

l S	Section 1. I		(EC) No. 1272/2008				
l S			to Regulation (EC) No. 1907/2006 as amended by (EC) No. 1272/2008				
l	Draduat Cada	dentification of the Substance/Mixture and of the	he Company/Undertaking				
.2 1	Product Code: Product Name: Synonyms:	10012567 7(Z),11(Z)-Heptacosadiene heptacosa-7Z,11Z-diene;					
	Relevant identified uses of	f the substance or mixture and uses advised ag	ainst:				
	Relevant identified uses:	For research use only, not for human or veteri	nary use.				
.3 I	Details of the Supplier of t	he 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				
.4 I	Emergency telephone nun	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887				
		Section 2. Hazards Identific	ation				
.2.1		gulation (EC) No 1272/2008 [CLP]:					
.2.1	Labeling according to Kee	gulation (EC) No 1272/2008 [CLP]:					
	GHS Signal Word:	gulation (EC) No 1272/2008 [CLP]: Danger					
1							
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lie	Danger quid and vapor.					
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lie GHS Precaution Phrases	Danger quid and vapor.					
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable line GHS Precaution Phrases P210: Keep away from {here	Danger quid and vapor. s: eat/sparks/open flames/hot surfaces} No smoking	-				
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lie GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective gla	Danger quid and vapor. s: eat/sparks/open flames/hot surfaces} No smoking oves/protective clothing/eye protection/face protecti	-				
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lin GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective glo GHS Response Phrases	Danger quid and vapor. s: eat/sparks/open flames/hot surfaces} No smoking oves/protective clothing/eye protection/face protecti	ion}.				
	GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lie GHS Precaution Phrases P210: Keep away from {he P280: Wear {protective gle GHS Response Phrases P303+361+353: IF ON Sk water/shower. GHS Storage and Dispos	Danger quid and vapor. s: eat/sparks/open flames/hot surfaces} No smoking oves/protective clothing/eye protection/face protecti : KIN (or hair): Remove/take off immediately all conta	ion}. minated clothing. Rinse skin with				



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2.3 Adverse Human Health Effects and Symptoms:

Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption.

May cause eye, skin, or respiratory system irritation.

To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

		Sect	ion 3. Composition	/Information	on Ingredie	nts	
		1	•	1		1	
	CAS # / Hazardous Com RTECS # REACH Registra		ponents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification	
1004 NA	100462-58-6 Heptacosadiene (72 NA		,11Z)	1.0 %	NA NA	No data available.	
	64-17-5 Ethyl alcohol KQ6300000			99.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225	
			Section 4. Fi	rst Aid Meas	ures		
4.1	Descri Measu	ption of First Aid res:	No data available.				
	In Case	e of Inhalation:	Remove to fresh air. If not brochest Get immediate medical attention		al respiration or giv	ve oxygen by trained personnel.	
	In Case	e of Skin Contact:	Immediately wash skin with s clothing. Get medical attention			5 minutes. Remove contaminate pefore reuse.	
	In Case	e of Eye Contact:	Hold eyelids apart and flush of and tested by medical person		water for at least 1	5 minutes. Have eyes examined	
	In Case	e 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	-		May cause anemia, cough, C				
	Effects Delaye	s, Both Acute and d:	(weakness, exhaustion), liver	damage, narcosis,	reproductive effec	cts, teratogenic effects.	
			Section 5. Fire	Fighting Me	asures		
5.1	Suitab	le Extinguishing	Use alcohol-resistant foam, o	carbon dioxide, wate	er, or dry chemical	spray.	
	Media:		Use water spray to cool fire-	exposed containers			
	Unsuit Media:		A solid water stream may be	inefficient.			
5.2	Flamm	able Properties an	d Can release vapors that form	-	-	at or above the flashpoint.	
	Hazard	ls:	Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source	conditions.			
	Flash I	Pt:	14.00 C Method Used: Cl	osed Cup			
	Explos	ive Limits:	LEL: 3.3% at 25.0 C	UEL: 19%	at 25.0 C		
	Autoig	nition Pt:	363.00 C				
5.3	Fire Fig	ghting Instructions	As in any fire, wear self-cont equivalent), and full protectiv Note: Flammable as diluted i	e gear to prevent c	-		

