

64-17-5

KQ6300000

Ethyl alcohol

01-2119457610-43-0000

SAFETY DATA SHEET N-Oleoyl-L-phenylalanine

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Revision: 11/09/2019 according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1 **Product Code:** 28921 **Product Name:** N-Oleoyl-L-phenylalanine Synonyms: N-[(9Z)-1-oxo-9-octadecen-1-yl]-L-phenylalanine; 18-1-Phe; C18:1-Phe; 1.2 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. 1.3 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 Emergency telephone number: 1.4 CHEMTREC Within USA and Canada: **Emergency Contact:** +1 (800)424-9300 CHEMTREC Outside USA and Canada: +1 (703)527-3887 Section 2. Hazards Identification 2.1 **Classification of the Substance or Mixture:** Flammable Liquids, Category 2 2.2 Label Elements: **GHS Signal Word:** Danger **GHS Hazard Phrases:** H225: Highly flammable liquid and vapor. **GHS Precautionary Phrases:** P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking. P280: Wear {protective gloves/protective clothing/eye protection/face protection}. **GHS Response Phrases:** P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. **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. May be harmful by inhalation, ingestion, or skin absorption. Effects and Symptoms: 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 CAS#/ Hazardous Components (Chemical Name)/ Concentration EC No./ **GHS Classification RTECS #** EC Index No. **REACH Registration No.** 136560-78-6 N-Oleoyl-L-phenylalanine 1.0 % NA No data available. NA NA

99.0 %

200-578-6

603-002-00-5

Multi-region format

Flam. Lig. 2: H225



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case of Eye Contact: case of Ingestion: ortant Symptoms and ects, Both Acute and ayed: table Extinguishing dia: suitable Extinguishing dia:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention. 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. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Section 5. Fire Fighting Measures Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. d Can release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Sensitive to static discharge. Vapors can travel to a source of ignition and flash back.
Case of Inhalation: Case of Skin Contact: Case of Eye Contact: Case of Ingestion: Cortant Symptoms and ects, Both Acute and ayed: Cable Extinguishing dia: Cable Extinguishing dia: Cable Properties an	Get immediate medical attention. 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. 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. May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Section 5. Fire Fighting Measures Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers. A solid water stream may be inefficient. dCan release vapors that form explosive mixtures at temperatures at or above the flashpoint. Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Sensitive to static discharge.
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ards:	Emits toxic fumes under fire conditions. Sensitive to static discharge.
	Sensitive to static discharge.
	-
	Vapors can travel to a source of ignition and flash back.
	No data available.
sh Pt:	14.00 C Method Used: Closed Cup
losive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C
oignition Pt:	363.00 C
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. Note: Flammable as diluted in ethanol.
	Section 6. Accidental Release Measures
	Avoid breathing vapors 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.
cautions:	
	r Contain spill and collect, as appropriate. IgTransfer to a chemical waste container for disposal in accordance with local regulations.
ti Pi C	ective Equipment and rgency Procedures: ronmental autions: nods and Material For



