

KQ6300000

SAFETY DATA SHEET Oleoyl Ethanolamide-d4

Revision: 05/02/2017 Supersedes Revision: 02/24/2015

CHEM	TCAL				Supersedes Revision: 02/24/2015			
	acco	ording to Regulation (EC) No. 190	7/2006 as amended by	(EC) No. 1272/200	8			
	Section 1.	dentification of the Substar	nce/Mixture and of the	he Company/Ur	ndertaking			
.1 Pro	oduct Code:	9000552						
Pro	oduct Name:	Oleoyl Ethanolamide-d4						
Sy	nonyms:	N-(2-hydroxyethyl-1,1,2,2	2-d4)-9Z-octadecenar	mide; OEA-d4; O	leic Acid Ethanolamide-d4;			
.2 Re	levant identified uses of	the substance or mixture a	and uses advised ag	jainst:				
R	Relevant identified uses: For research use only, not for human or veterinary use.							
.3 De	Details of the Supplier of the Safety Data Sheet:							
С	Company Name: Cayman Chemical Company							
		1180 E. Ellsworth Rd.						
		Ann Arbor, MI 48108						
v	leb site address:	www.caymanchem.com						
Ir	nformation:	Cayman Chemical Comp	bany	+1 (734	4)971-3335			
.4 Em	ergency telephone num	ıber:						
E	mergency Contact:	CHEMTREC Within USA	and Canada:	+1 (800	0)424-9300			
		CHEMTREC Outside US	A and Canada:	+1 (703	3)527-3887			
		Section 2. Ha	zards Identific	ation				
.1 Cla	ssification of the Subst	ance or Mixture:						
	lammable Liquids, Cate	aorv 2						
	pel Elements:	3						
G	iHS Signal Word:	Danger						
	HS Hazard Phrases:							
F	H225: Highly flammable liquid and vapor.							
G	GHS Precaution Phrases:							
F	P210: Keep away from {heat/sparks/open flames/hot surfaces} No smoking.							
F	P280: Wear {protective gloves/protective clothing/eye protection/face protection}.							
G	GHS Response Phrases:							
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.							
G	GHS Storage and Disposal Phrases:							
		or Storage and Section 13 for	Disposal information	1.				
2.3 Ac	Iverse Human Health	Material may be irritating to t	he mucous membran	es and upper res	piratory tract.			
Ef	fects and Symptoms:	May be harmful by inhalation	, ingestion, or skin ab	osorption.				
		May cause eye, skin, or resp	iratory system irritatio	on.				
		To the best of our knowledge	e, the toxicological pro	operties have not	been thoroughly investigated			
	Secti	on 3. Composition	/Information c	on Ingredier	nts			
CAS#/	Hazardous Comp	onents (Chemical Name)/	Concentration	EC No./	GHS Classification			
RTECS #		· · · ·		EC Index No.				
946524-36 NA	6-3 N-(2-hydroxyethyl-1',	1,2,2'-d4)-9Z-octadecenamide	0.1 %	NA NA	No data available.			
64-17-5 KO630000			99.9 %	200-578-6	Flam. Liq. 2: H225			

Multi-region format

603-002-00-5



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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.				
4.2	Important Symptoms and	d May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude				
	Effects, Both Acute and	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.				
	Delayed:					
		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	g A solid water stream may be inefficient.				
	Media:					
5.2	Flammable Properties an	ndCan release vapors that form explosive mixtures at temperatures at or above the flashpoint.				
	Hazards:	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.				
		No data available.				
	Flash Pt:	14.00 C Method Used: Closed Cup				
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
	Autoignition Pt:	363.00 C				
5.3	Fire Fighting Instructions	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. Note: Flammable as diluted in ethanol.				
		Section 6. Accidental Release Measures				
6.1	Protective Precautions,	Avoid breathing vapors 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.					
		19 Transfer to a chemical waste container for disposal in accordance with local regulations.				
	Up:					



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		Section 7. Ha	ndling and Storage					
7.1	Precautions To Be Taken	n Avoid breathing dust/fume/gas/mist/vapours/spray.						
	in Handling:	Avoid prolonged or repeated exposure.						
		Keep away from sources of ignition.						
		Take precautionary measure						
7.2	Precautions To Be Taken	Keep away from heat, spark	s, and flame.					
	in Storing:	Keep container tightly closed	d.					
	-	Store in accordance with infe	ormation listed on the product insert.					
	Other Precautions:	Hygroscopic.						
	Sect	ion 8. Exposure C	ontrols/Personal Protection					
3.1	Exposure Parameters:	<u> </u>						
CAS	# Chemical Name	Jurisdiction	Recommended Exposure Limits	Notations				
64-17	-5 Ethyl alcohol	ACGIH TLV	TLV: 1000 ppm					
	·	France VL	TWA: 1900 mg/m3 (1000 ppm)					
			STEL: 9500 mg/m3 (5000 ppm)					
		OSHA PELs	PEL: 8H TWA:1000 ppm (1900 mg/m3)					
		Britain EH40	TWA: 1920 mg/m3 (1000 ppm)					
			STEL: ()					
3.2	Exposure Controls:							
3.2.1	Engineering Controls	-	al exhaust ventilation, or other engineering cont	rols to control airborr				
	(Ventilation etc.):	levels below recommended	exposure limits.					
3.2.2								
	Eye Protection:	Safety glasses						
	Protective Gloves:	Compatible chemical-resistant gloves						
	Other Protective Clothing	Slothing:Lab coat						
	Respiratory Equipment	quipment NIOSH approved respirator, as conditions warrant.						
	(Specify Type):							
	Work/Hygienic/Maintenan	Work/Hygienic/Maintenan Do not take internally.						
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash facility and						
		shower.						
		Wash thoroughly after handl	ing.					
		No data available.						
	S	ection 9. Physical	and Chemical Properties					
9.1	Information on Basic Phys	sical and Chemical Properti	es					
	Physical States:	[]Gas [X]Liqu	uid [] Solid					
	Appearance and Odor:	A solution in ethanol						
	pH:	No data.						
	Melting Point:	No data.						
	Boiling Point:	No data.						
	Flash Pt:	14.00 C Method Us	sed: Closed Cup					
	Evaporation Rate:	No data.						
	Flammability (solid, gas):	No data available.						
	Explosive Limits:	LEL: 3.3% at	25.0 C UEL: 19.0% at 25.0 C					
	Vapor Pressure (vs. Air or	mm 43 MM_HG at 20	0.0 C					
	Hg): Vapor Density (vs. Air = 1): No data.						
	Tapor Density (VS. All = 1	.		Multi-region forn				



