

Page: 1 of 6

Revision:	03/25/2017

	Saction 1 I	dentification of the Substance/Mixture and of th	e Company/Lindortaking						
			le company/ondenaking						
1	Product Code:	9001867							
	Product Name:	Myristic Acid methyl ester	- to Mathed Tatas de seu actor NOO 5000						
	Synonyms:	tetradecanoic acid, methyl ester; Methyl Myrist	ate; Metnyi Tetradecanoate; NSC 5029						
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 Safety Data Sheet:								
	Company Name:	Cayman Chemical Company							
		1180 E. Ellsworth Rd.							
	Web site address:	Ann Arbor, MI 48108							
	Information:	www.caymanchem.com Cayman Chemical Company	1 (724)071 2225						
			+1 (734)971-3335						
.4	Emergency telephone num		1 (800) 404 0000						
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887						
		CHEIMI REC OUISIDE USA and Canada.							
	Classification of the Subst Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements:	egory 2							
	Flammable Liquids, Cate Skin Corrosion/Irritation	ance or Mixture: egory 2							
	Flammable Liquids, Cate Skin Corrosion/Irritation	ance or Mixture: egory 2							
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements:	tance or Mixture: egory 2 , Category 2							
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements:	tance or Mixture: egory 2 , Category 2 Danger							
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases:	tance or Mixture: egory 2 , Category 2 Danger quid and vapor.							
.1	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable light	tance or Mixture: egory 2 , Category 2 Danger quid and vapor.							
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lid H315: Causes skin irritation GHS Precaution Phrases	tance or Mixture: egory 2 , Category 2 Danger quid and vapor.	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lid H315: Causes skin irritation GHS Precaution Phrases	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {here P264: Wash {hands} thory	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {here P264: Wash {hands} thory	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. oves/protective clothing/eye protection/face protection	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {he P264: Wash {hands} thoro P280: Wear {protective glob	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. oves/protective clothing/eye protection/face protection	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {he P264: Wash {hands} thoro P280: Wear {protective glob GHS Response Phrases P302+352: IF ON SKIN: W	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. bughly after handling.	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable life H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {he P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P303+361+353: IF ON SK	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water.	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lid H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {he P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P303+361+353: IF ON SK water/shower. P332+313: If skin irritation	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. KIN (or hair): Remove/take off immediately all contar	ation						
	Flammable Liquids, Cate Skin Corrosion/Irritation Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lid H315: Causes skin irritation GHS Precaution Phrases P210: Keep away from {he P264: Wash {hands} thoro P280: Wear {protective glo GHS Response Phrases P302+352: IF ON SKIN: W P303+361+353: IF ON SK water/shower. P332+313: If skin irritation	tance or Mixture: egory 2 , Category 2 Danger quid and vapor. on. s: eat/sparks/open flames/hot surfaces} No smoking bughly after handling. oves/protective clothing/eye protection/face protection : Vash with plenty of soap and water. (IN (or hair): Remove/take off immediately all contar occurs, get medical advice/attention. ted clothing and wash before re-use.	ation						



