

Multi-region format

Revision: 08/06/2018 Supersedes Revision: 05/17/2013

		to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83						
	Section 1. I	dentification of the Substance/Mixture and of the	ne Company/Undertaking					
.1	Product Code:	14017						
	Product Name:	Erucin						
	Synonyms:	1-isothiocyanato-4-(methylthio)-butane;						
2	Relevant identified uses of	the substance or mixture and uses advised ag	jainst:					
	Relevant identified uses:	For research use only, not for human or veteri	nary use.					
.3	Details of the Supplier of the	ne Safety Data Sheet:						
	Company Name:							
		1180 E. Ellsworth Rd.						
	Wah site address.	Ann Arbor, MI 48108						
	Web site address:	www.caymanchem.com	.1 (724)074 2225					
	Information:	Cayman Chemical Company	+1 (734)971-3335					
.4	Emergency telephone num							
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300					
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887					
		Section 2. Hazards Identific	ation					
.1	Classification of the Substa	ance or Mixture:						
	Flammable Liquids, Cate	aory 2						
	Skin Corrosion/Irritation, Category 1B							
	Serious Eve Damage/Eve							
.2	Serious Eye Damage/Eye Label Elements:							
.2	Label Elements:	e Irritation, Category 1						
.2	Label Elements:							
.2	Label Elements:	e Irritation, Category 1 Danger						
2	Label Elements:	e Irritation, Category 1 Danger uuid and vapor.						
2	Label Elements:	<b>Danger</b> uuid and vapor. burns and eye damage.						
.2	Label Elements:	Pirritation, Category 1 Danger Juid and vapor. burns and eye damage. damage.						
.2	Label Elements: GHS Signal Word: GHS Hazard Phrases: H225: Highly flammable lice H314: Causes servere skin H318: Causes serious eye GHS Precaution Phrases	Danger uid and vapor. burns and eye damage. damage.	2.					
.2	Label Elements:	Pirritation, Category 1 Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking	g.					
.2	Label Elements:	Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.	g.					
2	Label Elements:	Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.						
.2	Label Elements:	Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection						
.2	Label Elements:	Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection						
.2	Label Elements:	Irritation, Category 1     Danger  uid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection	ion}.					
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.2	Label Elements: Constraints of the second s	Irritation, Category 1     Danger  Juid and vapor. burns and eye damage. damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection COWED: Rinse mouth. Do NOT induce vomiting.	ion}. minated clothing. Rinse skin with					
.2	Label Elements: Constraints of the second s	e Irritation, Category 1 Danger Juid and vapor. burns and eye damage. damage. : at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}. ughly after handling. ves/protective clothing/eye protection/face protection OWED: Rinse mouth. Do NOT induce vomiting. IN (or hair): Remove/take off immediately all conta	ion}. Iminated clothing. Rinse skin with sition comfortable for breathing.					
.2	Label Elements: Constraints of the second s	Irritation, Category 1     Danger     Juid and vapor.     burns and eye damage.     damage.     :     at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.     ughly after handling.     ves/protective clothing/eye protection/face protection COWED: Rinse mouth. Do NOT induce vomiting. IN (or hair): Remove/take off immediately all conta temove victim to fresh air and keep at rest in a pos	ion}. Iminated clothing. Rinse skin with sition comfortable for breathing.					
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.2	Label Elements: Constraints of the second s	Irritation, Category 1          Danger         uid and vapor.         burns and eye damage.         damage.         :         at/sparks/open flames/hot surfaces} No smoking t/fume/gas/mist/vapors/spray}.         ughly after handling.         ves/protective clothing/eye protection/face protection         OWED: Rinse mouth. Do NOT induce vomiting.         IN (or hair): Remove/take off immediately all conta         emove victim to fresh air and keep at rest in a pos         S: Rinse cautiously with water for several minutes         OISON CENTER or doctor/physician.         clothing before reuse.	ion}. Iminated clothing. Rinse skin with sition comfortable for breathing.					

