

SAFETY DATA SHEET

SDS ID NO.: 0349MAR019 **Revision Date:** 05/19/2015

1. IDENTIFICATION

Product Name: Marathon Petroleum Ester Bottoms

Synonym: Ester Bottoms; Fatty Acid Methyl Ester Distillation Bottoms

Chemical Family: Hydrocarbon Mixture

Recommended Use: Feedstock. Use Restrictions: All others.

Supplier Name and Address:

Cincinnati Renewable Fuels LLC A Subsidiary of Marathon Petroleum Corporation 4700 Este Ave Cincinnati, OH 45232

SDS information: 1-419-421-3070

Emergency Telephone: 1-877-627-5463

2. HAZARD IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous according to the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin sensitization Category 1B

Hazards Not Otherwise Classified (HNOC)

Not applicable

Label elements

EMERGENCY OVERVIEW

Warning

May cause an allergic skin reaction

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Appearance Thick Brown Liquid Physical State Liquid Odor Organic / Alcohol

Precautionary Statements - Prevention

Avoid breathing dust/fume/gas/mist/vapors/spray Wear protective gloves Contaminated work clothing should not be allowed out of the workplace

Precautionary Statements - Response

IF ON SKIN: Wash with plenty of soap and water If skin irritation or rash occurs: Get medical attention Wash contaminated clothing before reuse

Precautionary Statements - Storage

Not applicable

Precautionary Statements - Disposal

Dispose of contents/container at an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition Information:

Name	CAS Number	Weight %
Soybean Oil, Methyl Ester	67784-80-9	30-60
Soybean Oil	8001-22-7	10-40
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock	68918-38-7	5-15
Glycerides, Soya Dihydrogenated	68553-05-9	5-10
Glycerides Soya Mono-	68201-47-8	0.5-5
Sodium Methoxide	124-41-4	0-0.9

4. FIRST AID MEASURES

First Aid Measures

In case of accident or if you feel unwell, seek medical advice immediately (show directions General advice

for use or safety data sheet if possible).

Inhalation: Move victim to fresh air. Provide respiratory support, if necessary. Get medical attention if

cough or other respiratory symptoms develop.

Immediately wash exposed skin with plenty of soap and water while removing contaminated **Skin Contact:**

clothing and shoes. Get medical attention if irritation or rash occurs. Wash contaminated

clothing before re-use.

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be **Eye Contact:**

held away from the eyeball to ensure thorough rinsing. Gently remove contacts while

flushing. Get medical attention if irritation persists.

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Ingestion: If swallowed, DO NOT induce vomiting. If spontaneous vomiting occurs, keep head below

hips, or if patient is lying down, turn body and head to side to prevent aspiration and

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monitor for breathing difficulty. Get immediate medical attention.

Most important signs and symptoms, both short-term and delayed with overexposure

Adverse Effects: Contact may cause skin dermatitis and/or irritation. Preexisting skin conditions and/or

respiratory disorders may be aggravated by exposure to this product.

Indication of any immediate medical attention and special treatment needed

NOTES TO PHYSICIAN: The metabolism of fatty acid methyl ester may release free methanol in the body that could

induce metabolic acidosis with delayed effects. If a large amount of product is ingested, i.e. several ounces, consider the use of ethanol or fomepizole (Antizol) and hemodialysis. Consult standard literature or contact a poison control center for treatment details. INGESTION: Do not induce vomiting. Low viscosity product can be sucked into the lungs and cause damage after swallowing or vomiting. Contains small amounts of methanol

(0.2%).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

For small fires, Class B fire extinguishing media such as CO2, dry chemical, foam or water spray can be used. For large fires, water spray, fog or foam can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.

Unsuitable extinguishing media

No information available.

Specific hazards arising from the chemical

This product is not a flammable liquid per the OSHA Hazard Communication Standard, but may ignite and/or burn at temperatures exceeding the flash point. Spontaneous combustion may occur under high temperature, closed conditions if material is absorbed in various fiber matrices and oxygen is present (e.g. oily rags). Vapors are heavier than air and may accumulate in low lying areas. Vapors may accumulate in confined spaces. For additional fire related information, see NFPA 30 or the North American Emergency Response Guide 128.