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		Section / Ha	andling and Storage				
7.1	Precautions To Be Taken Avoid breathing dust/fume/gas/mist/vapours/spray.						
	•	Avoid prolonged or repeate	-				
		Keep away from sources of	•				
			res against static discharge.				
7.2	Precautions To Be Taken						
		Keep container tightly close					
		Hygroscopic	n accordance with information listed on the product insert.				
	Other Precautions.	Tiygroscopic					
	Secti	on 8. Exposure C	Controls/Personal Protection				
8.1	Exposure Parameters:						
CAS #	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations			
64-17	-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm				
			STEL: 1000 ppm				
		France VL	TWA: 1900 mg/m3 (1000 ppm)				
		OSHA PELs	STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm				
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm)				
		Diffain Enito	STEL: ()				
8.2	Exposure Controls:						
8.2.1	Engineering Controls	Use process enclosures, lo	cal exhaust ventilation, or other engineering cont	trols to control airbo			
(Ventilation etc.): levels below recommended exposure limits.							
8.2.2	Personal protection equipment:						
	Eye Protection: Safety glasses						
		Compatible chemical-resistant gloves					
	Protective Gloves:	Compatible chemical-resist	ant gloves				
	Protective Gloves: Other Protective Clothing:	-	ant gloves				
	Other Protective Clothing:	-	-				
	Other Protective Clothing:	Lab coat	-				
	Other Protective Clothing: Respiratory Equipment	Lab coat NIOSH approved respirator	-				
	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing	r, as conditions warrant. this material should be equipped with an eyewas	sh and a safety sho			
	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand	r, as conditions warrant. this material should be equipped with an eyewas	sh and a safety show			
	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing	r, as conditions warrant. this material should be equipped with an eyewas	sh and a safety sho			
	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available.	r, as conditions warrant. this material should be equipped with an eyewas	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available.	r, as conditions warrant. his material should be equipped with an eyewas dling. and Chemical Properties	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available.	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Second	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Se Information on Basic Physical States:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert []Gas [X]Lic	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Sec Information on Basic Physical Physical States: Appearance and Odor: pH: Melting Point:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert []Gas [X] Lic A solution in ethand	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Second Information on Basic Physical Physical States: Appearance and Odor: pH: Melting Point: Boiling Point:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert []Gas [X] Lic A solution in ethand No data. No data. No data.	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid ol	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Sec Information on Basic Physical Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert []Gas [X]Lic A solution in ethanc No data. No data. No data. 14.00 C Method U	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices: Information on Basic Physical Physical States: Appearance and Odor: pH: Melting Point: Boiling Point: Flash Pt: Evaporation Rate:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Propert []Gas [X]Lic A solution in ethand No data. No data. No data. 14.00 C Method U No data.	r, as conditions warrant. this material should be equipped with an eyewas dling. and Chemical Properties ties quid [] Solid ol	sh and a safety sho			
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9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Proper []Gas [X]Lic A solution in ethand No data. No data. No data. 14.00 C Method L No data. No data. No data. No data.	r, as conditions warrant. This material should be equipped with an eyewas dling. and Chemical Properties ties quid []Solid Jsed: Closed Cup t 25.0 C UEL: 19.0% at 25.0 C	sh and a safety sho			
9.1	Other Protective Clothing: Respiratory Equipment (Specify Type): Work/Hygienic/Maintenan ce Practices:	Lab coat NIOSH approved respirator Do not take internally. Facilities storing or utilizing Wash thoroughly after hand No data available. Ection 9. Physical ical and Chemical Proper []Gas [X]Lic A solution in ethand No data. No data. No data. 14.00 C Method L No data. No data. No data. No data.	r, as conditions warrant. This material should be equipped with an eyewas dling. and Chemical Properties ties quid []Solid Jsed: Closed Cup t 25.0 C UEL: 19.0% at 25.0 C	sh and a safety show			
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Multi-region format



