

		pording to Degulation (EQ) No. 4007/0000	Supersedes Revision: 06/20/2016				
		cording to Regulation (EC) No. 1907/2006 as amended by					
		Identification of the Substance/Mixture and of t	ne company/ondenaking				
.1	Product Code:	19724 14-Pentadecenoic Acid					
	Product Name:		aia Aaid:				
•	Synonyms:	14-pentadecenoic acid; .omegaPentadeceno					
.2	Relevant identified uses	of the substance or mixture and uses advised ag					
		,	inary use.				
.3	Details of the Supplier of the Safety Data Sheet:						
	Company Name:	Cayman Chemical Company					
		1180 E. Ellsworth Rd.					
	Web site address:	Ann Arbor, MI 48108 www.caymanchem.com					
	Information:	Cayman Chemical Company	+1 (734)971-3335				
			+1 (754)971-5555				
1.4	Emergency telephone nu	mber: CHEMTREC Within USA and Canada:	1 (800)424 0200				
	Emergency Contact:	CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identific	cation				
2.1	Classification of the Sub	stance or Mixture:					
	Flammable Liquids, Ca	tegory 2					
2.2	Label Elements:						
	GHS Signal Word:	Danger					
	GHS Hazard Phrases:						
	H225: Highly flammable liquid and vapor.						
	GHS Precaution 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 Phrase	s:					
	P303+361+353: IF ON S water/shower.	KIN (or hair): Remove/take off immediately all conta	aminated clothing. Rinse skin with				
	GHS Storage and Disposal Phrases:						
		for Storage and Section 13 for Disposal information	۱.				
2.3	Adverse Human Health	Material may be irritating to the mucous membran					
	Effects and Symptoms:	May be harmful by inhalation, ingestion, or skin al					
		May cause eye, skin, or respiratory system irritation	on.				
		To the best of our knowledge, the toxicological pro	operties have not been thoroughly investigated				
			Multi-region for				



Multi-region format

and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth t unconscious person. Get medical attention. Do NOT induce vomiting unless directed to de medical personnel. 4.2 Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassit 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 A solid water stream may be inefficient. Media: 5.2 Flammable Properties andCan release vapors that form explosive mixtures at temperatures at or above the flashpoid 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	۱ 						
NA NA NA NA 64-17-5 Ethyl alcohol 99.0 % 200-578-6 Flam. Liq. 2: H225 Section 4. First Aid Measures All Description of First Aid Measures: In Case of Inhalation: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained predict medical attention. In Case of Skin Contact: Immediately wash skin with scap and plenty of water for at least 15 minutes. Remove con 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 a and tested by medical personnel. In Case of Ingestion: Wash out mouth with water provided person is conscious. Never give anything by mouth 1 unconscious person. Get medical attention. Do NOT induce vomiting unless directed to de medical personnel. 4.2 Important Symptoms and May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassit Effects, Both Acute and (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects. Delayed: Section 5. Fire Fighting Measures 5.1 Suitable Extinguishing Measures and confirmer explosive mixtures at temperatures at or above the flashpoi Hazards: Container explosion may occur under fire conditions. Emits toxic fumes under fire conditions. Emits toxic fumes under fire conditio							
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equivalent), and full protective gear to prevent contact with skin and eyes.	oved or						
Note: Flammable as diluted in ethanol.							



	HEMICAL			Superse	des Revision: 06/20/2016			
		Section 6.	Accidenta	I Release Measures				
6.1	Protective Precautions,	Avoid breathing	g vapors and pro	vide adequate ventilation.				
	Protective Equipment and	nd As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respi						
	Emergency Procedures:	and appropriat	e personal prote	ction (rubber boots, safety goggles, and h	eavy 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:							
		Sectio	n 7. Hand	ling and Storage				
7.1	Precautions To Be Taken	Avoid breathing	dust/fume/gas/r	nist/vapours/spray.				
	in Handling:	Avoid prolonge	d or repeated ex	posure.				
			n sources of igni					
		Take precaution	nary measures a	gainst static discharge.				
7.2	Precautions To Be Taken		-	nd flame.				
	in Storing:	Keep container						
			ance with inform	ation listed on the product insert.				
	Other Precautions:	Hygroscopic.						
	Sect	tion 8. Exp	osure Con	trols/Personal Protection				
8.1	Exposure Parameters:							
CAS		Jurisdie	tion	Recommended Exposure Limits	Notations			
64-17	7-5 Ethyl alcohol	ACGIH		TLV: 1000 ppm				
		France	VL	TWA: 1900 mg/m3 (1000 ppm) STEL: 9500 mg/m3 (5000 ppm)				
		OSHA F	PELs	PEL: 1000 ppm				
		Britain E	H40	TWA: 1920 mg/m3 (1000 ppm)				
8.2	Exposure Controls:			STEL: ()				
8.2.1	Engineering Controls	Lise process or	closures local e	exhaust ventilation, or other engineering co	ontrols to control airborne			
0.2.1	(Ventilation etc.):	-	commended exp					
8.2.2	Personal protection equi							
0.2.2	Eye Protection:	Safety glasses						
	Protective Gloves:							
	Other Protective Clothing:Lab coat Respiratory Equipment NIOSH approved respirator, as conditions warrant							
	Respiratory Equipment NIOSH approved respirator, as conditions warrant.							
	(Specify Type): Work/Hygienic/Maintenan Do not take internally							
	Work/Hygienic/Maintenan Do not take internally. ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sh							
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety sho Wash thoroughly after handling.							
	Wash thoroughly after handling. No data available.							