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	Specific	Gravity (Water	= 1):	No data.					
	Solubili	ty in Water:		No data.					
	Octanol	/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 In	formation							
	Percent	Volatile:		No data.	No data.				
	Molecul	ar Formula & We	eight:	C20H35D4NO2 329.6					
			S	Section 10. Stability a	nd Reacti	vity			
10.1	Reactiv	ity:	No da	ta available.					
10.2	Stability	/:	Unsta	ble [] Stable [X]					
10.3	Stability	v Note(s):	Stable	e if stored in accordance with info	rmation listed of	on the product	insert.		
	Polyme	rization:	Will o	ccur [] Will not occur [X]					
10.4	Conditio	ons To Avoid:	heat,	flames and sparks					
10.5	Incomp	atibility - Materia	I Is alkali	metals					
	To Avoi	d:	ammonia						
			peroxides						
			strong oxidizing agents						
10.6	Hazardo	ous	carbo	carbon monoxide					
	Decomp	osition or	carbo	carbon dioxide					
	Byprod	ucts:							
			S	ection 11. Toxicologic	al Informa	ation			
11.1	Informa	tion on	The toxicological effects of this product have not been thoroughly studied.						
	Toxicol	ogical Effects:	Ethar	nol - 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 (mo	ouse): 10.5 ml/	kg; Oral LD50	
			(rabb	(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;							
-			Ethanol - Investigated as a mutagen, reproductive effector, and tumorigen.						
	Effects:		Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here. See actual entry in RTECS for complete information.						
				loctual entry in RTECS for comple	te information.				
		1			I				
CAS			-	ts (Chemical Name)	NTP	IARC	ACGIH	OSHA	
946524-36-3		N-(2-hydroxyeth	nyl-1',1,2	,2'-d4)-9Z-octadecenamide	n.a.	n.a.	n.a.	n.a.	
64-17-5		Ethyl alcohol			n.a.	1	A4	n.a.	



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		Section 12. Ecolo	gical Informat	ion				
2.1 Toxici	ty:	Avoid release into the environme	ent.					
		Runoff from fire control or dilution	n water may cause p	ollution.				
2.2 Persis	tence and	No data available.						
Degra	dability:							
	cumulative	No data available.						
Potent								
	ty in Soil:	No data available.						
	Results of PBT and vPvB No data available. assessment:							
	adverse effects:	No data available.						
12.0 Other			al Canaidarat	iono				
13.1 Waste	Disposal Method:	Section 13. Dispos Dispose in accordance with loca						
	Disposal Metriou.			-				
		Section 14. Trans	sport informat	lion				
	TRANSPORT (US	-						
-	per Shipping Name ard Class:	Ethyl alcohol solution 3 FLAMMABL						
UN/NA N		3 FLAMMABL 1170	Packing Grou	ın.	П			
14.1 LAND	TRANSPORT (Eur							
	Shipping Name:	Ethyl alcohol solution						
UN Numb		1170	Packing Grou	ıp:	II			
Hazard C	lass:	3 - FLAMMABLE LIQUID	C C	•				
14.3 AIR T	RANSPORT (ICAO/	IATA):						
ICAO/IAT	A Shipping Name:	Ethyl alcohol solution						
UN Numb		1170	Packing Grou		II			
Hazard C		3 - FLAMMABLE LIQUID	IATA Classifi		3			
Additional Tr	ansport	Transport in accordance with loc		-				
Information:		When sold in quantities of less the E1, E2, E4, or E5, this item mee	•		•			
		Therefore packaging does not h		•	· •			
		Section 15. Regula	atory Informa	tion				
EPA SARA (S	Superfund Amendn	nents and Reauthorization Act o	of 1986) Lists					
CAS #		ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)			
946524-36-3	N-(2-hydroxyethy	ıl-1',1,2,2'-d4)-9Z-octadecenamid	No	No	No			
64-17-5	Ethyl alcohol		No	No	No			
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or S	+ State Lists				
946524-36-3 N-(2-hydroxyethyl-1',1,2,2'-d4)-9Z-octadece e					S: No; TSCA: No; CA			
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64-17-5 Ethyl a	Icohol	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
Regulatory Informatior Statement:	This SDS was prepared No.1272/2008.	d in accordance with 29 CFR 1910.1200 and Regulation (EC)
	Section 1	6. Other Information
Revision Date:	05/02/2017	
Additional Information	About No data available.	
Company Policy or Dis	currently available to us express or implied, with	brmation is believed to be accurate and represents the best information s. However, we make no warranty of merchantability or any other warranty in respect to such information, and we assume no liability resulting from its ke their own investigations to determine the suitability of the information for es.