1. Product Description

Product Name:
Tallow

Use of the Substance / Preparation:
Ingredient in Food, Soap Making, Cosmetic Making

Contact Manufacturer:
Essential Depot Inc
2029 Hwy 27 S, Sebring, FL 33825
Phone: 866-840-2495
Chemtrec Emergancy Phone: 800-262-8200

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.

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). 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

Non-hazardous Components

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>North American Hazard Indicator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beef Tallow</td>
<td>61789-97-7</td>
<td>99-100</td>
<td>None known</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

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

Eye Contact  Rinse thoroughly with plenty of water, also under the eyelids.
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$_2$). 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$_2$), Smoke, Fumes.

**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>Physical hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>None known</td>
</tr>
<tr>
<td>Flammability</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions**
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 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. 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
As an airborne mist containing vegetable oil, exposure limits pertaining to "vegetable oil mist" have been provided below

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>MEXICO</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tallow</td>
<td>TVL: 10 mg/m(3)</td>
<td>TWA: 5 mg/m³ mist, respirable fraction TWA: 15 mg/m³ mist, total</td>
<td>TWA: 10 mg/m³ except irritant oils</td>
<td>TWA: 10 mg/m³ total mist TWA: 5 mg/m³ respirable mist</td>
</tr>
</tbody>
</table>

Engineering Measures
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Light yellow</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Slight Vegetable oil</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Approx. 321 °C / 610 °F</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not auto-flammable</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Approx. 40 °C / 104 °F</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not expected to be oxidising</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Soluble in many organic solvents</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific Gravity / Relative Density</td>
<td>Approx. 0.9 (H₂O=1)</td>
</tr>
<tr>
<td>Partition Coefficient (n-octanol/water)</td>
<td>No information available</td>
</tr>
</tbody>
</table>
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 leads to formation of acrolein, Carbon monoxide (CO), Carbon dioxide (CO₂), Smoke, Fumes.

11. TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>Acute toxicity</th>
<th>Based on available data, no evidence of acute toxicity.</th>
</tr>
</thead>
<tbody>
<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 sensitiser.</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. Overexposure 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.

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
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>EINECS</th>
<th>ELINCS</th>
<th>AICS</th>
<th>ENCS</th>
<th>CHINA</th>
<th>PICCS</th>
<th>KECL</th>
<th>NZIoC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tallow</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</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
- 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

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.

<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>Tallow</td>
<td>99-100</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Canada

WHMIS Product Classification
Not a WHMIS controlled product.

WHMIS Ingredient Disclosure List IDL
No known component is listed on the WHMIS ingredients disclosure list.
Mexico - Grade
Slight risk, Grade 1

16. OTHER INFORMATION

Prepared By: Essential Depot Inc
Original Preparation Date: 09-18-2015

The user of the product is solely responsible for compliance with all laws and regulations applying to the use of the products, including intellectual property rights of third parties. As with any manufacturing process, Essential Depot Inc. strongly recommends small lab scale testing for evaluation purposes prior to full commercial manufacturing. The information on the Essential Depot Inc. website is obtained from current and reliable sources but makes no representation as to its comprehensiveness or accuracy. Nothing contained herein should be considered as a recommendation by Essential Depot Inc. as to the fitness for any use. As the ordinary or otherwise use(s) of this product is outside the control of Essential Depot Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained. The liability of Essential Depot Inc. is limited to the value of the goods and does not include any consequential loss. Essential Depot Inc. shall not be liable for any errors or delays in the content, or for any actions taken in reliance thereon.