



# (Material) Safety Data Sheet

| Transport Symbol | WHMIS          | NFPA | Personal Protective Equipment |
|------------------|----------------|------|-------------------------------|
| Not controlled   | Not controlled |      |                               |

Original Preparation Date: 25-Sep-2012

Revision Date: 07-Jan-2014

Revision Number: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

**Product Name:**  
RBD Soybean Oil with TBHQ and Methylsilicone

**Product Code:**  
860703-TBHQ / SILICONE

**Synonyms:**  
Soybean Oil

**Contact Manufacturer:**  
Archer Daniels Midland Company  
4666 Faries Parkway  
Decatur, IL 62526, USA  
Telephone Number: (+1) 217-424-5200  
**Emergency response telephone number:**  
Chemtrec 1-800-424-9300 (CCN 1635)

**Use of the Substance / Preparation:**  
Food Ingredient

## 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, metal container to prevent this. The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance**  
Light yellow to Dark yellow

**Physical State**  
Liquid

**Odor**  
Slight Vegetable oil

This product is NOT classified as hazardous according to 29 CFR 1910, amended to conform to the United Nations' Globally Harmonized System of Classification and Labelling of Chemicals (OSHA / GHS); SOR/88-66, the Canadian Controlled Products Regulations (CPR); and/or NOM-002-SCT-2003 (Mexico).

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical nature of the preparation** Substance  
**Chemical Family** Oil

### Non-hazardous Components

| Chemical Name | CAS-No    | Weight % | North American Hazard Indicator |
|---------------|-----------|----------|---------------------------------|
| Soybean oil   | 8001-22-7 | 99-100   | None known                      |

Also contains: TBHQ. Methylsilicone.

## 4. FIRST AID MEASURES

### **Description of first aid measures**

**General Advice** When symptoms persist or in all cases of doubt seek medical advice.

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

**Skin Contact** Wash off immediately with soap and plenty of water.

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

**Ingestion** No special measures required. Health injuries are not known or expected under normal use.

### **Most important symptoms and affects, both acute and delayed**

**Eyes** Not expected to pose health issues for the eye.

**Skin** Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.

**Inhalation** Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". May cause irritation of respiratory tract.

**Ingestion** Health injuries are not known or expected under normal use. Over exposure may cause: Gastrointestinal disturbance.

### **Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### **Flammable Properties**

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

### **Extinguishing media**

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Alcohol-resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

### **Special hazards arising from the substance or mixture**

**Hazardous Combustion Products**

Thermal decomposition produces acrolein, Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>).

**Specific Hazards Arising from the Chemical**

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.

**Sensitivity to mechanical impact**

No information available.

**Sensitivity to static discharge**

No information available.

### **Advice for fire-fighters**

**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 0  
Flammability 1

Stability and Reactivity 0  
Physical hazard None known



## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions

Remove all sources of ignition. Avoid high pressure washing or generation of aerosols. Material can create slippery conditions.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Try to prevent the material from entering drains or water courses.

### Methods for Clean-up

Dam up. Soak up with inert absorbent material. Use dry spill kit material or sand, collect in appropriate containers. For disposal information see section 13. Clean contaminated surface thoroughly.

### Other Information

Oil soaked materials may spontaneously combust

## 7. HANDLING AND STORAGE

### Handling

Ensure adequate ventilation. Do not use pressure to empty drums.

### Storage

Store in well-ventilated place. Keep away from heat and sources of ignition.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Limits

| Chemical Name      | ACGIH TLV                     | OSHA PEL  | MEXICO   | NIOSH  |
|--------------------|-------------------------------|---|--|--|
| vegetable oil mist | TVL: 10 mg/m <sup>3</sup> (3) | TWA: 5 mg/m <sup>3</sup> mist, respirable fraction<br>TWA: 15 mg/m <sup>3</sup> mist, total | TWA: 10 mg/m <sup>3</sup> except irritant oils | TWA: 10 mg/m <sup>3</sup> total mist<br>TWA: 5 mg/m <sup>3</sup> respirable mist |

### Engineering Measures

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.

### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice.

### Personal Protective Equipment

#### Eye/face Protection.

If exposed to airborne mist, or if splashing is possible, appropriate safety glasses with side-shields or safety goggles are recommended.

#### Skin and Body Protection

Oil resistant gloves are recommended. Appropriate body protection should be selected based on activity and possible exposure.

#### Respiratory Protection

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Light yellow to Dark yellow

### Physical State

Liquid

### Odor

Slight Vegetable oil

### Odor Threshold

No information available

### pH

No information available

### Flash Point

Approx. 321 °C / 610 °F

### Autoignition Temperature

No information available

### Boiling point

No information available

### Melting/Freezing Point

Approx. -20 °C / -4 °F

### Decomposition temperature

No information available

### Oxidizing Properties

No information available

|  |                          |
|--|--------------------------|
| Water Solubility                           | Insoluble                |
| Evaporation Rate                           | No information available |
| Vapor Pressure                             | No information available |
| Vapor Density                              | No information available |
| Specific Gravity / Relative Density        | Approx. 0.9              |
| Partition Coefficient<br>(n-octanol/water) | No information available |

