MATERIAL SAFETY DATA SHEET

ECTION I.		
Manufacturers Name	OWENSBØRO GRAIN EDIBLE OILS, INC.	
Address	719 E. SECOND STREET	
City, State Zip Code	OWENSBORO, KY 42302-1787	
Phone No.	502-926-2032 Normal Business Hrs. 7 AM - 5 PM Mon-Fri,	
Emergency Phone No.	502-686-6630 (24 Hr. Coverage)	

Chemical Name: Glycerol ester of fatty acids

Formula: H₅C₃ (OOCRx)₃

Chemical Family: Vegetable Oil or Triglyceride

Trade Name: Soybean Salad Oil

TLV UNITS
Not Available; however LC ₅₀ has been established as being >2.01 mg/liter

Boiling Point (°F)	640°F	Specific Gravity (H₂O = 1)	0.925	
Vapor Pressure (mm Hg)	0.05 mm Hg [@] 308°C	% Volatile (By volume)	0.03%	
Vapor Density (Air = 1)	No difference from air at ambient temperature due to extremely low vapor pressure	Evaporation Rate (H₂O = 1)	Negligible at ambient temperature	
Solubility in Water	Negligible	Appearance & Odor	Clear yellow liquid having nearly bland aroma.	

Flash Point (Closed Cup Method)	630°F - 640°F	Hazard	Lower Limit	Upper Limit	
Extinguishing Media:	CO ₂ Extinguisher	Flammable Limits	690°F	700°F	
	:	Explosive Limits	_		

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SECTION V. HEALTH HAZARD DATA
Threshold Limit Values: Not available; however LC ₅₀ has been determined to be greater than 2.01 mg/liter.
Effects of Overdose or Overexposure: This oil has $LC_{50} > 30$ gm/Kg (in terms of oral toxicity) and is classified as non-toxic. This oil is not an eye imitant, nor a primary irritant, and is not a dermal toxicant.
Emergency & First Aid Procedure: None required on basis of test results.

Stability	Stable 🖂		Conditions to Avoid: Exposure to heat, light, and pro-oxidants was accelerate oxidation leading to rancidity (off-flavor).				
	Unstable						
Hazardous Polymerization	May Occur		Conditions to Avoid:				
	Will Not Occur	Ø					
Incompatibility (Macid content.	aterials to Avoid):	Hydroly	zation occurs in the presence of water causing an increase in free fatty				
Hazardous Decom	position Products: s aldehydes and keto	Comp	ete decomposition (in terms of oxidation products) would lead to the				

SECTION VII. SPILLS OR LEAKS PROCEDURES Steps to be taken in case of spill or leak: 1. Correct situation that resulted in loss. 2. Notify proper company personnel if loss was extensive. 3. If loss will contaminate the environment, the EPA should be notified. Waste Disposal Method: Can be biologically and chemically degraded.

SECTION VIII.	SPECIAL PROTEC	TION & PRE	CAUTIONS	S		
Ventilation	Local Exhaust	· · · · · · · · · · · · · · · · · · ·	·	Special		
	Mechanical			Other		
Personal Prote	ctive Equipment	Eyes	None	Res	Dirator (type) None	
		Gloves	None	Other		

Precautions (Handling, Storage, Other): Do not store in the presence of copper or copper alloys.

Material Safety Data Sheet
May be used to comply with
OSHA's Hazard Communication Standard,
29 CFR 1910.1200. Standard must be
consulted for specific requirements.

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U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072



