

Revision: 11/10/2019

		g to Regulation (EC) No. 1907/2006 as amended by (EC) No. 2015/83					
	Section 1. I	dentification of the Substance/Mixture and of th	e Company/Undertaking				
1	Product Code:	29377					
	Product Name:	Non-polar Lipid Mixture 2 (plant, ovine)					
2	Relevant identified uses of	the substance or mixture and uses advised aga	ainst:				
	Relevant identified uses:	For research use only, not for human or veterir	nary use.				
3	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	Emergency telephone nun	nber:					
	Emergency Contact:	CHEMTREC Within USA and Canada:	+1 (800)424-9300				
		CHEMTREC Outside USA and Canada:	+1 (703)527-3887				
		Section 2. Hazards Identification	ation				
I	Classification of the Subst	ance or Mixture:					
	Acute Toxicity: Inhalatio	n, Category 3					
	Acute Toxicity: Oral, Cat	egory 4					
	Skin Corrosion/Irritation	, Category 2					
	Serious Eye Damage/Eye	Irritation Catagony 2A					
	Ochous Lyc Danage/Ly	e initation, Category ZA					
	Carcinogenicity, Catego						
		ry 2					
	Carcinogenicity, Categor Toxic To Reproduction,	ry 2					
2	Carcinogenicity, Categor Toxic To Reproduction,	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, Specific Target Organ To	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, Specific Target Organ To	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, Specific Target Organ To	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, Specific Target Organ To	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, Specific Target Organ To	ry 2 Category 2					
2	Carcinogenicity, Categor Toxic To Reproduction, G Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases:	ry 2 Category 2 oxicity (repeated exposure), Category 2 <b>Category 2</b> <b>Danger</b>					
2	Carcinogenicity, Categor Toxic To Reproduction, G Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe	ry 2 Category 2 oxicity (repeated exposure), Category 2 <b>Category 2</b> <b>Danger</b> d.					
2	Carcinogenicity, Categor Toxic To Reproduction, G Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritation	ry 2 Category 2 oxicity (repeated exposure), Category 2 <b>Category 2</b> <b>Danger</b> d.					
2	Carcinogenicity, Categor Toxic To Reproduction, G Specific Target Organ To Label Elements: GHS Signal Word: GHS Hazard Phrases: H302: Harmful if swallowe H315: Causes skin irritation H319: Causes serious eye	ry 2 Category 2 oxicity (repeated exposure), Category 2 <b>Category 2</b> <b>Danger</b> d.					
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	CHEMICAL							
	P304+340: IF INHALED:	Remove victim to fresh air and keep at rest in a position comfortable for breathing.						
	P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy							
	to do. Continue rinsing.							
	P308+313: IF exposed o	P308+313: IF exposed or concerned: Get medical attention/advice.						
	P311: Call a POISON CENTER or doctor/physician.							
	P314: Get medical attent	tion/advice if you feel unwell.						
	P330: Rinse mouth.							
	P332+313: If skin irritatio	on occurs, get medical advice/attention.						
	P337+313: If eye irritatio	n persists, get medical advice/attention.						
	P362+364: Take off cont	aminated clothing and wash it before reuse.						
	GHS Storage and Dispo	GHS Storage and Disposal Phrases:						
	Please refer to Section 7	for Storage and Section 13 for Disposal information.						
2.3	Adverse Human Health	Causes serious eye irritation.						
	Effects and Symptoms:	Causes skin irritation.						
		Harmful if swallowed.						
		Material may be irritating to the mucous membranes and upper respiratory tract.						
		May be harmful by skin absorption.						
		May cause damage to organs through prolonged or repeated exposure.						
		May cause respiratory system irritation.						
		Suspected of causing cancer.						
		Suspected of damaging fertility or the unborn child.						
		Toxic if inhaled.						
		To the best of our knowledge, the toxicological properties have not been thoroughly investigated.						
1								

# Section 3. Composition/Information on Ingredients

CAS # / RTECS #	Hazardous Components (Chemical Name)/ REACH Registration No.	Concentration	EC No./ EC Index No.	GHS Classification
NA NA	Non-polar Lipid Mixture 2 (plant, ovine)	2.5 %	NA NA	No data available.
67-66-3 FS9100000	Chloroform 01-2119486657-20	97.5 %	200-663-8 602-006-00-4	Acute Tox.(O) 4: H302 Acute Tox.(I) 3: H331 Eye Damage 2: H319 Skin Corr. 2: H315 Carcinogen 2: H351 Toxic Repro. 2: H361d STOT (RE) 1: H372