Hazardous combustion products

Smoke, carbon monoxide, and other products of incomplete combustion.

Explosion data

Sensitivity to Mechanical Impact No. Sensitivity to Static Discharge No.

Special protective equipment and precautions for firefighters

Firefighters should wear full protective clothing and positive-pressure self-contained breathing apparatus (SCBA) with a full face-piece, as appropriate. Avoid using straight water streams. Water spray and foam (AFFF/ATC) must be applied carefully to avoid frothing and from as far a distance as possible. Avoid excessive water spray application. Keep surrounding area cool with water spray from a distance and prevent further ignition of combustible material. Keep run-off water out of sewers and water sources.

NFPA: Health 2 Flammability 1 Instability 0 Special Hazards -

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Keep public away. Isolate and evacuate area. Shut off source if safe to do so. Eliminate all

ignition sources. All contaminated surfaces will be slippery.

Protective Equipment: Use personal protection measures as recommended in Section 8.

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Advise authorities and National Response Center (800-424-8802) if the product has **Emergency Procedures:**

entered a water course or sewer. Notify local health and pollution control agencies, if

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appropriate.

Environmental precautions: Avoid release to the environment. Avoid subsoil penetration.

Methods and materials for

containment:

Contain liquid with sand or soil.

Methods and materials for cleaning Absorb small spills with absorbent material. Recover large spills into approved containers. Clean contaminated surface thoroughly. Use suitable absorbent materials such as vermiculite, sand, or clay to clean up residual liquids. Recover and return free product to proper containers.

7. HANDLING AND STORAGE

Safe Handling Precautions: Do not expose to heat, open flames, strong oxidizers or other sources of ignition. Avoid

repeated and prolonged skin contact. Do not cut, drill, grind or weld on empty containers since explosive residues may remain. Refer to applicable EPA, OSHA, NFPA and

consistent state and local requirements.

Keep in a cool, well-ventilated place. Keep containers dry and tightly closed to avoid **Storage Conditions:**

moisture absorption and contamination. Keep away from heat and sources of ignition. Store in properly closed containers that are appropriately labeled and in a cool, well-ventilated area. Store wiping rags in metal cans with tightly fitting lids. Corrosion and microbial growth are promoted by the presence of water. Avoid contamination by storing in water-free tanks with scheduled water drainage. Contact with copper/alloys, lead, tin and zinc may result in increased sediment and deposits that can plug filters. Degradation can be avoided by

preventing temperature extremes and the presence of air during storage.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	ACGIH TLV	OSHA PELS:	OSHA - Vacated PELs	NIOSH IDLH
Soybean Oil, Methyl Ester 67784-80-9	-	-	-	-
Soybean Oil 8001-22-7	-	-	5mg/m³ mist, respirable fraction TWA 15mg/m³ mist, total TWA	-
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock 68918-38-7	-	-	-	-
Glycerides, Soya Dihydrogenated 68553-05-9	<u>-</u>	-	-	-
Glycerides Soya Mono- 68201-47-8	-	-	-	-
Sodium Methoxide 124-41-4	-	-	-	-

Notes:

The manufacturer has voluntarily elected to provide exposure limits contained in OSHA's 1989 air contaminants standard in its SDSs, even though certain of those exposure limits were vacated in 1992.

Engineering measures:

Ensure adequate ventilation, especially in confined areas, Local or general exhaust required when using at elevated temperatures that generate vapors or mists. Use mechanical ventilation equipment that is explosion-proof.

Personal protective equipment

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Eye protection: Use goggles or face-shield if the potential for splashing exists.

Skin and body protection: Wear neoprene, nitrile or PVA gloves to prevent skin contact. Glove suitability is based on

workplace conditions and usage. Contact the glove manufacturer for specific advice on

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glove selection and breakthrough times.

Respiratory protection: Breathing apparatus needed when aerosol or mist is formed. Observe respirator assigned

protection factors (APFs) criteria cited in federal OSHA 29 CFR 1910.134. Self-contained

breathing apparatus should be used for fire fighting.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Thick Brown Liquid

Color Brown

Odor Organic / Alcohol
Odor Threshold No available data.