		Human Health and Symptoms:	Causes skin irritation. Material may be irritating to the mucous membranes and upper respiratory tract.						
			May be harmful by inhalation, ingestion, or skin absorption.						
			May cause eye or respiratory system irritation.						
			To the best of our knowledge	e, the toxicological p	properties have no	t been thoroughly investigated.			
		Sec	tion 3. Composition	n/Information	on Ingredie	nts			
	CAS # / Hazardous Comp RTECS # REACH Registrat		oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification			
124 NA	124-10-7Tetradecanoic acid,NA64-17-564-17-5Ethyl alcoholKQ6300000Ethyl alcohol		Methyl ester	25.0 %	204-680-1 NA	Skin Corr. 2: H315			
				75.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225			
			Section 4. Fi	rst Aid Meas	ures				
4.1	Descript	tion of First Aid							
	Measure	es:							
	In Case	of Inhalation:	Remove to fresh air. If not br Get immediate medical atten	0.0	al respiration or given or giv	ve oxygen by trained personnel.			
	In Case	of Skin Contact:			vater for at least 15	5 minutes. Remove contaminate			
			clothing. Get medical attention						
	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 person						
	In Case	of Ingestion:		nouth with water provided person is conscious. Never give anything by mouth to an					
unconscious person. Get medical attention. Do NOT induce vomiting unless directed medical personnel.									
4.2	Importa	nt Symptoms and	May cause anemia, cough, C	CNS depression, dro	owsiness, headach	e, heart damage, lassitude			
	Effects,	Both Acute and	(weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.						
	Delayed	:							
	-								
	-		Section 5. Fire	Fighting Me	asures				
5 .1	Suitable	Extinguishing	Section 5. Fire			spray.			
5.1	Suitable Media:			carbon dioxide, wat	er, or dry chemical	spray.			
5.1	Media: Unsuital	Extinguishing	Use alcohol-resistant foam,	carbon dioxide, wate exposed containers	er, or dry chemical	spray.			
	Media: Unsuital Media:	Extinguishing ble Extinguishing	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be	carbon dioxide, wate exposed containers e inefficient.	er, or dry chemical				
	Media: Unsuital Media: Flamma	Extinguishing ble Extinguishing ble Properties ar	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form	carbon dioxide, wat exposed containers inefficient. n explosive mixtures	er, or dry chemical s at temperatures a				
	Media: Unsuital Media:	Extinguishing ble Extinguishing ble Properties ar	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be	carbon dioxide, wate exposed containers e inefficient. n explosive mixtures cur under fire condit	er, or dry chemical s at temperatures a				
	Media: Unsuital Media: Flamma	Extinguishing ble Extinguishing ble Properties ar	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may oc	carbon dioxide, wat exposed containers inefficient. n explosive mixtures cur under fire condit conditions.	er, or dry chemical s at temperatures a				
	Media: Unsuital Media: Flamma	Extinguishing ble Extinguishing ble Properties ar	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may oc Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc	carbon dioxide, wat exposed containers e inefficient. n explosive mixtures cur under fire condit conditions.	er, or dry chemical s at temperatures a ions.				
	Media: Unsuital Media: Flamma Hazards	Extinguishing ble Extinguishing ble Properties ar :	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc No data available.	carbon dioxide, wat exposed containers e inefficient. n explosive mixtures cur under fire condit conditions. e of ignition and flas	er, or dry chemical s at temperatures a ions.				
	Media: Unsuital Media: Flamma Hazards Flash Pt	Extinguishing ble Extinguishing ble Properties ar	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may oc Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc No data available. 14.00 C Method Used: C	carbon dioxide, wat exposed containers inefficient. n explosive mixtures cur under fire condit conditions. e of ignition and flas	er, or dry chemical s at temperatures a ions. sh back.				
	Media: Unsuital Media: Flamma Hazards Flash Pt Explosiv	Extinguishing ble Extinguishing ble Properties ar : : ve Limits:	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc No data available. 14.00 C Method Used: C LEL: 3.3% at 25.0 C	carbon dioxide, wat exposed containers inefficient. n explosive mixtures cur under fire condit conditions. e of ignition and flas	er, or dry chemical s at temperatures a ions. sh back.				
5.2	Media: Unsuital Media: Flamma Hazards Flash Pt Explosiv Autoign	Extinguishing ble Extinguishing ble Properties ar : : : ve Limits: ition Pt:	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc No data available. 14.00 C Method Used: C LEL: 3.3% at 25.0 C 363.00 C	carbon dioxide, wat exposed containers e inefficient. n explosive mixtures cur under fire condit conditions. e of ignition and flas losed Cup : UEL: 19.0%	er, or dry chemical s at temperatures a ions. sh back. 6 at 25.0 C	at or above the flashpoint.			
5.1	Media: Unsuital Media: Flamma Hazards Flash Pt Explosiv Autoign	Extinguishing ble Extinguishing ble Properties ar : : : ve Limits: ition Pt:	Use alcohol-resistant foam, Use water spray to cool fire- A solid water stream may be dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge Vapors can travel to a sourc No data available. 14.00 C Method Used: C LEL: 3.3% at 25.0 C	carbon dioxide, wat exposed containers e inefficient. n explosive mixtures cur under fire condit conditions. e of ignition and flas losed Cup : UEL: 19.0%	er, or dry chemical s at temperatures a ions. sh back. 6 at 25.0 C paratus pressure-d	at or above the flashpoint.			