Revision: 11/10/2019

		Section 4. First Aid Measures
4.1	Description of First Aid	
	Measures:	
	In Case of Inhalation:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel Get immediate medical attention.
	In Case of Skin Contact:	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate 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 examine and tested by medical personnel.
	In Case 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	Important Symptoms and Effects, Both Acute and Delayed:	Exposure may cause: dizziness, drowsiness, gastrointestinal disturbances, headache, lassitude, nausea, and vomiting.
		Section 5. Fire Fighting Measures
5.1	Suitable Extinguishing	Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.
5.1	Media:	Use water spray to cool fire-exposed containers.
		A solid water stream may be inefficient.
5.2	Flammable Properties an Hazards:	<b>d</b> No data available.
		No data available.
	Flash Pt:	No data.
	Explosive Limits:	LEL: No data. UEL: No data.
	Autoignition Pt:	No data.
5.3	Fire Fighting Instructions	As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.
		Section 6. Accidental Release Measures
6.1	Protective Precautions,	Avoid breathing vapors and provide adequate ventilation.
		d As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator
	Emergency Procedures:	and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).
6.2	Environmental Precautions:	Take steps to avoid release into the environment, if safe to do so.
6.3		r Contain spill and collect, as appropriate. $\mathbf{g}$ Transfer to a chemical waste container for disposal in accordance with local regulations.
	ор. 	Castier 7 Llandling and Charage
		Section 7. Handling and Storage
7.1	Precautions To Be Taken in Handling:	Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure.
	-	
7.2	Precautions To Be Taken	Reep container lightly closed.

Multi-region format



8.1	Exposure Parameters:			
AS i	•	Jurisdiction	Recommended Exposure Limits	Notations
67-66	-3 Chloroform	ACGIH TLV	TLV: 10 ppm	
		Europe	TWA: 10 mg/m3 (2 ppm)	Skin Absorptio
		France VL	TWA: 10 mg/m3 (2 ppm) STEL: 250 mg/m3 (50 ppm)	
		OSHA PELs	CEIL: 50 ppm	
		Britain EH40	TWA: 9.9 mg/m3 (2 ppm) STEL: ()	Skin Absorptio
.2	Exposure Controls:			
.2.1	Engineering Controls Use	process enclosures, loca	I exhaust ventilation, or other engineering cont	trols to control airbor
	(Ventilation etc.): level	s below recommended e	xposure limits.	
.2.2	Personal protection equipmen	t:		
	Eye Protection: Safe	ty glasses		
	Protective Gloves: Com	patible chemical-resistar	nt gloves	
	Other Protective Clothing:Lab	coat		
	Respiratory Equipment NIOS	SH approved respirator, a	as conditions warrant.	
	(Specify Type):			
	Work/Hygienic/Maintenan Do n	ot take internally.		
			is material should be equipped with an eyewas	sh and a safety show
	Was	h thoroughly after handlir	ng.	
	No d	ata available.		
	Section	on 9. Physical a	and Chemical Properties	
.1	Information on Basic Physical a	and Chemical Propertie	S	
	Physical States:	[ ] Gas [ X ] Liqui	d [] Solid	
	Appearance and Odor:	A solution in chlorofor	m	
	pH:	No data.		
	Melting Point:	No data.		
	Melting Point: Boiling Point:	No data. No data.		
	-			
	Boiling Point:	No data.		
	Boiling Point: Flash Pt:	No data. No data.		
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits:	No data. No data. No data. No data available. LEL: No data.	UEL: No data.	
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas):	No data. No data. No data. No data available.		
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm	No data. No data. No data. No data available. LEL: No data.		
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm Hg):	No data. No data. No data available. LEL: No data. 160 MM_HG at 20		
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm Hg): Vapor Density (vs. Air = 1):	No data. No data. No data. No data available. LEL: No data. 160 MM_HG at 20		
	Boiling Point: Flash Pt: Evaporation Rate: Flammability (solid, gas): Explosive Limits: Vapor Pressure (vs. Air or mm Hg): Vapor Density (vs. Air = 1): Specific Gravity (Water = 1):	No data. No data. No data available. LEL: No data. 160 MM_HG at 20 No data. No data.		