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9.1	S					
.1		ection 9. Physical and Chemical Properties				
	Information on Basic Physical and Chemical Properties					
	Physical States:	[]Gas [X]Liquid []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 Used: Closed Cup				
	Evaporation Rate:	No data.				
	Flammability (solid, gas):					
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19.0% at 25.0 C				
	Vapor Pressure (vs. Air or	r mm 43 MM_HG at 20.0 C				
	Hg):					
	Vapor Density (vs. Air = 1					
	Specific Gravity (Water =					
	Solubility in Water:	No data.				
	Octanol/Water Partition Coefficient:	No data.				
	Autoignition Pt:	363.00 C				
	Decomposition Temperat					
	Viscosity:	No data.				
).2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weig	ght: C15H28O2 240.4				
		Section 10. Stability and Reactivity				
0.1	Reactivity:	No data available.				
0.2	Stability:	Unstable [] Stable [X]				
0.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [] Will not occur [X]				
0.4	Conditions To Avoid:	heat, flames and sparks				
0.5	Incompatibility - Materials	s alkali metals				
	To Avoid:	ammonia				
		peroxides				
		strong oxidizing agents				
0.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:					

Multi-region format



SAFETY DATA SHEET 14-Pentadecenoic Acid

CHIMIC	17				upersedes Revis	ion: 06/20/201
		Section 11. Toxicolog	gical Informa	tion		
Toxic Chro Effec	•				kg; Oral LD50 human): 1,800 5,900 mg/m3 h) moderate;	
Carcinogeni	-	NTP? No IARC Monographs?		gulated? No	ACGIH	OSHA
17351-34-7		· · · ·	n.a.	n.a.	n.a.	n.a.
64-17-5	Ethyl alcohol		n.a.	1	A4	n.a.
0 1 -17-J					/ ``¬	n.a.
		Section 12. Ecologi		n		
12.1 Toxic	city:	Avoid release into the environment		U 4 ¹		
		Runoff from fire control or dilution	water may cause po	liution.		
	istence and	No data available.				
-	adability:					
	ccumulative	No data available.				
Poter						
	lity in Soil:	No data available.				
	Its of PBT and vPvB	No data available.				
	ssment:					
12.6 Othe	r adverse effects:	No data available.				
		Section 13. Disposa	l Considerati	ons		
13.1 Wast	e Disposal Method:	Dispose in accordance with local, s	state, and federal re	gulations.		
		Section 14. Transp	ort Informati	on		
14.1 LAN	D TRANSPORT (US	DOT):				
DOT Pro	oper Shipping Name	Ethyl Alcohol Solution				
DOT Ha	zard Class:	3 FLAMMABLE	LIQUID			
UN/NA I	Number:	1170	Packing Group):	Ш	
	D TRANSPORT (Eur D Shipping Name:	ropean ADR/RID): Ethyl Alcohol Solution	Packing Groun	,	11	
		-	Packing Group):	II	
Hazard	Class:	3 - FLAMMABLE LIQUID				
					_	
					N	Iulti-region for



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14.3 AIR TRANSPORT (ICAO/	IATA):							
ICAO/IATA Shipping Name:	Ethyl Alcohol Solution							
UN Number:	1170	Packing Grou	p:	II				
Hazard Class:	Hazard Class:3 - FLAMMABLE LIQUIDIATA Classification:3							
Additional Transport	Additional Transport Transport in accordance with local, state, and federal regulations.							
Information:	Information: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of							
E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.								
Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.								
	Section 15. Regula	atory Informat	ion					
EPA SARA (Superfund Amendn	nents and Reauthorization Act o	of 1986) Lists						
CAS# Hererdeus Com	CAS # Upperdaus Components (Chemical Name) S 202 (EUS) S 204 DO S 242 (TDI)							

CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
17351-34-7	14-Pentadeceno	ic acid	No	No	No
64-17-5 Ethyl alcohol			No	No	No
CAS # Hazardous Comp		ponents (Chemical Name) Other US EPA or State Lists		•	
17351-34-7	14-Pentadecenoic acid		CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No		
64-17-5 Ethyl alcohol Regulatory Information Statement:			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes Inventory; CA PROP.65: No		; TSCA: Yes -
		This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
		Section 16. Oth	ner Information	n	
Revision Date	:	01/06/2017			
Additional Information About This Product:		No data available.			
Company Policy or Disclaimer:		DISCLAIMER: This information currently available to us. Howev express or implied, with respect use. Users should make their o	er, we make no warra to such information,	anty of merchantabilit and we assume no lia	y or any other warranty ability resulting from its

their particular purposes.