

Revision: 11/04/2018 Supersedes Revision: 10/19/2012

		ng to Degulation (EQ) No. 1007/2004						
according to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/830 and US OSHA HCS 2015 Section 1. Identification of the Substance/Mixture and of the Company/Undertaking								
	Section 1.	Identification of the Substance/Mixture and of th	ne Company/Undertaking					
1.1	Product Code:	38420						
	Product Name:	9-OxoODE						
	Synonyms:	9-oxo-10E,12Z-octadecadienoic acid; 9-KODE	• ?					
1.2	Relevant identified uses of the substance or mixture and uses advised against:							
	<b>Relevant identified uses:</b> For research use only, not for human or veterinary use.							
1.3	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 (734)971-3333					
1.4	Emergency telephone nu		1 (200) 424 0200					
	Emergency Contact:	CHEMTREC Within USA and Canada: CHEMTREC Outside USA and Canada:	+1 (800)424-9300 +1 (703)527-3887					
		Section 2. Hazards Identification	ation					
2.1	Classification of the Subs	stance or Mixture:						
	Flammable Liquids, Ca	egory 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/clothing and eye/face protection as specified by the manufacturer/supplier or the competent							
	authority.							
	GHS Response Phrases:							
	P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.							
			ninated clothing. Rinse skin with					
		KIN (or hair): Remove/take off immediately all contar	ninated clothing. Rinse skin with					
	water/shower. GHS Storage and Dispo	KIN (or hair): Remove/take off immediately all contar						
2.3	water/shower. GHS Storage and Dispo	KIN (or hair): Remove/take off immediately all contar						
2.3	water/shower. <b>GHS Storage and Dispo</b> Please refer to Section 7	KIN (or hair): Remove/take off immediately all contar sal Phrases: for Storage and Section 13 for Disposal information.	es and upper respiratory tract.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar sal Phrases: for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane	es and upper respiratory tract. sorption.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar <b>sal Phrases:</b> for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab	es and upper respiratory tract. sorption. n.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar <b>sal Phrases:</b> for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye, skin, or respiratory system irritation	es and upper respiratory tract. sorption. n.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar <b>sal Phrases:</b> for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye, skin, or respiratory system irritation	es and upper respiratory tract. sorption. n.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar <b>sal Phrases:</b> for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye, skin, or respiratory system irritation	es and upper respiratory tract. sorption. n.					
2.3	water/shower. GHS Storage and Dispo Please refer to Section 7 Adverse Human Health	KIN (or hair): Remove/take off immediately all contar <b>sal Phrases:</b> for Storage and Section 13 for Disposal information. Material may be irritating to the mucous membrane May be harmful by inhalation, ingestion, or skin ab May cause eye, skin, or respiratory system irritation	es and upper respiratory tract. sorption. n.					
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Measur In Case In Case	REACH Registrat 9-OxoODE Ethyl alcohol 01-2119457610-43 otion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact: of Ingestion: ant Symptoms and both Acute and d: e Extinguishing	Section 4. Fin Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire	eathing, give artifici tion. oap and plenty of w n if symptoms occu eyes with plenty of w nel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, <b>Fighting Me</b>	al respiration or giv vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect	0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
NA 64-17-5 KQ6300000 I.1 Descrip Measur In Case In Case	Ethyl alcohol 01-2119457610-43 etion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact: of Ingestion: ant Symptoms and both Acute and d: e Extinguishing	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	99.99 % rst Aid Meas eathing, give artifici- tion. oap and plenty of w n if symptoms occu- eyes with plenty of w anel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	NA 200-578-6 603-002-00-5 UIES al respiration or giv vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect	Flam. Liq. 2: H225 ve oxygen by trained personne 0 minutes. Remove contaminat before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ing unless directed to do so by he, heart damage, lassitude cts, teratogenic effects.