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	Solubili	Gravity (Water =	= 1): No data.					
	Octanol	ty in Water:	No data.					
	ootanoi	Water Partition	No data.					
	Coeffici	ent:						
	Autoign	ition Pt:	363.00 C					
	Decomp	osition Tempera	ature: No data.					
	Viscosit	y:	No data.					
9.2	Other Inf	ormation						
	Percent	Volatile:	No data.					
	Molecul	ar Formula & We	eight: C27H43NO3 429.6					
			Section 10. Stability	/ and Reactiv	vity			
10.1	Reactivi	ty:	No data available.					
10.2	Stability	-	Unstable [] Stable [X]					
10.3	-	Note(s):	Stable if stored in accordance with	information listed of	on the product	insert.		
	Polyme		Will occur [] Will not occur []					
10.4	Conditio	ons To Avoid:	heat, flames, and sparks	-				
10.5		atibility - Materia						
	To Avoi	-	ammonia					
			peroxides					
			strong oxidizing agents					
10.6	Hazardo							
	Decomp	osition or	carbon monoxide					
	Byprodu	ucts:						
			Section 11. Toxicolo	gical Informa	ation			
11.1	Informa	tion on	The toxicological effects of this pro	•		tudied.		
	Toxicol	ogical Effects:	Ethanol - Toxicity Data: Oral TDLO (man): 1.14 ml/kg; Oral TDLO (man): 650 mg/kg; Oral LD50					
	((rat): 7,060 mg/kg; Oral LD50 (mouse): 3,450 mg/kg; Oral LD50 (mouse): 10.5 ml/kg; Oral LD50					
			(rabbit): 6,300 mg/kg; Inhalation LC50 (rat): 20,000 ppm (10h); Inhalation TCLO (human): 1,800					
			ppm (30m); Inhalation TCLO (human): 2,500 mg/m3 (20m); Inhalation LC50 (rat): 5,900 mg/m3					
			(6h); Inhalation LCLO (mouse): 29,300 ppm (7h);					
			Ethanol - Irritation Data: Eyes (rabbit): 500 mg (24h) mild; Skin (rabbit): 20 mg (24h) moderate;					
Chronic Toxicol		-	Ethanol - Investigated as a drug, m	nutagen, natural pro	oduct, primary	irritant, reprod	uctive effector,	
	Effects:		and tumorigen. Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.					
				See actual entry in RTECS for complete information.				
			Ethanol RTECS Number: KQ6300000					
Carcinogenicity:		v:	NTP? No IARC Monographs? No OSHA Regulated? No					
CAS		1	nponents (Chemical Name)	NTP	IARC	ACGIH	OSHA	
	560-78-6	N-Oleoyl-L-pher		n.a.	n.a.	n.a.	n.a.	
1365		Ethyl alcohol		n.a.	1	A4	n.a.	
	64-17-5 Ethyl a			11.a.			11.a.	

Multi-region format



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			Section 12. Ecolo	gical Informat	ion			
12.1 Toxicity: Avoid release into the environment				ent.				
			Runoff from fire control or dilution water may cause pollution.					
12.2 Persistence and No data available.								
	Degradability:							
12.3		Imulative	No data available.					
40.4	Potentia							
12.4 Mobility in Soil: No data available. 12.5 Results of PBT and vPvB No data available.								
12.5	assessment:							
12.6								
	Section 13. Dispos			sal Considerat	ions			
13.1	Waste D	Disposal Method:	Dispose in accordance with loca					
			Section 14. Tran		•			
14.1		RANSPORT (US D						
		r Shipping Name:	•					
	OT Hazar		3 FLAMMAB	LE LIQUID				
	N/NA Nun		UN1170	Packing Grou	ıp:	II		
	FLAMMURE LIQUID							
14.1	LAND T	RANSPORT (Euro	pean ADR/RID):					
ADR/RID Shipping Name:			Ethyl Alcohol Solution					
_	UN Number:		1170	Packing Grou	ıp:	II		
	azard Cla		3 - FLAMMABLE LIQUID					
		ANSPORT (ICAO/I	-					
	ICAO/IATA Shipping Name:		Ethyl Alcohol Solution 1170	Deaking Cro				
	UN Number: Hazard Class:		3 - FLAMMABLE LIQUID	Packing Grou IATA Classifi	•	 3		
	ional Tra		Transport in accordance with lo			0		
	nation:	nsport	When sold in quantities of less		-	epted Quantity Code of		
			E1, E2, E4, or E5, this item me	-	-			
	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.							
			Section 15. Regu	latory Informa	tion			
EPA S	SARA (Sı	perfund Amendm	ents and Reauthorization Act	of 1986) Lists				
CAS	#	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
1365	60-78-6	N-Oleoyl-L-pheny	lalanine	No	No	No		
64	-17-5	Ethyl alcohol		No	No	No		
CAS	#	Hazardous Components (Chemical Name) Other US EPA or State Lists						
1365	60-78-6	N-Oleoyl-L-pheny	lalanine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No				
64	-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes -				
		I		ı				
						Multi-region format		



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	Inventory; CA PROP.65: No			
Regulatory Info Statement:				
		Section 16. Othe	r Information	
Revision Date: 11/09/2019				
Additional Information About No data available. This Product:				
This Product:	y or Disclaimer:	DISCLAIMER: This information is currently available to us. However, express or implied, with respect to	believed to be accurate and represents the best information , we make no warranty of merchantability or any other warranty, such information, and we assume no liability resulting from its investigations to determine the suitability of the information for	