



# Material Safety Data Sheet

NFPA	WHMIS	Personal Protective Equipment	Transport Symbol

Preparation Date 30-Oct-2009

Revision Date: 05-Jan-2010

Revision Number 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Raw Linseed Oil

**Product Code:** 001010

**Synonyms:**  
Degummed Linseed Oil

**Use of the Substance / Preparation:**  
Core oils, caulking compounds, paints, tempering oil, etc

**Contact Manufacturer:**  
ADM Specialty Oils & Fats  
126 La Grange St.  
Red Wing, MN 55066  
+1-651-388-7111

**Emergency Telephone Number:**  
Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

SPONTANEOUS COMBUSTION (fire) may result from oil soaked materials such as rags, steel wool, paper, and clothing. Place soaked materials in a sealed, water filled, metal container to prevent this. May cause irritation of respiratory tract. May cause skin irritation and/or dermatitis.

**Appearance** Clear Amber

**Physical State** Liquid

**Odor** Characteristic

### Potential Health Effects

#### Principle Routes of Exposure

##### Acute Effects

###### Eyes

###### Skin

###### Inhalation

###### Ingestion

Eye contact, Skin contact, Inhalation (as mist), Ingestion.

Contact with eyes may cause irritation.

Prolonged skin contact may cause skin irritation.

Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Overexposure may cause: Gastrointestinal disturbance.

##### Chronic Effects

##### Aggravated Medical Conditions

##### Potential Environmental Effects

##### Toxicological information

None known.

No information available.

See Section 12 for additional ecological information.

See Section 11 for additional toxicological information.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Common Name** Raw Linseed Oil  
**Chemical Family** Oil

**Non-hazardous Components**

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Linseed oil	8001-26-1	100	no

## 4. FIRST AID MEASURES

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician.

**Skin Contact** Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. Remove and wash contaminated clothing before re-use.

**Inhalation** Move to fresh air in case of accidental inhalation of vapours or decomposition products. If symptoms persist, call a physician.

**Ingestion** Consult a physician if necessary. Do not induce vomiting. Clean mouth with water and afterwards drink plenty of water. If possible drink milk afterwards. Never give anything by mouth to an unconscious person.

**Notes to Physician** Treat symptomatically

## 5. FIRE-FIGHTING MEASURES

**Flammable Properties**

Material may pose fire hazard because it is dispersed (or spread) by water.

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO<sub>2</sub>). Foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media  
Hazardous Combustion Products**

Do not use a solid water stream as it may scatter and spread fire. Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>), Thermal decomposition can lead to release of irritating gases and vapours.

**Explosion Data**

**Sensitivity to mechanical impact**  
**Sensitivity to static discharge**  
**Specific Hazards Arising from the Chemical**

No information available.

No information available.

Risk of ignition. Rags and other materials containing this product may heat and spontaneously ignite, if exposed to air. Store wiping rags and similar materials in metal cans with tightly fitting lids. Cool closed containers exposed to fire with water spray.

**Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**

**Health** 1

**Stability and Reactivity** 0

**Flammability** 1

**Physical hazard** -



## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment. Remove all sources of ignition. Avoid high pressure washing or generation of aerosols. Material can create slippery conditions.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.
<b>Methods for Clean-up</b>	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.
<b>Other Information</b>	Oil soaked materials may spontaneously combust.

## 7. HANDLING AND STORAGE

<b>Handling</b>	Ensure adequate ventilation. Do not use pressure to empty drums. Avoid breathing vapors or mists. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use.
<b>Storage</b>	Store in well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	MEXICO
vegetable oil mist	TVL: 10 mg/m(3)	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>		TWA: 10 mg/m <sup>3</sup>

### Legend

ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values. OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits. TWA - Time weighted average. MEXICO - Mexico Occupational Exposure Limits.

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits. However it is the duty of the user to verify this and follow given exposure limits at the workplace. Ensure that eyewash stations and safety showers are close to the workstation location.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection.</b>	If splashes are likely to occur, wear goggles.
<b>Skin and Body Protection</b>	Impervious gloves
<b>Respiratory Protection</b>	In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Clear Amber	<b>Physical State</b>	Liquid
<b>Odor</b>	Characteristic	<b>Odor Threshold</b>	No information available
<b>Flash Point</b>	> 99°C / 210°F	<b>Autoignition Temperature</b>	> 344°C / 651°F
<b>Boiling point</b>	No information available	<b>Melting/Freezing Point</b>	No information available
<b>Flammability Limits in Air</b>	No information available	<b>Explosion Limits</b>	No information available
<b>pH</b>	No information available	<b>Vapor Pressure</b>	No information available
<b>Water Solubility</b>	Negligible	<b>Specific Gravity</b>	0.93 @ 25°C / 77°F
<b>Evaporation Rate</b>	Nonvolatile	<b>Vapor Density</b>	Nonvolatile
<b>Viscosity</b>	A (Gardner Scale)		

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under normal conditions
<b>Conditions to Avoid</b>	Keep away from open flames, hot surfaces and sources of ignition. Rags and other materials containing this product may heat and spontaneously ignite, if exposed to air. Store wiping rags and similar materials in metal cans with tightly fitting lids.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	No information available.
<b>Possibility of Hazardous Reactions</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### Product Information

**LD50 Oral:** No information available  
**LD50 Dermal:** No information available  
**LC50 Inhalation:** No information available

#### Toxicology data for the components

No information available

### Chronic Effects

#### Carcinogenicity

There are no known carcinogenic chemicals in this product.