## 10. STABILITY AND REACTIVITY

**Stability** Stable under normal conditions.

**Possibility of Hazardous Reactions** Hazardous polymerization does not occur.

**Conditions to Avoid** Keep away from open flames, hot surfaces and sources of ignition.

**Incompatible Materials** No materials to be especially mentioned.

**Hazardous Decomposition Products** No information available.

## 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

|                                   |  |
|-----------------------------------|--|
| Acute toxicity                    | Based on available data, no evidence of acute toxicity.  |
| Skin corrosion/irritation         | Based on available data, not, or only slightly irritating.   |
| Serious eye damage/eye irritation | Based on available data, no evidence of serious eye damage / irritation.   |
| Respiratory or skin sensitisation | Based on available data, not expected to be a skin or respiratory sensitisier.   |
| Germ cell mutagenicity            | Based on available data, the classification criteria are not met.  |
| Carcinogenicity                   | Based on available data, the classification criteria are not met. No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen. |
| Reproductive toxicity             | Based on available data, no evidence of reproductive toxicity  |
| STOT - single exposure            | Based on available data, the classification criteria are not met.  |
| STOT - repeated exposure          | Based on available data, the classification criteria are not met.  |
| Aspiration hazard                 | Based on available data, no known aspiration hazard.   |

### Potential health effects

|            |   |
|------------|---|
| Eyes       | Not expected to pose health issues for the eye.   |
| Skin       | Prolonged or excessive contact with skin may result in mild irritation, however, significant health injuries are not expected under normal use.   |
| Inhalation | Health injuries are not known or expected under normal use. When in the form of an airborne mist, refer to section 8 of this sheet for exposure limits pertaining to "vegetable oil mist". May cause irritation of respiratory tract. |
| Ingestion  | Health injuries are not known or expected under normal use. Over exposure may cause: Gastrointestinal disturbance.  |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not classified for aquatic toxicity.

**Persistence/Degradability**

**Mobility**

No information available.

The product is insoluble and floats on water.

### 13. DISPOSAL CONSIDERATIONS

Whenever possible, as rules and regulations allow, please recycle or manage materials to minimize waste.

**Waste Disposal Methods**

Dispose of in compliance with the laws and regulations pertaining to this product in your jurisdiction. Oil soaked materials may spontaneously combust and should be properly managed to avoid ignition and heat sources or oxygen rich environments. Collect and store soaked materials in closed, metal containers to help prevent combustion.

**Contaminated Packaging**

Empty containers should be decontaminated and taken for local recycling, recovery or waste disposal.

### 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<br>ISHL   | CHINA | PICCS | KECL            | NZIoC |
|-------------------------------|------|-----|------|------------------|--------|------|----------------|-------|-------|-----------------|-------|
| Soybean oil                   | Yes  | Yes | No   | Yes<br>232-274-4 | No     | Yes  | No             | Yes   | Yes   | Yes<br>KE-31718 | Yes   |
| tert-Butylhydroquinone (TBHQ) | Yes  | Yes | No   | Yes<br>Present   | No     | Yes  | Yes<br>Present | Yes   | Yes   | Yes<br>Present  | Yes   |
| Dimethyl silicone             | No   | Yes | No   | No               | No     | Yes  | No             | Yes   | Yes   | No              | Yes   |

**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.

**CERCLA/SARA 103-302**

Sections 103-302 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 103-302.

**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 63)**

This product is not known to contain any HAPs.

**State Regulations****State Right-to-Know**

Component Information. No known components subject to "Right-To-Know" legislation in the following States: Massachusetts, Minnesota, New Jersey, Pennsylvania.

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

Exempt: Food Product per Hazardous Products Act Part II Controlled Products Section 12.

**WHMIS Ingredient Disclosure List IDL**

No known component is listed on the WHMIS ingredients disclosure list.

**(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. This product has not yet been fully evaluated and classified for Canada**

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

Slight risk, Grade 1

**16. OTHER INFORMATION**

**Prepared By:** ADM Oils  
**Original Preparation Date:** 25-Sep-2012  
**Revision Date:** 07-Jan-2014  
**Revision Number:** 1  
**Reason for revision:** New SDS format. This version replaces all previous versions.

**Abbreviations and acronyms**

AICS - Australian Inventory of Chemical Substances (Australia)  
ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values  
CAS - Chemical Abstract Service  
CHINA - Chinese Inventory of Existing Chemical Substances (China)  
DOT - U.S. Department of Transportation  
DSL - Domestic Substance List (Canada)  
EINECS - European Inventory of Existing Commercial Chemical Substances (EU)  
ELINCS - European List of Notified Chemical Substances (EU)  
ENCS - Existing and New Chemical Substances (Japan) / ISHL - Industrial Health and Safety Law (Japan)  
GHS - Globally Harmonized System of Classification and Labelling of Chemicals  
IATA - International Air Transport Association Dangerous Goods Regulations  
ICAO - International Civil Aviation Organisation  
IMDG - International Maritime Dangerous Goods Code  
IMO - International Maritime Organization  
LC50 - Lethal concentration that produces fatalities in 50% of a given test population  
LD50 - Median lethal dose of a given test population  
MEX - NOM-002-SCT/2003 List of Hazardous Substances and Materials Most Commonly Transported  
MEXICO - Mexico Occupational Exposure Limits  
NDSL - Non Domestic Substances List (Canada)  
NFPA - National Fire Protection Association  
NIOSH - National Institute of Occupational Safety and Health  
NZIoC - New Zealand Inventory of Chemicals (New Zealand)  
OSHA - Occupational Safety & Health Administration  
OSHA PEL - Occupational Safety and Health Administration Permissible Exposure Limits  
PICCS - Inventory of Chemicals and Chemical Substances (Philippines)  
STOT - Specific Target Organ Toxicity  
TDG - Transportation of Dangerous Goods (Transport Canada)  
TSCA - Toxic Substances Control Act, Section 8(b) Inventory (USA)  
TWA - Time Weighted Average: Average concentration that should not be exceeded during a work day (usually 8-hours)  
WHMIS - Workplace Hazardous Materials Information System

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 sheet