Property Values (Method)
Melting Point / Freezing Point
Initial Boiling Point / Boiling Range
Flash Point Stapporation Rate
Flammability (solid, gas)

Values (Method)
No available data.

177 °C / 350 °F
>132 °C / >270 °F
No available data.
Not applicable.

Flammability Limit in Air (%)

Upper Flammability Limit: No available data. Lower Flammability Limit: No available data.

Vapor Pressure 0.0025 mm Hg @ 50°C (122°F)

Vapor Density 3.17 (air=1)
Specific Gravity / Relative Density 1.20 @ 20°C

Water Solubility Miscible in water

Solubility in other solvents
Partition Coefficient
Decomposition temperature:
Nisciple in water
No available data.
No available data.
No available data.

pH: 9-10.5

No available data. **Autoignition Temperature Kinematic Viscosity** No available data. **Dynamic Viscosity** No available data. **Explosive Properties** No available data. **Softening Point** No available data. **VOC Content (%)** No available data. No available data. **Density Bulk Density** Not applicable.

10. STABILITY AND REACTIVITY

Reactivity The product is non-reactive under normal conditions.

<u>Chemical stability</u> The material is stable at 70°F, 760 mmHg pressure.

<u>Possibility of hazardous reactions</u>

None under normal processing.

<u>Hazardous polymerization</u> Will not occur.

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Conditions to avoid Excessive heat, sources of ignition, open flame. Water

contamination during storage.

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Incompatible materials Strong oxidizing agents.

Hazardous decomposition products

None known under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Potential short-term adverse effects from overexposures

Inhalation Excessive inhalation of mist may result in respiratory irritation. Overheating may produce

vapors which may cause respiratory irritation, dizziness and nausea.

Eye contact Produces little or no irritation on direct contact with the eye.

Skin contact May cause sensitization by skin contact. Prolonged and repeated contact may cause

defatting and drying of the skin and may lead to irritation and/or dermatitis.

Ingestion Ingestion of large amounts may cause gastrointestinal disturbances. Aspiration into lungs

may cause chemical pneumonia and lung damage.

Acute Toxicological data

Name	Oral LD50	Dermal LD50	Inhalation LC50
Soybean Oil, Methyl Ester 67784-80-9	>5000 mg/kg (Rat)	>5000 mg/kg (Rat)	-
Soybean Oil 8001-22-7	>2000 mg/kg	>2000 mg/kg	-
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock 68918-38-7	-	-	-
Glycerides, Soya Dihydrogenated 68553-05-9	-	-	-
Glycerides Soya Mono- 68201-47-8	-	-	-
Sodium Methoxide 124-41-4	2037 mg/kg (Rat)	>2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

SOYBEAN, METHYL ESTERS: Dermal sensitization study (Guinea Pigs) repeat insult patch procedure with induction and challenge patches indicated a positive sensitization response.

Adverse effects related to the physical, chemical and toxicological characteristics

Signs & Symptoms May cause allergic skin reaction. Repeated or prolonged skin contact may cause drying,

reddening, itching and cracking.

Sensitization May cause sensitization by skin contact. Not expected to be a respiratory sensitizer.

Mutagenic effects None known.

Carcinogenicity Cancer designations are listed in the table below.

Name	ACGIH (Class)	IARC (Class)	NTP	OSHA
Soybean Oil, Methyl Ester 67784-80-9	Not Listed	Not Listed	Not Listed	Not Listed
Soybean Oil 8001-22-7	Not Listed	Not Listed	Not Listed	Not Listed

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(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock 68918-38-7	Not Listed	Not Listed	Not Listed	Not Listed
Glycerides, Soya Dihydrogenated 68553-05-9	Not Listed	Not Listed	Not Listed	Not Listed
Glycerides Soya Mono- 68201-47-8	Not Listed	Not Listed	Not Listed	Not Listed
Sodium Methoxide 124-41-4	Not Listed	Not Listed	Not Listed	Not Listed

Reproductive toxicity

None known.

Specific Target Organ Toxicity (STOT) - single exposure

Not classified.

