SAFETY DATA SHEET

1. Identification

Product Name:

Sunflower Oil (High Oleic)

Recommended use of chemical and restrictions on use:

Cosmetics, Pharmaceuticals

Chemical family:

Not available

Name and address of the supplier:

Essential Ingredients, Inc.

2408 Tech Center Parkway Suite 200

Lawrenceville, GA, US 30043

Supplier’s telephone number:

(770) 831-9010

24 Hr. Emergency telephone number:

(800) 424-9300 (CHEMTREC)

2. Hazard(s) Identification (Continued)

HMIS:

Health 0

Flammability 0

Reactivity 0

Personal Protection

Label Elements:

No Label Required

Signal Word:

None required

Hazard Statement(s):

None required
Precautionary Statement(s) Prevention  
None

Precautionary Statement(s) Response  
None

Precautionary Statement(s) Storage  
None

Precautionary Statement(s) Disposal  
None

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Percent by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sunflower Oil (High Oleic)</td>
<td>164250-88-8</td>
<td>100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

Ingestion:  
Not dangerous, oils are generally edible.

Inhalation:  
No vapours generated under normal handing conditions.

Skin Contact:  
Wash with soap and water.

Eye Contact:  
Rinse with plenty of water. If discomfort persists, seek medical attention.

General information- Get Medical Attention if any discomfort continues.
5. Firefighting Measures

Fire/Explosion Hazard: No information available

Extinguishing Media: Fire blanket, foam, dry powder and CO2.

Unsuitable Extinguishing Material: Water jet.

Specific Hazards Arising from the Chemical: Formation of carbon monoxide is possible.

Special Firefighting Procedures: Suitable respiratory protection.

Special Protective Equipment for Firefighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

No special precautions under normal conditions.

Environmental precautions

Keep away from drains, surface and ground water.

Methods and material for containment and cleaning up.

Physical methods, adsorbent material. Clean with hot water and detergent.

Reference to other sections

See sections 8 and 13.
7. Handling and Storage

**Precautions for Safe Handling:**
Handle with care and avoid spillage on the floor (spillage can cause slipping hazard). Normal working hygiene will suffice.

**Conditions for Safe Storage Including Any Incompatibilities:**
Store in a cool and dry place in the original containers, or store in a tank (preferably stainless steel). No special measures. Bunding or similar precautions are recommended to contain spillage or leaks. Pro-oxidants.

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8. Exposure Controls/Personal Protection

**Control Parameters:**

**Appropriate Engineering Controls:**
Not applicable for this substance under normal working procedures.

**Personal Protective Equipment (PPE):**

**Eye/Face Protection:**
Use safety glasses/goggles if there is a risk of splashing.

**Skin/Hand Protection:**
No special measures required under normal conditions.

**Respiratory Protection:**
In case of aerosol formation, use dust mask filter.

**Other:** A system of local and / or general exhaust is recommended. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
## 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Yellow</td>
</tr>
<tr>
<td>Odor</td>
<td>Neutral</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Determined</td>
</tr>
<tr>
<td>pH</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Freezing/Melting Point (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Boiling Point (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flash Point (°C)</td>
<td>&gt;300°C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not Flammable</td>
</tr>
<tr>
<td>Upper Explosive Limit (%)</td>
<td>Not Explosive</td>
</tr>
<tr>
<td>Lower Explosive Limit (%)</td>
<td>Not Explosive</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>&lt;0.01 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.90 – 0.93 g/ml</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Not Available</td>
</tr>
<tr>
<td>Partition Coefficient (n-Octanol/Water)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Auto-ignition Temperature (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>60 – 90 cP</td>
</tr>
<tr>
<td>VOC</td>
<td>Not Available</td>
</tr>
<tr>
<td>Percent Volatile</td>
<td>Not Available</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not Available</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Reactivity: No data available

Chemical Stability: Generally stable, becomes rancid on prolonged exposure to air.

Possibility of Hazardous Reactions: Oxidation promoting conditions (heat and UV light).

Conditions to Avoid: Oxidation promoting conditions (heat and UV light).

Incompatible Materials: Pro-oxidants.

Hazardous Decomposition Products: None

11. Toxicological Information

Acute oral toxicity (rat) The substance is a non-toxic vegetable oil of edible quality.
Acute dermal toxicity (rabbit) No skin irritation, no eye irritation, no sensitization.
Acute inhalation toxicity None specified
Subchronic oral toxicity (rat) None specified
Skin irritation (rabbit) No skin irritation, no eye irritation, no sensitization
Eye irritation (rabbit) Slight irritation.
Sensitization No skin irritation, no eye irritation, no sensitisation
Phototoxicity (guinea pig) Not available
Chronical toxicity Not available
12. Ecological Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>No information available</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>Readily biodegradable</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>No bioaccumulation is expected</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>Floats on water. Immobilises by adsorption to soil particles</td>
</tr>
<tr>
<td>Results of PBT and vPvB assessment</td>
<td>PBT / vPvB assessment not available as chemical safety assessment not required / not conducted.</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>None</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

No specific danger. Dispose according to local authority advice. May be burned together with household waste, if this is accepted by the authorities. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Waste treatment methods

14. Transportation Information

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Regulation</td>
<td>Not regulated</td>
</tr>
<tr>
<td>UN proper shipping name</td>
<td>Not Restricted</td>
</tr>
<tr>
<td>Transport hazard class</td>
<td>Not Restricted</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not Restricted</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>Not Restricted</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>Not Restricted</td>
</tr>
<tr>
<td>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</td>
<td>Not Restricted</td>
</tr>
</tbody>
</table>
15. Regulatory Information

US Federal Regulations
Safety, health, and environmental regulations/legislation specific for the substance

SARA 311/312 Hazards: None

SARA:

US State Regulations: None

California Prop 65 No Information available

Inventory Status:
Australia (AICS) N/A
Canada (DSL/NDSL) N/A
China (IECSC) N/A
Europe (REACH) N/A
Europe (EINEC/ELINCS) N/A
Japan (ENCS) N/A
Korea (KECI) N/A
New Zealand (NZIoC) N/A
Philippines (PICCS) N/A
16. Other Information

Source of Information:
No data available

Further Information:
The information provided in this safety data sheet is accurate to the best of our knowledge and is valid for the product as supplied. The information is intended for use as a guide for safety measures, and no liability arising out of the use, application or processing of the material is accepted.

Disclaimer:
As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local regulations remains the responsibility of the user.