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-un				Erucin		Revision: 08/06/2018		
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Effects and Symptoms: Mate May May			Material may be irritating to t May be harmful by inhalation May cause eye, skin, or resp	uses severe skin burns and severe eye damage. terial may be irritating to the mucous membranes and upper respiratory tract. y be harmful by inhalation, ingestion, or skin absorption. y cause eye, skin, or respiratory system irritation.				
		Sect	ion 3. Composition	-		t been thoroughly investigated.		
			-	1		1		
CAS RTEC		Hazardous Comp REACH Registra	oonents (Chemical Name)/ tion No.	Concentration	EC No./ EC Index No.	GHS Classification		
4430 EK441	0-36-8 18000	Erucin		5.0 %	630-604-5 NA	Skin Corr. 1B: H314 Eye Damage 1: H318		
64- KQ630	-17-5 00000	Ethyl alcohol 01-2119457610-43		95.0 %	200-578-6 603-002-00-5	Flam. Liq. 2: H225		
			Section 4. Fi	rst Aid Meas	sures			
4.1	-	tion of First Aid						
	Measur In Case	es: of Inhalation:	Remove to fresh air. If not bro		ial respiration or giv	ve oxygen by trained personnel		
	In Case	of Skin Contact:		oap and plenty of		0 minutes. Remove contaminat before reuse.		
	In Case	of Eye Contact:	Hold eyelids apart and flush eyes with plenty of water for at least 20 minutes. Have eyes examine and tested by medical personnel.					
	In Case of Ingestion: Wash out mouth with w			-	-	ive anything by mouth to an ng unless directed to do so by		
4.2	-	Both Acute and	I May cause anemia, cough, C (weakness, exhaustion), liver					
			Section 5. Fire	Fighting Me	easures			
5.1		e Extinguishing	Use alcohol-resistant foam, o		-	l spray.		
	Media:Use water spray to cool fire-exposed containers.Unsuitable ExtinguishingA solid water stream may be inefficient.							
	Media:							
5.2	Hazards	-	dCan release vapors that form Container explosion may occ Emits toxic fumes under fire Sensitive to static discharge. Vapors can travel to a source	cur under fire condi conditions.	itions.	at of above the nashpoint.		
	Flash P	t:	No data available. 14.00 C Method Used: Cl	osed Cup				
		ve Limits:	LEL: 3.3% at 25.0 C	·	% at 25.0 C			
	Autoign	ition Pt:	363.00 C					
5.3	Fire Fig	hting Instructions	As in any fire, wear self-cont	ained breathing ap	paratus pressure-d	lemand (NIOSH approved or		

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		Section 6.	Accidenta	I Release Measures			
6.1	Protective Precautions,	-		vide adequate ventilation.			
	Protective Equipment and As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator						
	Emergency Procedures:	and appropriate	e personal prote	ction (rubber boots, safety goggles, and	heavy rubber gloves).		
6.2	Environmental	Take steps to a	void release into	o the environment, if safe to do so.			
	Precautions:						
6.3	Methods and Material For	-		-			
	Containment and Cleanin	gTransfer to a ch	emical waste co	ontainer for disposal in accordance with	local regulations.		
	Up:						
		Section	n 7. Hand	ling and Storage			
7.1	Precautions To Be Taken	Avoid breathing	dust/fume/gas/r	nist/vapours/spray.			
	in Handling:	Avoid prolonged	l or repeated ex	posure.			
	Keep away from sources of ignition.						
	Take precautionary measures against static discharge.						
7.2	Precautions To Be Taken		-	nd flame.			
	in Storing:	Keep container tightly closed.					
		Store in accordance with information listed on the product insert.					
	Other Precautions:	Hygroscopic					
	Sect	tion 8. Exp	osure Con	trols/Personal Protection			
8.1	Exposure Parameters:						
CAS	# Chemical Name	Jurisdic	tion	Recommended Exposure Limits	Notations		
64-17	-5 Ethyl alcohol	ACGIH T	LV	TLV: 1000 ppm			
		France V	′L	TWA: 1900 mg/m3 (1000 ppm)			
		OSHA P	FLo	STEL: 9500 mg/m3 (5000 ppm) PEL: 1000 ppm			
		Britain E		TWA: 1920 mg/m3 (1000 ppm)			
		Dintain E		STEL: ()			
8.2	Exposure Controls:	·			·		
8.2.1	Engineering Controls	Use process end	closures, local e	xhaust ventilation, or other engineering	controls to control airborr		
	(Ventilation etc.):	levels below recommended exposure limits.					
8.2.2	Personal protection equipment:						
	Eye Protection:	Safety glasses	glasses				
	Protective Gloves:	Compatible chemical-resistant gloves					
	Other Protective Clothing:Lab coat						
	Respiratory Equipment (Specify Type):	NIOSH approved respirator, as conditions warrant.					
		tenan Do not take internally.					
	ce Practices:	Facilities storing or utilizing this material should be equipped with an eyewash and a safety show					
		Wash thoroughly after handling.					
		No data available.					