	-	nition Pt:	No data.						
	Decom	position Tempera	ature: No data.						
	Viscosi	ty:	No data.						
9.2	Other In	formation							
	Percent	t Volatile:	No data.						
			Section 10. Stability and	d Reactiv	ity				
0.1	Reactiv	rity:	No data available.						
10.2	Stability	y:	Unstable [ ] Stable [ X ]						
10.3	Stability	y Note(s):	Stable if stored in accordance with inform	nation listed on	the product	insert.			
	Polyme	rization:	Will occur [ ] Will not occur [ X ]						
10.4	Conditi	ons To Avoid:	protect from air, light, and heat						
10.5	Incomp	atibility - Materia	<b>IIs</b> aluminum						
	To Avo	id:	lithium						
			magnesium						
			potassium						
			sodium/sodium oxides						
			strong bases						
			strong oxidizing agents						
10.6	Hazard	ous	carbon dioxide						
	Decom	position or	carbon monoxide						
	Byprod	ucts:	chlorine						
			hydrogen chloride gas						
			phosgene gas	phosgene gas					
			Section 11. Toxicologica	I Informat	ion				
11.1	Informa	ation on	The toxicological effects of this product h	ave not been t	horoughly st	udied.			
	Toxicol	ogical Effects:	Chloroform - Toxicity Data: Oral LD50 (ra	nt): 300 mg/kg;	Oral LD50 (	mouse): 36 mg	/kg; Skin LD5		
			(rabbit): > 20 gm/kg; Inhalation TCLO (hu	ıman): 5,000 n	ng/m3 (7m);	Inhalation LC5	0 (rat): 47,702		
			mg/m3 (4h);						
			Chloroform - Irritation Data: Skin (rabbit):	Chloroform - Irritation Data: Skin (rabbit):10 mg (24h) mild; Eye (rabbit): 20 mg (24h) moderate;					
	Chronic Toxicological Chloroform - Investigated as an agricu			ral chemical, d	lrug, mutage	n, primary irrita	int, reproductiv		
	Effects	:	effector and tumorigen.						
			Only select Registry of Toxic Effects of Chemical Substances (RTECS) data is presented here.						
			See actual entry in RTECS for complete						
	Chloroform RTECS Number: F			).					
	Carcinogenicity/Other		Chloroform - California Prop. 65 carcinogen.						
	Information:		Chloroform - IARC category 2B; NTP Carcinogen - reasonably anticipated;						
Carcinogenicity:		ty:	NTP? No IARC Monographs? Yes	OSHA Reg	gulated? No				
CAS # Hazardous Con		Hazardous Co	mponents (Chemical Name)	NTP	IARC	ACGIH	OSHA		
	NA	· · ·	Mixture 2 (plant, ovine)	n.a.	n.a.	n.a.	n.a.		
67	-66-3	Chloroform		Possible	2B	A3	n.a.		



Revision: 11/10/2019

	Section 12. Ecological Information							
12.1 Toxicity: Avoid release into the			to the environm	ent.				
			Runoff from fire	control or dilutic	on water may cause p	ollution.		
12.2	<b>.2 Persistence and</b> No data available.							
	Degrada	Degradability:						
12.3	<b>2.3 Bioaccumulative</b> No data available.							
	Potentia	al:	l:					
12.4	Mobility	in Soil:	No data availabl	e.				
12.5	<b>Results of PBT and vPvB</b> No data available.							
	assessn							
12.6	Other ad	dverse effects:	No data availabl	e.				
			Section	13. Dispos	al Considerat	ions		
13.1	Waste D	Disposal Method:	Dispose in acco	rdance with loca	al, state, and federal r	egulations.		
			Section	n 14. Tran	sport Informat	ion		
14.1	LAND T	RANSPORT (US D	ЮТ):					
D	OT Prope	r Shipping Name:	Chloroform	Solution				
D	OT Hazar	d Class:	6.1	POISON				
	N/NA Nun	nber:	1888		Packing Grou	ıp:	111	
			POISON 6	>				
14.1	LAND T	RANSPORT (Euro	pean ADR/RID):					
AI	DR/RID S	hipping Name:	Chloroform	Solution				
-	N Numbe		1888		Packing Grou	III		
	azard Cla		6.1 - POISC	DN				
14.3		ANSPORT (ICAO/I	-					
		Shipping Name:	Chloroform	Solution				
-	N Number azard Cla		1888 6.1 - POISC		Packing Group: IATA Classification:		III 6.1	
							0.1	
	Additional 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 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.					per IATA 2.6.10.		
			Section	15. Regu	atory Informat	tion		
EPA S	SARA (Sı	perfund Amendm	ents and Reauth	norization Act	of 1986) Lists	1	1	
CAS		Hazardous Com		-	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
	NA	Non-polar Lipid N	lixture 2 (plant, ov	/ine)	No	No	No	
67	-66-3	S6-3 Chloroform Yes 10000 LB Yes 10 LB Yes				Yes		
CAS	<b>#</b>	Hazardous Com	ponents (Chemi	cal Name)	Other US EPA or S	State Lists		
	NA	Non-polar Lipid N	lixture 2 (plant, ov	/ine)	CAA HAP,ODC: No PROP.65: No	o; CWA NPDES: No	; TSCA: No; CA	
67	-66-3	Chloroform			CAA HAP,ODC: H	AP: VHAP; CWA NF	PDES: Yes; TSCA: Yes	
	Multi-region format							



Page: 7 of 7

Revision: 11/10/2019

	- Inventory, 8A CAIR; CA PROP.65: Yes: Canc+RDTox.				
Regulatory Info Statement:	ormation	This SDS was prepared in accordance with 29 CFR 1910.1200 and Regulation (EC) No.1272/2008.			
Section 16. Other Information					
Revision Date:		11/10/2019			
Additional Infor	mation About	No data available.			
This Product:					
This Product:	y 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.			