KQ6300000 I.1 Descrip Measur In Case In Case	otion of First Aid es: of Inhalation: of Skin Contact: of Eye Contact: of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	rst Aid Meas eathing, give artifici- tion. oap and plenty of w n if symptoms occu eyes with plenty of w nnel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	603-002-00-5 UIES al respiration or giv vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect aSUIES	ve oxygen by trained personne 0 minutes. Remove contaminat before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
Measur In Case In Case	es: of Inhalation: of Skin Contact: of Eye Contact: of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	Remove to fresh air. If not bre Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	eathing, give artifici tion. oap and plenty of w n if symptoms occu eyes with plenty of w nel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, <b>Fighting Me</b>	al respiration or giv vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect	0 minutes. Remove contaminat before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
Measur In Case In Case	es: of Inhalation: of Skin Contact: of Eye Contact: of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver <b>Section 5. Fire</b> Use alcohol-resistant foam, c	ion. oap and plenty of w n if symptoms occu eyes with plenty of w nel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect	0 minutes. Remove contaminat before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
In Case In Case In Case In Case In Case In Case Effects Delayed 5.1 Suitable Media: Unsuita Media:	e of Skin Contact: e of Eye Contact: e of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	Get immediate medical attent Immediately wash skin with s clothing. Get medical attentio Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver <b>Section 5. Fire</b> Use alcohol-resistant foam, c	ion. oap and plenty of w n if symptoms occu eyes with plenty of w nel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	vater for at least 20 ir. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin bwsiness, headach reproductive effect	0 minutes. Remove contaminat before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
In Case In Case In Case Effects Delayed 5.1 Suitable Media: Unsuita Media:	e of Eye Contact: e of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	clothing. Get medical attention Hold eyelids apart and flush e and tested by medical person Wash out mouth with water p unconscious person. Get medical medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	n if symptoms occu eyes with plenty of v nnel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	r. Wash clothing b water for at least 2 onscious. Never gi NOT induce vomitin wwsiness, headach reproductive effect	before reuse. 0 minutes. Have eyes examine ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
In Case In Case Effects Delayed 5.1 Suitable Media: Unsuita Media:	e of Ingestion: ant Symptoms and , Both Acute and d: e Extinguishing	and tested by medical person Wash out mouth with water p unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver <b>Section 5. Fire</b> Use alcohol-resistant foam, c	nel. rovided person is c dical attention. Do N NS depression, dro damage, narcosis, <b>Fighting Me</b>	onscious. Never gi NOT induce vomitin owsiness, headach reproductive effect ASUICES	ive anything by mouth to an ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
9.2 Importa Effects Delayed 5.1 Suitable Media: Unsuita Media:	ant Symptoms and , Both Acute and d: e Extinguishing	unconscious person. Get med medical personnel. May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	dical attention. Do N NS depression, dro damage, narcosis, Fighting Me	NOT induce vomitin owsiness, headach reproductive effect	ng unless directed to do so by ne, heart damage, lassitude cts, teratogenic effects.
Effects Delayed 5.1 Suitable Media: Unsuita Media:	, Both Acute and d: e Extinguishing	May cause anemia, cough, C (weakness, exhaustion), liver Section 5. Fire Use alcohol-resistant foam, c	damage, narcosis, Fighting Me	reproductive effect	cts, teratogenic effects.
Media: Unsuita Media:		Use alcohol-resistant foam, o			spray.
Media: Unsuita Media:			arbon dioxide, wat	er or dry chemical	spray.
Unsuita Media:	able Extinguishing	I lse water spray to cool fire-e		er, er ary erfernioar	op. cy.
Media:	able Extinguishing		exposed containers		
		A solid water stream may be	inefficient.		
5.2 Flamma	able Properties and	dCan release vapors that form	explosive mixtures	s at temperatures a	at or above the flashpoint.
Hazard	-	Container explosion may occ	•		
		Emits toxic fumes under fire	conditions.		
		Sensitive to static discharge.			
		Vapors can travel to a source	e of ignition and flas	sh back.	
		No data available.			
Flash P	't:	14.00 C Method Used: Cl	osed Cup		
Explosi	ve Limits:	LEL: 3.3% at 25.0 C	UEL: 19.0%	6 at 25.0 C	
Autoigr	nition Pt:	363.00 C			
5.3 Fire Fig	hting Instructions	: As in any fire, wear self-conta equivalent), and full protectiv Note: Flammable as diluted i	e gear to prevent c	-	