Revision: 03/25/2017

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		Secti	on 6. Accidenta	Release Measures					
6.1	Protective Precautions,	Avoid	breathing vapors and prov	vide adequate ventilation.					
Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, of									
	Emergency Procedures:								
6.2	Environmental	Take steps to avoid release into the environment, if safe to do so.							
0.2	Precautions:								
6.3									
0.5									
	Containment and Cleaning Transfer to a chemical waste container for disposal in accordance with local regulations.								
	Up:								
		S	Section 7. Handl	ing and Storage					
7.1	Precautions To Be Taken								
	in Handling:	-	prolonged or repeated exp						
		-	way from sources of igniti						
		Take p	recautionary measures ag	gainst static discharge.					
7.2	Precautions To Be Taken	-		nd flame.					
	in Storing:	-	container tightly closed.						
		Store in	n accordance with informa	ation listed on the product insert.					
	Other Precautions:	Hygros	scopic.						
	Sect	tion 8	. Exposure Cont	trols/Personal Protection					
8.1	Exposure Parameters:								
CAS	# Chemical Name		Jurisdiction	Recommended Exposure Limits	Notations				
64-17	7-5 Ethyl alcohol		ACGIH TLV	TLV: 1000 ppm					
			France VL	TWA: 1900 mg/m3 (1000 ppm)					
		-		STEL: 9500 mg/m3 (5000 ppm)					
		H	OSHA PELs	PEL: 1000 ppm					
			Britain EH40	TWA: 1920 mg/m3 (1000 ppm) STEL: ()					
8.2	Exposure Controls:								
8.2.1	Engineering Controls	Use pro	ocess enclosures, local e>	chaust ventilation, or other engineering controls to	control airborne				
	(Ventilation etc.):								
8.2.2	Personal protection equip	oment:							
	Eye Protection:		glasses						
	Protective Gloves:	-	-	oves					
	Other Protective Clothing:Lab coat								
	Respiratory Equipment NIOSH approved respirator, as conditions warrant. (Specify Type):								
	Work/Hygienic/Maintenan	Do not	take internally.						
	ce Practices: Facilities storing or utilizing this material should be equipped with an eyewash and a safety show								
		Wash t	horoughly after handling.						
		No data	a available.						
		No data available.							
1									

Multi-region format



Multi-region format

Revision: 03/25/2017

9.1		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):	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 C				
	Hg):					
	Vapor Density (vs. Air = 1):	No data.				
	Specific Gravity (Water = 1): No data.				
	Solubility in Water:	No data.				
	Octanol/Water Partition	No data.				
	Coefficient:					
	Autoignition Pt:	363.00 C				
	Decomposition Temperatu	re: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & Weig	ht: C15H30O2 242.4				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	-	Unstable [] Stable [X]				
10.3	-	Stable if stored in accordance with information listed on the product insert.				
		Will occur [] Will not occur [X]				
10.4	-	heat, flames and sparks				
	Incompatibility - Materials	· · · · · · · · · · · · · · · · · · ·				
10 5	moompationity materiale					
10.5	To Avoid:	ammonia				
10.5		ammonia peroxides				
10.5	I	peroxides				
	l	peroxides strong oxidizing agents				
10.5 10.6	Hazardous d	peroxides				