Multi-region format



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			Section 6. Ac	cidental Release Me	easures		
6.1	Protecti	ve Precautions,	Avoid breathing vapo	ors and provide adequate venti	lation.		
	Protecti	ive Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator,					
	Emerge	ncy Procedures:	and appropriate pers	onal protection (rubber boots,	safety goggles, and heavy	rubber gloves).	
.2	Environ	primental Take steps to avoid release into the environment, if safe to do so.					
	Precaut						
6.3	Methods and Material For Contain spill and collect, as appropriate.						
			-	al waste container for disposal	in accordance with local re	equlations.	
	Up:		5			0	
	•		Section 7	Handling and Stor	200		
' .1	Precaut	ions To Be Taken		fume/gas/mist/vapours/spray.	age		
••	in Hand		Avoid prolonged or re				
	mmana	ing.	Keep away from sour				
				neasures against static dischar	ae.		
7.2	Precaut	ions To Be Taken	Keep away from heat	-	~		
	in Stori		Keep container tightly	•			
		- 3 -		with information listed on the p	roduct insert.		
	Other P	recautions:	Hygroscopic.				
		Sect	ion 8. Exposu	ire Controls/Persona	al Protection		
3.1	Exposur	e Parameters:					
CAS	-	Partial Chemical	Name	Britain EH40	France VL	Europe	
1004	62-58-6	Heptacosadiene (7Z,11Z)	No data.	No data.	No data.	
64	-17-5	Ethyl alcohol	-	TWA: 1920 mg/m3 (1000 ppm)	TWA: 1900 mg/m3 (1000	No data.	
				STEL: ()	ppm)		
					STEL: 9500 mg/m3 (5000		
					ppm)		
CAS		Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits	
1004	62-58-6	Heptacosadiene (7Z,11Z)	No data.	No data.	No data.	
64	-17-5	Ethyl alcohol		PEL: 1000 ppm	TLV: 1000 ppm	No data.	
3.2	Exposur	e Controls:					
3.2.1	Enginee	ering Controls	-	res, local exhaust ventilation, c	or other engineering control	s to control airborn	
	(Ventila	tion etc.):	levels below recomm	ended exposure limits.			
3.2.2	Persona	al protection equi	oment:				
	Eye Pro	Eye Protection: Safety glasses					
	Protecti	ve Gloves:	Compatible chemical	-resistant gloves			
	Other P	Protective Clothing:Lab coat					
	Respira	tory Equipment	NIOSH approved res	pirator, as conditions warrant.			
	(Specify	<i>и</i> Туре):					
	Work/H	ygienic/Maintenar	Do not take internally				
	ce Pract	tices:	Facilities storing or ut	tilizing this material should be e	equipped with an eyewash	facility and a safety	
			shower.				
			Wash thoroughly afte	er handling.			
			No data available.				
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	CHIMICAL	Supersedes Revision: 06/01/2010
	S	ection 9. Physical and Chemical Properties
9.1	Information on Basic Phy	sical and Chemical Properties
	Physical States:	[]Gas [X]Liquid []Solid
	Appearance and Odor:	A solution in ethanol
	Melting Point:	No data.
	Boiling Point:	No data.
	Flash Pt:	14.00 C Method Used: Closed Cup
	Evaporation Rate:	No data.
	Explosive Limits:	LEL: 3.3% at 25.0 C UEL: 19% at 25.0 C
	Vapor Pressure (vs. Air o	or mm 43 MM_HG at 20.0 C
	Hg):	
	Vapor Density (vs. Air = 1	1): No data.
	Specific Gravity (Water =	1): No data.
	Solubility in Water:	No data.
	Autoignition Pt:	363.00 C
9.2	Other Information	
	Percent Volatile:	No data.
	Molecular Formula & Wei	ight: C27H52 376.7
		Section 10. Stability and Reactivity
10.1	Reactivity:	No data available.
10.1	Stability:	Unstable [] Stable [X]
10.2	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.
10.5	Polymerization:	Will occur [] Will not occur [X]
40.4	-	
10.4	Conditions To Avoid:	heat, flames and sparks
10.5	Incompatibility - Material	ammonia
	To Avoid:	peroxides
		strong oxidizing agents
10.6	Hazardous	carbon dioxide
10.0	Decomposition Or	carbon monoxide
	Byproducts:	
	Byproducts.	
I		