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5.1 5.2 5.3	Emergency Procedures: Environmental Precautions:	Avoid bind As conc	on 6. Accident	al Release Measures				
5.2	Protective Equipment an Emergency Procedures: Environmental Precautions:	nd As cond	reathing vapors and pi					
	Emergency Procedures: Environmental Precautions:			ovide adequate ventilation.				
	Environmental Precautions:	and app	nd As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator					
	Precautions:		propriate personal prot	ection (rubber boots, safety goggles, and hea	avy rubber gloves).			
5.3		<b>.2 Environmental</b> Take steps to avoid release into the environment, if safe to do so.						
5.3	Methods and Material Fo							
		or Contain spill and collect, as appropriate.						
	Containment and Cleaning	ingTransfer to a chemical waste container for disposal in accordance with local regulations.						
	Up:							
		S	ection 7. Hand	dling and Storage				
7.1	Precautions To Be Taker			· · ·				
	in Handling:	Avoid prolonged or repeated exposure.						
		Keep aw	ay from sources of igr	nition.				
		Take precautionary measures against static discharge.						
7.2	Precautions To Be Taker	n Keep aw	ay from heat, sparks,	and flame.				
	in Storing:	Keep container tightly closed.						
		Store in	accordance with inforr	nation listed on the product insert.				
	Other Precautions:	Hygrosc	opic					
		Oxygen and light sensitive						
	Sec	ction 8.	Exposure Co	ntrols/Personal Protection				
3.1	Exposure Parameters:							
CAS #	Chemical Name	J	urisdiction	Recommended Exposure Limits	Notations			
64-17-	5 Ethyl alcohol	A	CGIH TLV	TLV: 1000 ppm				
		F	rance VL	TWA: 1900 mg/m3 (1000 ppm)				
				STEL: 9500 mg/m3 (5000 ppm)				
		Ľ	OSHA PELs Britain EH40	PEL: 1000 ppm				
		1 -		$T_{M/A}$ , 4000 m m/m 2 (4000 m mm)				
		E		TWA: 1920 mg/m3 (1000 ppm) STEL: ()				
3.2	Exposure Controls:	E		TWA: 1920 mg/m3 (1000 ppm) STEL: ()				
	Exposure Controls: Engineering Controls			STEL: ()	trols to control airborr			
3.2 3.2.1	Engineering Controls	Use prod		STEL: () exhaust ventilation, or other engineering con	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.):	Use prod	cess enclosures, local	STEL: () exhaust ventilation, or other engineering con	trols to control airborr			
	Engineering Controls (Ventilation etc.): Personal protection equ	Use proo levels be	cess enclosures, local elow recommended ex	STEL: () exhaust ventilation, or other engineering con	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection:	Use prod levels be <b>lipment:</b> Safety g	cess enclosures, local elow recommended ex lasses	STEL: () exhaust ventilation, or other engineering con posure limits.	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves:	Use proo levels be <b>lipment:</b> Safety g Compati	cess enclosures, local elow recommended ex lasses ble chemical-resistant	STEL: () exhaust ventilation, or other engineering con posure limits.	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin	Use prod levels be <b>lipment:</b> Safety g Compati	cess enclosures, local elow recommended ex lasses ble chemical-resistant	STEL: () exhaust ventilation, or other engineering con posure limits. gloves	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equ Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment	Use prod levels be <b>lipment:</b> Safety g Compati	cess enclosures, local elow recommended ex lasses ble chemical-resistant	STEL: () exhaust ventilation, or other engineering con posure limits. gloves	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type):	Use prod levels be <b>lipment:</b> Safety g Compati <b>ng:</b> Lab coat NIOSH a	cess enclosures, local elow recommended ex lasses ble chemical-resistant t approved respirator, as	STEL: () exhaust ventilation, or other engineering con posure limits. gloves	trols to control airborr			
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type): Work/Hygienic/Maintena	Use prod levels be <b>lipment:</b> Safety g Compati <b>ng:</b> Lab coat NIOSH a	cess enclosures, local elow recommended ex lasses ble chemical-resistant t approved respirator, as	STEL: () exhaust ventilation, or other engineering con posure limits. gloves				
3.2.1	Engineering Controls (Ventilation etc.): Personal protection equination Eye Protection: Protective Gloves: Other Protective Clothin Respiratory Equipment (Specify Type):	Use prod levels be <b>ipment:</b> Safety g Compati <b>ig:</b> Lab coat NIOSH a <b>an</b> Do not ta Facilities	cess enclosures, local elow recommended ex lasses ble chemical-resistant t approved respirator, as	STEL: ()   exhaust ventilation, or other engineering conposure limits.   gloves   s conditions warrant.   s material should be equipped with an eyewa				