Specific Target Organ Toxicity (STOT) - repeated exposure

Not classified.

Aspiration hazard

Potential for aspiration if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity

This product is not expected to be harmful to aquatic organisms.

Name	Algae/aquatic plants	Fish	Toxicity to Microorganisms	Crustacea
Soybean Oil, Methyl Ester 67784-80-9	-	-	-	-
Soybean Oil 8001-22-7	-	-	-	-
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock 68918-38-7	-	-	-	-
Glycerides, Soya Dihydrogenated 68553-05-9	-	-	-	-
Glycerides Soya Mono- 68201-47-8	-	-	-	-
Sodium Methoxide 124-41-4	-	-	-	-

Expected to be readily biodegradable under aerobic conditions.

Bioaccummulation

Not expected to bioaccumulate in aquatic organisms.

Bioaccumulative Potential

If released to soil and water, this product is expected to be readily biodegradable under

aerobic conditions.

Mobility in soil

Considered to have high mobility in soil based on glyceride content. May partition into air,

soil and water.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Description of Waste Residues

Long-term storage may result in decomposition of the oil and could result in a rancid odor.

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Safe Handling of Wastes

Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required. Do not expose to heat, open flames, strong oxidizers or other sources of ignition.

Disposal of Wastes / Methods of Disposal

The user is responsible for determining if any discarded material is a hazardous waste (40 CFR 262.11). Dispose of in accordance with federal, state and local regulations.

Methods of Contaminated Packaging Disposal

Empty containers should be completely drained and then discarded or recycled, if possible. Do not cut, drill, grind or weld on empty containers since explosive residues may be present. Dispose of in accordance with federal, state and local regulations.

TRANSPORT INFORMATION

This material when transported via US commerce is NOT REGULATED by DOT **Transport Information:**

regulations.

DOT (49 CFR 172.101):

UN Proper shipping name: Not Regulated **UN/Identification No:** Not applicable Transport Hazard Class(es): Not applicable Packing group: Not applicable

TDG (Canada):

UN Proper shipping name: Not Regulated Not applicable **UN/Identification No:** Transport Hazard Class(es): Not applicable Packing group: Not applicable

15. REGULATORY INFORMATION

US Federal Regulatory Information:

This product and/or its components are listed on the TSCA US TSCA Chemical Inventory Section 8(b):

Chemical Inventory.

EPA Superfund Amendment & Reauthorization Act (SARA):

This product does not contain any component(s) included on EPA's Extremely Hazardous SARA Section 302:

Substance (EHS) List.

Name	CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPQs
Soybean Oil, Methyl Ester	NA
Soybean Oil	NA
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock	NA
Glycerides, Soya Dihydrogenated	NA
Glycerides Soya Mono-	NA
Sodium Methoxide	NA

SARA Section 304: This product may contain component(s) identified either as an EHS or a CERCLA

Hazardous substance which in case of a spill or release may be subject to SARA reporting

requirements:

Name	CERCLA/SARA - Hazardous Substances and their Reportable Quantities
Soybean Oil, Methyl Ester	NA
Soybean Oil	NA
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock	NA
Glycerides, Soya Dihydrogenated	NA
Glycerides Soya Mono-	NA
Sodium Methoxide	1000 lb final RQ 454 kg final RQ

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SARA: Acute Health Hazard

This product does not contain components, which if in exceedance of the de minimus SARA Section 313:

threshold, may be subject to the reporting requirements of SARA Title III Section 313 Toxic

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Release Reporting (Form R):

Name	CERCLA/SARA 313 Emission reporting:
Soybean Oil, Methyl Ester	None
Soybean Oil	None
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock	None
Glycerides, Soya Dihydrogenated	None
Glycerides Soya Mono-	None
Sodium Methoxide	None

State and Community Right-To-Know Regulations:

The following component(s) of this material are identified on the regulatory lists below:

Soybean Oil,	Methyl Ester
Louisiana	Right-To-Kno

Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous	Not Listed.

Substances List:

Illinois - Toxic Air Contaminants Not Listed. New York - Reporting of Releases Part 597 -Not Listed.