	HEMICAL												
			Section 11. Toxic	ological Inf	formatio	on							
11.1	Informat Toxicolo	ion on ogical Effects:	The toxicological effects of this product have not been thoroughly studied. 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;					g; Oral LD50 ıman): 1,800 ,900 mg/m3					
	Chronic Effects:	Toxicological	Ethanol - Investigated as a mu Only select Registry of Toxic E See actual entry in RTECS for Ethanol RTECS Number: KQ6	Effects of Chemie complete inform	ical Substa		•	ented here.					
CAS	#	Hazardous Com	nponents (Chemical Name)	N.	ITP	IARC	ACGIH	OSHA					
1004	62-58-6	Heptacosadiene	(7Z,11Z)	Ui	Inknown	Unknown	Unknown	Unknown					
64	-17-5	Ethyl alcohol		n.	.a.	1	A4	n.a.					
		ł	Section 12. Ecol	ogical Info	ormation		ļ	•					
12.1	Toxicity	:	Avoid release into the environ	<u> </u>		-							
	l'oxiony.	•			cause pollu	tion.		Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.					
	Persistence and No data available.												
2.2	Persiste	nce and	No data available.										
12.2	Persiste Degrada		No data available.										
	Degrada Bioaccu	bility: mulative	No data available. No data available.										
12.3	Degrada Bioaccu Potentia	bility: mulative I:	No data available.										
12.3 12.4	Degrada Bioaccu Potentia Mobility	bility: mulative I: in Soil:											
12.3 12.4	Degrada Bioaccu Potentia Mobility	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.										
12.3 12.4 12.5	Degrada Bioaccu Potentia Mobility Results assessm	bility: mulative I: in Soil: of PBT and vPvB	No data available. No data available.										
12.3 12.4 12.5	Degrada Bioaccu Potentia Mobility Results assessm	ibility: mulative l: in Soil: of PBT and vPvB nent:	No data available. No data available. 3 No data available.	osal Consid	deratior	าร							
12.3 12.4 12.5 12.6	Degrada Bioaccu Potentia Mobility Results assessm Other ad	ibility: mulative l: in Soil: of PBT and vPvB nent:	No data available. No data available. No data available. No data available. Section 13. Dispo										
12.3 12.4 12.5 12.6	Degrada Bioaccu Potentia Mobility Results assessm Other ad	ibility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. No data available. Section 13. Dispo	cal, state, and fe	ederal regu	lations.							
12.3 12.4 12.5 12.6 13.1	Degrada Bioaccu Potentia Mobility Results assessm Other ad	ibility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects:	No data available. No data available. No data available. No data available. Section 13. Dispo Dispose in accordance with lo Section 14. Trai	cal, state, and fe	ederal regu	lations.							
12.3 12.4 12.5 12.6 13.1 14.1	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	ibility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method:	No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with lo Section 14. Trai DOT):	cal, state, and fe	ederal regu	lations.							
12.3 12.4 12.5 12.6 13.1 14.1 D	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D	ibility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US r Shipping Name	No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with lo Section 14. Trai DOT): E: Ethyl alcohol solution	cal, state, and fe	ederal regu	lations.							
D	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T	bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US r Shipping Name d Class:	No data available. No data available. No data available. No data available. Section 13. Dispose Dispose in accordance with lo Section 14. Trai DOT): E Ethyl alcohol solution	cal, state, and fe n sport Info BLE LIQUID	ederal regu	lations.							
12.3 12.4 12.5 12.6 13.1 14.1 D	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US r Shipping Name d Class:	No data available. Section 13. Dispose Dispose in accordance with lo Section 14. Trai DOT): Extra lacohol solution 3 FLAMMA	cal, state, and fe n sport Info BLE LIQUID	ederal regu ormation	lations.							
12.3 12.4 12.5 12.6 13.1 14.1 D U	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard	bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US r Shipping Name d Class: nber:	No data available. No data available. No data available. No data available. Section 13. Dispo Dispose in accordance with lo Section 14. Trai DOT): Ethyl alcohol solution 3 FLAMMA 1170	cal, state, and fe n sport Info BLE LIQUID	ederal regu ormation	lations.							
12.3 12.4 12.5 12.6 13.1 14.1 D U	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun	bility: mulative l: in Soil: of PBT and vPvB nent: Iverse effects: isposal Method: RANSPORT (US r Shipping Name d Class: nber:	No data available. No data available. No data available. No data available. Section 13. Dispon Dispose in accordance with lo Section 14. Trail DOT): Ethyl alcohol solution 3 FLAMMA 1170 Topean ADR/RID):	cal, state, and fe n sport Info BLE LIQUID	ederal regu ormation	lations.							
12.3 12.4 12.5 12.6 13.1 14.1 D U 14.1 A	Degrada Bioaccu Potentia Mobility Results assessm Other ad Waste D LAND T OT Prope OT Hazard N/NA Nun	bility: mulative l: in Soil: of PBT and vPvB nent: lverse effects: isposal Method: RANSPORT (US r Shipping Name d Class: nber: RANSPORT (Eur	No data available. No data available. No data available. No data available. Section 13. Dispo Dispose in accordance with lo Section 14. Trai DOT): Ethyl alcohol solution 3 FLAMMA 1170	cal, state, and fe nsport Info BLE LIQUID Packin	ederal regu ormation	lations.							