/	OMB NO. 1218-0072
IDENTITY (As Used on Label and List) Soybean Oil	Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.
Section I	
Manufacturer's Name	Emergency Telephone Number
Owensboro Grain Company, Inc.	(502) 686-6523
Address (Number, Street, Cry, State, and ZIP Code) 719 East Second Street	Telephone Number for Information
/19 East Second Street	(502) 926-2032
P.O. Box 1787	Date Prepared
1,0,	Oct. 20, 1999
Owensboro, KY 42302	Signature of Preparer (optional)
	Gary R. Krieger, MD/MPH/DAGT
Section II — Hazardous Ingredients/Identity Informati	ion
lazardous Components (Specific Chemical Identity; Common Name(s)	Other Limits OSHA PEL . ACGIH TLV Recommended % (optional)
Soybean Oil CAS # 800-122-7	
	OSHA 15mg/m ³ 100
NEPA Hazard Classification	
Health (Blue) 0	
Flammability (Red) 1	
Reactivity (Yellow) O	
action III — Physical/Chamical Chamber 1	
ection III — Physical/Chemical Characteristics	
iling Point	Specific Gravity (H ₂ O = 1)
iling Point Not Available	0.925 at 20° C
Not Available por Pressure (mm Hg.)	0.925 at 20° C Metting Point
iling Point Not Available	0.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K
Not Available Por Pressure (mm Hg.) Not Available Por Density (Alii - 1) Not Available	0.925 at 20° C
Not Available por Pressure (mm Hg.) Not Available por Density (Alfi - 1) Not Available funility in Water Not Soluble: Liquid Surface Tens	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate = 1)
Not Available Por Pressure (mm Hg.) Not Available por Density (Alri - 1) Not Available Provided in Market Not Soluble: Liquid Surface Tens	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate - 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available Available Available Available Available Available Pale Yellow to Brownish — Yellow	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate - 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AlR - 1) Not Available Not Available Avai	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate - 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AlR - 1) Not Available Availabl	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate = 1) Less than 1 sign (Est.) 25 Dynes/cm at 20° C Liquid
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available Republicy in Water Not Soluble: Liquid Surface Tens pearance and Oder Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Foint (Method Used) 540° F (Closed Cup)	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate = 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AlR - 1) Not Available Availabl	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acetate = 1) Less than 1 sign (Est.) 25 Dynes/cm at 20° C Liquid
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available funcility in Water Not Soluble: Liquid Surface Tens pearance and Oder Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Poins (Method Used) 540° F (Closed Cup) inguishing Media Foam A Carbon Dioxide or Dry Chem	O.925 at 20° C Menting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acctate = 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available funcility in Water Not Soluble: Liquid Surface Tens pearance and Oder Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Poins (Method Used) 540° F (Closed Cup) inguishing Media Foam & Carbon Dioxide or Dry Chemedial Fire Fignting Procedures	O.925 at 20° C Menting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acctate = 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available funcility in Water Not Soluble: Liquid Surface Tens pearance and Oder Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Poins (Method Used) 540° F (Closed Cup) inguishing Media Foam & Carbon Dioxide or Dry Chemedial Fire Fignting Procedures	O.925 at 20° C Menting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acctate = 1)
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available Not Soluble: Liquid Surface Tens pearance and Oddr Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Point (Method Used) 540° F (Closed Cup) inguishing Media Foam A Carbon Dioxide or Dry Chem ectal Fire Fighting Procedures Class B Fire: Application of wat	O.925 at 20° C Menting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acctate = 1)
Not Available por Pressure (mm Hg.) Not Available por Density (Alfi - 1) Not Available Provided in the state of the s	O.925 at 20° C Metting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Pate Guryl Acetate = 1) Less than 1 Sign (Est.) 25 Dynes/cm at 20° C Liquid Flammable Limes LEL UEL Not Available Not
Not Available por Pressure (mm Hg.) Not Available por Density (AIR - 1) Not Available por Density (AIR - 1) Not Available Rubility in Water Not Soluble: Liquid Surface Tens pearance and Oder Pale Yellow to Brownish — Yellow ection IV — Fire and Explosion Hazard Data sn Point (Method Used) 540° F (Closed Cup) inquishing Media Foam & Carbon Dioxide or Dry Chem edial Fire Fighting Procedures Class B Fire: Application of wat will float on water. usual Fire and Explosion Hazards: None Pos	O.925 at 20° C Menting Point NA: Freezing Pt4° F = -20° C = 253° K Evaporation Rate (Buryl Acctate = 1)

Section V -	- Reactivity Data		7							•
Stability	Unstable		Conditions to	Avoid	Not	Applic	able			
	Stable Yes			-		присто			 	<u> </u>
Incompatibility	(Materials to Avoid)	<u> </u>	<u> </u>							
Hazardous Deco	imposition or Byprodu	cts			· · · · · · · · · · · · · · · · · · ·					
Hazardous	May Occur	Γ	Conditions to	Avoid						
Polymerization	Will Not Occur	-				····			 .	
Section VI -	 - Health Hazard	Data	l. <u></u>							
Route(s) of Entry		ation?	Yes		Skin?	V	<u> </u>	Ingestion?	V	
Health Hazards	(Acute and Chronic)	To.		Ness		Yes	- 4		Yes	
Inhalat	ing: Under		gestion:			•	a food.		_	
Skin/Ey	******						inhalati			
Carcinogenicity:	NTP	7	inse, pa	·	IARC Mo	uodiabhas Leise C	ontact;	OSHA Reg	ricant pulated7	<u>skin re</u> acti expected
	No							,		 -
Signs and Symp	toms of Exposure	Ata	nt Ameli	anhla	_					
		141	ot Appli	cable	•					
Medical Conditio	ns vated by Exposure	Al.	ot Appli			······································	<u> – </u>			
·	reted by Exposure	144	JE ADDET	cable				•		
Emergency and	First Aid Procedures	F,	ves: Fl	المقدد طمد	h		t least			
			yes. Ft	USII WICI	n water	r tor a	t teast	13 MINUE	<u> </u>	
Section VII -	- Precautions fo	r Saf	e Handling	and Use	<u> </u>					
Steps to Be Tak	en in Case Material is	Relez	sed or Spilled	No so	ecific	hazard	ls; mater	ial is no	on-haza	rdous:
if in m	ist form and	lev	els ace.			7		· · · · · ·		
				above, I	<i>y </i>	<u>, , , , , , , , , , , , , , , , , , , </u>	<u>,4.6 MG 00, 1</u>			
Waste Disposal I	Method Review	Loc	al requ	lations	hefore	class	ed-up mat	taciale	are int	roduced
into se	wer systems							<u>eer 1803 1</u>	<u> </u>	J. WHILEW
	e Taken in Handling		vina.	one	•		<u> </u>			
	"						•	·		
Other Precaution	s Soiled rag	S 01	ahsorb	ent mate	eriale	shoul d	not be l	kent undi	ar hiok	
tempera	ture, closed							Kept ond	11191	<u> </u>
	Control Meast	_			<u></u>			7.744		
Respiratory Prote	ection (Specify Type)	Nor	e-Unles	s Mist (Conditi	ions				
Ventilation	Local Exhaust					Special	Not And	al i a a b l a		
	Unider Extre Mechanical (General))			Onto	Other		<u>olicable</u>		
Protective Gloves			t Appli	caple	Eye P	rotection		olicable		
Other Protective	Not Ap Clothing or Equipmen				!		Safety	Glasses		
Work/Hygienic Pi				plicable						
		-	Not Ap	plicable						.491-329/45775
					Page 2			- u	_,u - U, 1746 o	

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