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Section 9. Physical and Chemical Properties         9.1       Information on Basic Physical and Chemical Properties         Physical States:       []Gas [X] Liquid [] Solid         Appearance and Odor:       A solution in ethanol         pH:       No data.         Boiling 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.         Flammability (solid, gas):       No data.         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.       Solubility in Water = 1):         No data.       Octano/Water Partition       No data.         Octano/Water Partition       No data.       Octano/Water Partition         No data.       Solubility in Water:       No data.         9.2       Other Information       Percent Volatile:       No data.         9.2       Other Information       Percent Volatile:       No data.         9.2       Other Information       Percent Volatile:       No data.         9.1	
Physical States:       []Gas       [X]Liquid       []Solid         Appearance and Odor:       A solution in ethanol         pH:       No data.         Metting Point:       No data.         Boiling Point:       No data.         Flash Pt:       14.00 C         Evaporation Rate:       No data.         Flash Pt:       14.00 C         Methidy (solid, gas):       No data.         Flash Pt:       14.00 C         Molata.       Solution in ethanol         Flash Pt:       No data.         Flash Pt:       No data.         Vapor Pressure (vs. Air or mm       43 MM_HG at 20.0 C         Vapor Density (vs. Air = 1):       No data.         Solubility in Water:       No data.         Coefficient:       No data.         Autoignition Pt:       363.00 C         Decomposition Temperature:       No data.         Viscosity:       No data.         Percent Volatile: <td< th=""><th></th></td<>	
Appearance and Odor:       A solution in ethanol         pH:       No data.         Metting 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):         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:         Autoignition Pt:       363.00 C         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.         Molecular Formula & Weight:       C6H11NS2         161.3       Section 10. Stability and Reactivity         10.1       Reactivity:       No data available.         10.2       Stability:       Unstabe[]	
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Hg):       Vapor Density (vs. Air = 1):       No data.         Specific Gravity (Water = 1):       No data.         Solubility in Water:       No data.         Solubility in Water:       No data.         Octanol/Water Partition       No data.         Octanol/Water Partition       No data.         Coefficient:       No data.         Autoignition Pt:       363.00 C         Decomposition Temperature:       No data.         Viscosity:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.         Molecular Formula & Weight:       C6H11NS2       161.3         Section 10. Stability and Reactivity         10.1       Reactivity:       No data available.         10.2       Stability:       Unstable[]	
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Octanol/Water Partition       No data.         Coefficient:       363.00 C         Autoignition Pt:       363.00 C         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.         Molecular Formula & Weight:       C6H11NS2         10.1       Reactivity:       No data available.         10.2       Stability:       Unstable []	
Coefficient:       363.00 C         Autoignition Pt:       363.00 C         Decomposition Temperature:       No data.         Viscosity:       No data.         9.2       Other Information         Percent Volatile:       No data.         Molecular Formula & Weight:       C6H11NS2         10.1       Reactivity:       No data available.         10.2       Stability:       Unstable []	
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Section 10. Stability and Reactivity       10.1 Reactivity:       10.2 Stability:     Unstable []	
10.1     Reactivity:     No data available.       10.2     Stability:     Unstable []	
10.1     Reactivity:     No data available.       10.2     Stability:     Unstable []	
10.2     Stability:     Unstable []     Stable [X]	
<b>10.3 Stability Note(s):</b> Stable if stored in accordance with information listed on the product insert.	
Polymerization: Will occur [ ] Will not occur [ X ]	
<b>10.4 Conditions To Avoid:</b> heat, flames, and sparks	
10.5 Incompatibility - Materials alkali metals	
To Avoid: ammonia	
peroxides	
strong oxidizing agents	
10.6 Hazardous carbon dioxide	
Decomposition or carbon monoxide	
Byproducts:	
Multi-reg	