#### Legend

**OSHA: (Occupational Safety & Health Administration)**

Not Listed

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

Not Listed

**NTP: (National Toxicity Program)**

Not Listed

**Mexico: (Official Mexican Norm NOM-010-STPS-1999)**

Not Listed

**IARC: (International Agency for Research on Cancer)**

Not Listed

## 11. TOXICOLOGICAL INFORMATION

<b>Subchronic Toxicity</b>	No information available.	<b>Irritation</b>	No information available.
<b>Corrosivity</b>	No information available.	<b>Sensitization</b>	No information available.
<b>Neurological Effects</b>	No information available.	<b>Mutagenic Effects</b>	No information available.
<b>Reproductive Effects</b>	No information available.	<b>Developmental Effects</b>	No information available.
<b>Teratogenicity</b>	No information available.	<b>Target Organ Effects</b>	No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Contains no substances known to be hazardous to the environment. Contains no substances known to be not degradable in waste water treatment plants.

<b>Persistence/Degradability</b>	Readily biodegradable.
<b>Bioaccumulation/ Accumulation</b>	No information available.
<b>Mobility</b>	The product is insoluble and floats on water.

## 13. DISPOSAL CONSIDERATIONS

<b>Waste Disposal Methods</b>	Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction.
<b>Contaminated Packaging</b>	Empty containers should be taken for local recycling, recovery or waste disposal. Oil soaked materials may spontaneously combust. Place soaked materials in a sealed, water filled, metal container to prevent this.

## 14. TRANSPORT INFORMATION

### Domestic transport regulations (USA)

DOT Not regulated

### Domestic transport regulations (Canada)

TDG Not regulated

### Domestic transport regulations (Mexico)

MEX Not regulated

### International transport regulations

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

**International Inventories**

The components of this product are reported in the following inventories:

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	AICS	ENCS	CHINA	PICCS	KECL	NZLoC
Linseed oil	Yes	Yes	No	Yes 232-278-6	No	Yes	No	Yes	Yes	Yes KE-22010	Yes

**Legend**

TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA). DSL - Domestic Substance List (Canada). NDSL - Non Domestic Substances List (Canada). EINECS - European Inventory of Existing Commercial Chemical Substances (EU). ELINCS - European List of Notified Chemical Substances (EU). AICS - Australian Inventory of Chemical Substances (Australia). ENCS - Existing and New Chemical Substances (Japan). CHINA - Chinese Inventory of Existing Chemical Substances (China). PICCS - Inventory of Chemicals and Chemical Substances (Philippines). KECL - Korean Existing and Evaluated Chemical Substances (Korea). NZLoC - New Zealand Inventory of Chemicals (New Zealand).

**USA****Federal Regulations****Ozone Depleting Substances:**

No Class I or Class II material is known to be used in the manufacture of, or contained, in this product.

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product is not known to contain any chemicals which are subject to the reporting requirements of the Act or regulations contained in 40 CFR 372.

**SARA 311/312 Hazardous Categorization**

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product is not known to contain any HAPS.

**State Regulations****California Proposition 65**

Proposition 65 chemicals are not expected to be found in this product above those naturally present in their agricultural source. Proposition 65 exempts naturally occurring listed chemicals from an obligation to label.

**State Right-to-Know**

## Component Information

Chemical Name	Weight %	Illinois	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Linseed oil	100	No	No	No	Yes	Yes Flammable

**Canada****WHMIS Product Classification**

Not a WHMIS controlled product.

**WHMIS Ingredient Disclosure List IDL**

Component Information

Chemical Name	Weight %	WHMIS IDL	Threshold limits
Linseed oil	100		1%

**(NPRI) Canadian National Pollutant Release Inventory**

Component Information

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

**Mexico****Mexico - Grade**

Slight risk, Grade 1

## 16. OTHER INFORMATION

**Prepared By**

ADM Oils &amp; Fats

**Preparation Date**

30-Oct-2009

**Revision Date:**

05-Jan-2010

**Revision Summary**

This data sheet contains changes from the previous version in section(s) 3 and 8. This version replaces all previous versions.

## Disclaimer

The information provided on this (M)SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

**End of (M)SDS**