List of Hazardous Substances:

Soybean Oil

Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: Not Listed. Pennsylvania Right-To-Know: Present Massachusetts Right-To Know: Not Listed. Florida Substance List: Not Listed. Rhode Island Right-To-Know: Flammable Michigan Critical Materials Register List: Not Listed. Massachusetts Extraordinarily Hazardous Substances: Not Listed. California - Regulated Carcinogens: Not Listed. Pennsylvania RTK - Special Hazardous Not Listed.

Substances:

New Jersey - Special Hazardous Substances: Not Listed. New Jersey - Environmental Hazardous Not Listed.

Substances List:

Illinois - Toxic Air Contaminants Not Listed. New York - Reporting of Releases Part 597 -Not Listed.

List of Hazardous Substances:

(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock

Louisiana Right-To-Know: Not Listed. California Proposition 65: Not Listed. New Jersey Right-To-Know: Not Listed. Pennsylvania Right-To-Know: Not Listed. Massachusetts Right-To Know: Not Listed.

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Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
	Not Listed.
Pennsylvania RTK - Special Hazardous	NOI LISIEU.
Substances:	Niew I Sewand
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous	Not Listed.
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	
Glycerides, Soya Dihydrogenated	
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	Not Listed.
New Jersey - Special Hazardous Substances:	Not Listed.
	Not Listed.
New Jersey - Environmental Hazardous Substances List:	Not Listed.
	Not I lot o d
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	
Glycerides Soya Mono-	No altra di
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
New Jersey Right-To-Know:	Not Listed.
Pennsylvania Right-To-Know:	Not Listed.
Massachusetts Right-To Know:	Not Listed.
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.
Pennsylvania RTK - Special Hazardous	Not Listed.
Substances:	
New Jersey - Special Hazardous Substances:	Not Listed.
New Jersey - Environmental Hazardous	Not Listed.
Substances List:	
Illinois - Toxic Air Contaminants	Not Listed.
New York - Reporting of Releases Part 597 -	Not Listed.
List of Hazardous Substances:	Not Elotod.
Sodium Methoxide	
Louisiana Right-To-Know:	Not Listed.
California Proposition 65:	Not Listed.
	SN 1709
New Jersey Right-To-Know:	
Pennsylvania Right-To-Know:	Environmental hazard
Massachusetts Right-To Know:	Present Not Listed
Florida Substance List:	Not Listed.
Rhode Island Right-To-Know:	Not Listed.
Michigan Critical Materials Register List:	Not Listed.
Massachusetts Extraordinarily Hazardous Substances:	Not Listed.
California - Regulated Carcinogens:	Not Listed.

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Pennsylvania RTK - Special Hazardous Not Listed.

Substances:

New Jersey - Special Hazardous Substances: Flammable - fourth degree; reactive - second degree

New Jersey - Environmental Hazardous Not Listed.

Substances List:

Illinois - Toxic Air Contaminants

New York - Reporting of Releases Part 597 - 1000 lb RQ (air); 100 lb RQ (land/water)

List of Hazardous Substances:

Canada DSL/NDSL Inventory: This product and/or its components are listed either on the Domestic Substances List (DSL)

Not Listed.

or are exempt.

Canadian Regulatory Information: "This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the (M)SDS contains all the information required by the

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Controlled Products Regulations."

Name	Canada - WHMIS: Classifications of Substances:	Canada - WHMIS: Ingredient Disclosure:
Soybean Oil, Methyl Ester	D2B	1%
Soybean Oil	Uncontrolled product according to WHMIS classification criteria	
(C16-C18) and (C-18) Unsaturated Trialkyl Glyceride Soapstock	Uncontrolled product according to WHMIS classification criteria	
Glycerides, Soya Dihydrogenated	Uncontrolled product according to WHMIS classification criteria	
Glycerides Soya Mono-	Uncontrolled product according to WHMIS classification criteria	
Sodium Methoxide	B6,E	1%

NOTE: Not Applicable.

16. OTHER INFORMATION

Prepared By Toxicology and Product Safety

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Revision Note: Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is intended as guidance for safe handling, use, processing, storage, transportation, accidental release, clean-up and disposal and is not considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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