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14.3	AIR TRANSPORT (ICAO/IATA):	
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ICAO/IATA Shipping Name:	Ethyl alcohol solution				
UN Number:	1170	Packing Group:	II		
Hazard Class:	3 - FLAMMABLE LIQUID	IATA Classification:	3		
Additional Transport Transport in accordance with local, state, and federal regulations.					
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	ve to be labeled as Dangerous Go	ods/Excepted Quantity.		

Section 15. Regulatory Information

		Section 13. Regu	natory inform	alion	
EPA SARA (Si	uperfund Ameno	Iments and Reauthorization Act	of 1986) Lists		
CAS #	Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
100462-58-6	Heptacosadien	e (7Z,11Z)	No	No	No
64-17-5	Ethyl alcohol		No	No	No
CAS #	Hazardous Co	mponents (Chemical Name)	Other US EPA o	r State Lists	
100462-58-6	Heptacosadiene (7Z,11Z)		CAA HAP,ODC: PROP.65: No	No; CWA NPDES	: No; TSCA: No; CA
64-17-5	Ethyl alcohol		CAA HAP,ODC: Inventory; CA P	No; CWA NPDES ROP.65: No	: No; TSCA: Yes -
Regulatory Info Statement:	ormation	This SDS was prepared in acc No.1272/2008.	ordance with 29 CFI	R 1910.1200 and R	egulation (EC)
		Section 16. Ot	her Informati	on	
Revision Date:		04/07/2015			
Additional Info This Product:	rmation About	No data available.			
		currently available to us. Howe express or implied, with respec use. Users should make their of their particular purposes.	t to such information	n, and we assume r	no liability resulting from its

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