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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.				
	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 Temper	ature: No data.				
	Viscosity:	No data.				
9.2	Other Information					
	Percent Volatile:	No data.				
	Molecular Formula & W	eight: C18H30O3 294.4				
		Section 10. Stability and Reactivity				
10.1	Reactivity:	No data available.				
10.2	Stability:	Unstable [ ] Stable [ X ]				
10.3	Stability Note(s):	Stable if stored in accordance with information listed on the product insert.				
	Polymerization:	Will occur [ ] Will not occur [ X ]				
10.4	Conditions To Avoid:	heat, flames, and sparks				
10.4	conditions to Avoid.	oxygen and light sensitive				
10.5	Incompatibility - Materia					
10.0	To Avoid:	ammonia				
		peroxides				
		strong oxidizing agents				
10.6	Hazardous	carbon dioxide				
	Decomposition or	carbon monoxide				
	Byproducts:					



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	HIMICAL				S	upersedes Revis	ion: 10/19/2012		
			Section 11. Toxicolog	gical Informa	ation				
11.1	Informa	tion on	The toxicological effects of this proc	duct have not beer	n thoroughly st	udied.			
	Toxicol	ogical Effects:	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 (huma		(20m); Inhalati	on 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;						
	Chronic	: Toxicological	Ethanol - Investigated as a drug, m	utagen, natural pr	oduct, primary	irritant, reprod	uctive effector,		
	Effects:	:	and tumorigen.						
			Only select Registry of Toxic Effect		stances (RTE	CS) data is pre	sented here.		
			See actual entry in RTECS for com	•					
			Ethanol RTECS Number: KQ63000						
	nogenicit	-	NTP? No IARC Monographs?		egulated? No				
CAS			ponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	32-59-6	9-OxoODE		n.a.	n.a.	n.a.	n.a.		
64	-17-5	Ethyl alcohol		n.a.	1	A4	n.a.		
			Section 12. Ecologi	cal Informat	ion				
12.1	Toxicity	/:	Avoid release into the environment.						
			Runoff from fire control or dilution w	vater may cause p	ollution.				
12.2	Persiste	ence and	No data available.						
	Degrad	ability:							
12.3 Bioaccumulative			No data available.						
	Potentia	al:							
12.4	Mobility	/ in Soil:	No data available.						
12.5 Results of PBT and vPvB		of PBT and vPvB	No data available.						
	assessi	ment:							
12.6	Other a	dverse effects:	No data available.						
			Section 13. Disposal	Considerat	ions				
13.1	Waste I	Disposal Method:	Dispose in accordance with local, s						
		•	Section 14. Transp		-				
L 14.1		TRANSPORT (US I	•						
		er Shipping Name:							
	OT Haza		3 FLAMMABLE	סווסט ו					
	N/NA Nu		UN1170	Packing Grou	ID:	11			
•					·F.				
			FLOMMOBLE LIQUID						
			3						
14.1	LAND	TRANSPORT (Euro	opean ADR/RID):						
Α	DR/RID S	Shipping Name:	Ethyl Alcohol Solution						
U	N Numbe	er:	1170	Packing Grou	ıp:	II			
н	lazard Cla	ass:	3 - FLAMMABLE LIQUID	ADR Classific	cation:	3			

Multi-region format



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#### 14.3 AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name:Ethyl Alcohol SolutionAdditional TransportTransport 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<br/>E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10.<br/>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

No.1272/2008.

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
54232-59-6	9-OxoODE	No	No	No	
64-17-5 Ethyl alcohol No No					
CAS #	Hazardous Components (Chemical Name)	Other US EPA or	State Lists		
54232-59-6	9-OxoODE	CAA HAP,ODC: No; CWA NPDES: No; TSCA: No; CA PROP.65: No			
64-17-5 Ethyl alcohol CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No					
Regulatory Inf	ormation This SDS was prepared in acc	1910.1200 and Reg	ulation (EC)		

Statement:

Section 16. Other Information

Revision Date:11/04/2018Additional Information AboutNo 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.