oral LD50 (ra	t): 2,460 mg/	kg; Oral LD50) (mouse): 269	mg/kg; Oral
			LD50 (rabbit	:): 50 mg/kg; Oral TDLO (mar): 64 mg/kg;	Skin LD50 (ra	abbit): 980 mg/	kg; Inhalatior
			-	an): 160 ppm (4h); Inhalation			-	
				Irritation Data: Skin (rabbit)	-	Eye (rabbit):	100 µl (24 hr) r	noderate;
				xicity Data: Oral TDLO (huma				
		oxicological		Investigated as a mutagen,	-	-		-
	Effects:		-	Registry of Toxic Effects of C		stances (RTE	CS) data is pre	sented here.
			entry in RTECS for complete i RTECS Number: AL7700000	nformation.				
	Paroinogonicity:		ALD-52 RTECS Number: KE2000000 NTP? No IARC Monographs? No OSHA Regulated? No					
Carcii	nogenicity:		NTP? No					
	nogenicity:	azardous Com	NTP? No			-		
CAS	# H	azardous Com			NTP	IARC	ACGIH	OSHA
CAS 327	# H 0-02-8 A	LD-52			NTP n.a.	IARC	n.a.	n.a.
CAS 327	# H				NTP	IARC		
CAS 327	# H 0-02-8 A	LD-52	ponents (Ch		NTP n.a. n.a.	n.a. n.a.	n.a.	n.a.
CAS 327 75	# H 0-02-8 A	LD-52	ponents (Ch Secti	emical Name)	NTP n.a. n.a.	n.a. n.a.	n.a.	n.a.
CAS 327 75	# H 0-02-8 A -05-8 A	LD-52	ponents (Ch Secti Avoid releas	emical Name) ion 12. Ecological I	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1	# H 0-02-8 A -05-8 A	LD-52 cetonitrile	ponents (Ch Secti Avoid releas	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1	# H 0-02-8 A -05-8 A Toxicity:	LD-52 cetonitrile e and	ponents (Ch Secti Avoid releas Runoff from	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2	# H 0-02-8 A -05-8 A Toxicity: Persistenc	LD-52 cetonitrile e and lity:	ponents (Ch Secti Avoid releas Runoff from	emical Name) On 12. Ecological I be into the environment. fire control or dilution water r ilable.	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2	# H 0-02-8 A -05-8 A Toxicity: Persistenc Degradabi	LD-52 cetonitrile e and lity:	ponents (Ch Secti Avoid releas Runoff from No data ava	emical Name) On 12. Ecological I be into the environment. fire control or dilution water r ilable.	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2 12.3	# H 0-02-8 A -05-8 A Toxicity: Persistenc Degradabi Bioaccum	LD-52 cetonitrile e and lity: ulative	ponents (Ch Secti Avoid releas Runoff from No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2 12.3 12.4	# H 0-02-8 A -05-8 A Toxicity: Persistenc Degradabi Bioaccum Potential: Mobility in	LD-52 cetonitrile e and lity: ulative	ponents (Ch Secti Avoid releas Runoff from No data ava No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2 12.3 12.4	# H 0-02-8 A -05-8 A Toxicity: Persistenc Degradabi Bioaccum Potential: Mobility in	LD-52 cetonitrile e and lity: ulative Soil: PBT and vPvB	ponents (Ch Secti Avoid releas Runoff from No data ava No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327	# H 0-02-8 A -05-8 A Toxicity: Persistence Degradabi Bioaccume Potential: Mobility in Results of assessment	LD-52 cetonitrile e and lity: ulative Soil: PBT and vPvB	ponents (Ch Secti Avoid releas Runoff from No data ava No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2 12.3 12.4 12.5	# H 0-02-8 A -05-8 A Toxicity: Persistence Degradabi Bioaccume Potential: Mobility in Results of assessment	LD-52 cetonitrile e and lity: ulative Soil: PBT and vPvB nt:	ponents (Ch Secti Avoid releas Runoff from No data ava No data ava No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.
CAS 327 75 12.1 12.2 12.3 12.4 12.5	# H 0-02-8 A -05-8 A Toxicity: Persistence Degradabi Bioaccume Potential: Mobility in Results of assessment	LD-52 cetonitrile e and lity: ulative Soil: PBT and vPvB nt:	ponents (Ch Secti Avoid releas Runoff from No data ava No data ava No data ava	emical Name)	NTP n.a. n.a. nformati	IARC n.a. n.a.	n.a.	n.a.



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3.1 Waste		Section 13. Disp	oosal Considera	itions	
	Disposal Method:	Dispose in accordance with	local, state, and federal	regulations.	
		Section 14. Tr	ansport Informa	ation	
14.1 LAND	TRANSPORT (US	DOT):			
DOT Prop	er Shipping Name	: Acetonitrile Solution			
DOT Haza	rd Class:	3 FLAMN	ABLE LIQUID		
UN/NA Nu	mber:	UN1648	Packing Gro	oup:	II
		FLAMMABLE LIQUD			
14.1 LAND	TRANSPORT (Eur	opean ADR/RID):			
ADR/RID S	Shipping Name:	Acetonitrile Solution			
UN Numbe		1648	Packing Gro	oup:	II
Hazard Cla	ass:	3 - FLAMMABLE LIQUI	D		
14.3 AIR TR	ANSPORT (ICAO/	IATA):			
ICAO/IATA	A Shipping Name:	Acetonitrile Solution			
UN Numbe		1648	Packing Gro	-	II
Hazard Cla		3 - FLAMMABLE LIQUI			3
Additional Tra	ansport	Transport in accordance with		-	
Information:		When sold in quantities of le E1, E2, E4, or E5, this item	-	-	
		Therefore packaging does r		-	-
		Section 15. Re		-	
CAS #		nents and Reauthorization Apponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
3270-02-8	ALD-52		No	No	No
75-05-8	Acetonitrile		No	Yes 5000 LB	Yes
CAS # 3270-02-8	ALD-52	ponents (Chemical Name)	Other US EPA or State Lists CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA		
3270-02-0	ALD-52		PROP.65: No	NO, CWAINFDES.I	NO, TSCA. NO, CA
			CAA HAP,ODC:	HAP: VHAP; CWA	NPDES: No: TSCA: Ves
75-05-8	Acetonitrile		Inventory, 8A PA	IR; CA PROP.65: N	•
75-05-8 Regulatory Inf		This SDS was prepared in a		•	lo



Revision: 07/13/2019

Section 16. Other Information				
Revision Date:	07/13/2019			
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.			

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