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		Section	11. Toxicolo	ogical Informa	tion			
	ogical Effects: Toxicological	Ethanol - Toxi (rat): 7,060 mg (rabbit): 6,300 ppm (30m); In (6h); Inhalatio Ethanol - Irrita Ethanol - Inve Only select Re See actual en	icity Data: Oral TDL g/kg; Oral LD50 (mc mg/kg; Inhalation L halation TCLO (hun n LCLO (mouse): 29 ation Data: Eyes (rat	obit): 500 mg (24h) m len, reproductive effe cts of Chemical Subs mplete information.	Oral TDLO (r Dral LD50 (mo m (10h); Inha 0m); Inhalati ild; Skin (rabl ctor, and tum tances (RTE	man): 650 mg/l ouse): 10.5 ml/ lation TCLO (h on LC50 (rat): bit): 20 mg (24 lorigen.	kg; Oral LD50 numan): 1,800 5,900 mg/m3 h) moderate;	
CAS #			NTP? No       IARC Monographs? No       OSHA Regulated? No         ponents (Chemical Name)       NTP       IARC       ACGIH       OSHA					
4430-36-8	Erucin			n.a.	n.a.	n.a.	n.a.	
64-17-5	Ethyl alcohol			n.a.	1	A4	n.a.	
	,	Sootia		jical Information		Į		
assessm 2.6 Other ad	nce and bility: mulative I: in Soil: of PBT and vPvB nent: Iverse effects:	Runoff from fir No data availa No data availa No data availa No data availa No data availa No data availa Dispose in acc	able. able. able. able. <b>13. Disposa</b> cordance with local,	al Considerationstate, and federal real	DNS gulations.			
14.1 LAND T	RANSPORT (US				511			
DOT Prope DOT Hazaro UN/NA Nun 14.1 LAND T	r Shipping Name d Class: nber: RANSPORT (Eur hipping Name: r:	Ethyl Alco 3 UN1170 UN1170 opean ADR/RII Ethyl Alco 1170	Dhol Solution FLAMMABLE D): Dhol Solution MABLE LIQUID	E LIQUID Packing Group Packing Group		"		



Revision: 08/06/2018 Supersedes Revision: 05/17/2013

### 14.3 AIR TRANSPORT (ICAO/IATA): ICAO/IATA Shipping Name: Ethyl Alcohol Solution **UN Number:** 1170 Packing Group: Ш 3 - FLAMMABLE LIQUID Hazard Class: 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 to be labeled as Dangerous Goods/Excepted Quantity. Section 15. Regulatory Information EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists CAS # Hazardous Components (Chemical Name) S. 302 (EHS) S. 304 RQ S. 313 (TRI) 4430-36-8 Erucin No No No 64-17-5 Ethyl alcohol No No No CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists CAA HAP, ODC: No; CWA NPDES: No; TSCA: No; CA 4430-36-8 Erucin PROP.65: No 64-17-5 CAA HAP, ODC: No; CWA NPDES: No; TSCA: Yes -Ethyl alcohol Inventory; CA PROP.65: No **Regulatory Information** This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008. Statement: Section 16. Other Information **Revision Date:** 08/06/2018 Additional Information About No data available. This Product: 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 warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

Multi-region format