1. Identification

Product Name: Refined, Bleached and Deodorized Soybean Oil
Use of the Substance / Preparation: Food Ingredient, Animal Feed, Industrial use.

Supplier: 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)

Product Code: 860700

Product Name: Refined, Bleached and Deodorized Soybean Oil
Product Code: 860700

2. Hazard(s) 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 | Physical State | Odor
--- | --- | ---
Light yellow | Liquid | Slight Vegetable oil

This product is NOT classified as hazardous according to the criteria contained in the Hazard Communication Standard 29 CFR 1910.1200 (known as HCS 2012) or the Hazardous Products Regulations SOR/2015-17 (known as WHMIS 2015). However, vegetable oil (in mist form) is known to be listed as an OSHA 29 CFR 1910.1000 Air Contaminant. Occupational exposure limits are subsequently provided in section 8 of this SDS.

3. Composition/information on ingredients

Chemical Family: Oil Unknown, or Variable Composition, or of Biological Origin (UVCB)
Description: Soybean Oil

Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>North American Substance Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean oil</td>
<td>8001-22-7</td>
<td>99-100</td>
<td>None known</td>
</tr>
</tbody>
</table>

4. First-aid measures

**Description of first aid measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids.

**Skin Contact** Wash off with warm water and soap.

**Inhalation** Move to fresh air.

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

**General Advice** No hazards which require special first aid measures. When symptoms persist or in all cases of doubt seek medical advice.

**Most important symptoms and effects, 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”. Excessive inhalation of mist may result in respiratory irritation.

**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** Special forms of treatment and immediate medical attention are not specified. 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. Dry chemical powder. Carbon dioxide (CO\textsubscript{2}). Foam. Sand. Fog. 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 can lead to release of irritating gases and vapors, Acrolein, Carbon monoxide (CO), Carbon dioxide (CO\textsubscript{2}).

**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**

<table>
<thead>
<tr>
<th>Health</th>
<th>Stability and Reactivity</th>
<th>Flammability</th>
<th>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>1</td>
<td>None known</td>
</tr>
</tbody>
</table>
6. Accidental release measures

Personal Precautions, Protective Equipment, and Emergency Procedures
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 allow product to reach soil, sewage system or any water course.

Methods and Materials for Containment and Cleaning 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. Collect all soaked materials in suitable, closed containers as they may heat and spontaneously ignite, if exposed to air.

Other Information
Oil soaked materials may spontaneously combust.

7. Handling and storage

Handling
Ensure adequate ventilation. Do not use pressure to empty drums. Keep away from open flames, hot surfaces and sources of ignition.

Storage
Keep in a cool sheltered place. To maintain product quality, do not store in heat or direct sunlight.

8. Exposure controls/Personal protection

Exposure Limits
When in the form of an airborne mist containing vegetable oil, observe the OSHA and ACGIH established limits for "vegetable oil mist". OSHA PEL: [15 mg/m^3 (mist) 8-hr TWA], [5 mg/m^3 mist (respirable) 8-hr TWA]. ACGIH TLV: [10 mg/m^3 (mist) 8-hr TWA].

Biological Limit Values
No biological limit values have been listed for the component(s) of this product.

Appropriate Engineering Controls
Ensure adequate ventilation, especially in confined areas. Apply technical measures to comply with the occupational exposure limits.

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. Also take into consideration the specific local conditions under which the product is used.

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

9. Physical and chemical properties

Appearance
Light yellow

Physical State
Liquid

Odor
Slight Vegetable oil

Odor Threshold
Not applicable

pH
Not applicable

Flash Point
Approx. 321 °C / 610 °F

Autoignition Temperature
Not auto-flammable

Boiling point
No information available

Melting/Freezing Point
Approx. -20 °C / -4 °F
10. Stability and reactivity

Stability  Stable under normal conditions.
Possibility of Hazardous Reactions  None under normal processing.
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  Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide (CO). Carbon dioxide (CO₂). Acrolein.

11. Toxicological information

<table>
<thead>
<tr>
<th>Information on toxicological effects</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>Based on available data, no evidence of acute toxicity.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Based on available data, not, or only slightly irritating.</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Based on available data, no evidence of serious eye damage / irritation.</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Based on available data, not expected to be a skin or respiratory sensitizer.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Based on available data, no evidence of carcinogenicity.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Based on available data, no evidence of reproductive toxicity.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>Based on available data, the classification criteria are not met.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Based on available data, no known aspiration hazard.</td>
</tr>
</tbody>
</table>

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". Excessive inhalation of mist may result in respiratory irritation.
- 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  Readily biodegradable
Mobility  The product is insoluble and floats on water.
PBT and vPvB assessment  This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
Other adverse effects  Nothing specific known.
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 Marpol Annex II and Annex III (bulk) noxious liquid substance: pollution category Y, ship category 2(k). Packaged: not listed. If transported by vessel in bulk, transport according to Annex II of MARPOL 73 / 78 and the IBC code.

15. Regulatory information

**International Inventories**

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>ICL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean oil</td>
<td>Yes ACTIVE</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>232-274-4</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ENCS ISHL</th>
<th>CHINA</th>
<th>PICCS</th>
<th>KECL</th>
<th>Taiwan</th>
<th>Turkey</th>
<th>NZIoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean oil</td>
<td>Exempt (substance occurring in nature)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes KE-31718</td>
<td>Yes</td>
<td>Yes 232-274-4</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**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
Refer to the OSHA hazard classification(s) provided in section 2 of this SDS.

State Regulations

California Proposition 65
This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65 at levels which would require a warning under the statute.

State Right-to-Know
Component Information.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Weight %</th>
<th>Massachusetts</th>
<th>Minnesota</th>
<th>New Jersey</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soybean oil</td>
<td>99-100</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

(NPRI) Canadian National Pollutant Release Inventory
No known component is listed on NPRI.

16. Other information

Prepared By: ADM - Product Regulatory Affairs
Revision Date: 31-Oct-2019
Revision Number: 3
Reason for revision: This data sheet contains changes from the previous version in section(s) 15. This version replaces all previous versions.

Abbreviations and acronyms
A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen
A4 - Not classifiable as a human carcinogen
ACGIH TLV - American Conference of Governmental Industrial Hygienists Threshold Limit Values
CAS - Chemical Abstract Service
Ceiling - Ceiling Limit Value: Concentrations that should never be exceeded at any given time (instantaneous)
CHINA - Chinese Inventory of Existing Chemical Substances (China)
CLP - Classification, Labelling and Packaging, Regulation (EC)1272/2008
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
Delisted - Substances Delisted from Report on Carcinogens
DNEL - Derived No Effect Level
DOT - U.S. Department of Transportation
DSL - Domestic Substance List (Canada)
EC - European Commission
The information provided on this 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