SAFETY DATA SHEET Myristic Acid methyl ester

Revision: 03/25/2017

				n 11. Toxicolo	•				
l1.1 Carcii		ogical Effects: Toxicological	Ethanol - To (rat): 7,060 r (rabbit): 6,30 ppm (30m); (6h); Inhalati Ethanol - Irri Ethanol - Inv Only select F See actual e	gical effects of this pr xicity Data: Oral TDL ng/kg; Oral LD50 (mc 00 mg/kg; Inhalation L Inhalation TCLO (hun ion LCLO (mouse): 29 tation Data: Eyes (rat vestigated as a mutag Registry of Toxic Effe- entry in RTECS for co ECS Number: KQ6300 IARC Monographs	O (man): puse): 3,4 C50 (rat) nan): 2,50 9,300 ppr obit): 500 en, repro cts of Che mplete in 0000	1.14 ml/kg 50 mg/kg; : 20,000 pp 00 mg/m3 (n (7h); mg (24h) r ductive effe emical Sub formation.	; Oral TDLO (Oral LD50 (m om (10h); Inha (20m); Inhalati nild; Skin (rab ector, and tur	man): 650 mg/l ouse): 10.5 ml/ alation TCLO (h ion LC50 (rat): bit): 20 mg (24 norigen.	kg; Oral LD50 numan): 1,800 5,900 mg/m3 h) moderate;
CAS	#	Hazardous Com	ponents (Ch	emical Name)		NTP	IARC	ACGIH	OSHA
124	4-10-7	Tetradecanoic ac	id, Methyl est	er		n.a.	n.a.	n.a.	n.a.
64	-17-5	Ethyl alcohol				n.a.	1	A4	n.a.
		ł	Secti	on 12. Ecolog	iical Ir	format	ion	Į	-
12.1	Toxicity	:		e into the environmer		ut			
	rexiency			fire control or dilution		ay cause po	ollution.		
12.2	Persiste	ence and	No data ava			, ,			
	Degrada	ability:							
12.3	-	Imulative	No data ava	ilable.					
	Potentia	al:							
12.4	Mobility	in Soil:	No data available.						
12.5	Results	of PBT and vPvB	3 No data available.						
	assessr	ment:							
12.6	Other ad	dverse effects:	No data available.						
			Sectio	n 13. Disposa	al Con	siderat	ions		
13.1	Waste D	Disposal Method:		ccordance with local,					
			Sect	tion 14. Trans	port Ir	format	ion		
14.1		RANSPORT (US I							
		er Shipping Name:	•	cohol Solution					
	OT Hazar		3	FLAMMABLE	ELIQUID				
	N/NA Nur		1170			king Grou	p:	II	
			FLAMMABLE I						
14.1		RANSPORT (Euro	-	-					
		hipping Name:	-	cohol Solution	-				
-	N Numbe		1170 2 ELAN		Pac	king Grou	p:	II	
Н	lazard Cla	ISS:	3 - FLAN	MMABLE LIQUID					
								_	
									Aulti-region for



14.3 AIR TRANSPORT (ICAO/IATA):							
	Shipping Name:	Ethyl Alcohol Solution					
UN Number:		1170	Packing Group:		П		
Hazard Class:		3 - FLAMMABLE LIQUID	IATA Classification:		3		
Additional Tra							
Information:	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					
mormation.			-	-			
		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. Regul	atory Informa	tion			
EPA SARA (Su	perfund Amendn	nents and Reauthorization Act of	-				
CAS #	Hazardous Com	ponents (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)		
124-10-7	Tetradecanoic ac	cid, Methyl ester	No	No	No		
64-17-5	Ethyl alcohol		No	No	No		
CAS #	Hazardous Com	ponents (Chemical Name)	Other US EPA or State Lists				
124-10-7	124-10-7 Tetradecanoic acid, Methyl ester			CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No			
64-17-5	Ethyl alcohol		CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No				
Regulatory Info	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.					
		Section 16. Oth	ner Informatio	n			
Revision Date:		03/25/2017					
Additional Info	rmation About	No data available.					
This Product:	ination About						
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 war express or implied, with respect to such information, and we assume no liability resulting fro use. Users should make their own investigations to determine the suitability of the information their particular purposes.			ty or any other warranty, ability resulting from its		