



## Safety Data Sheet

### \*\*\* Section 4 - First Aid Measures \*\*\*

**First Aid: Eyes:** If necessary, rinse eyes with water.

**First Aid: Skin:** Wash with soap and water.

**First Aid: Ingestion:** None necessary.

**First Aid: Inhalation:** Remove to fresh air.

**Most important symptoms/effects (acute & delayed):** Acute eye contact requires rinsing. No delayed effects anticipated.

### \*\*\* Section 5 - Fire Fighting Measures \*\*\*

**Extinguishing Media (suitable & unsuitable):** Foam, CO2 or dry chemical. Because water can spread the fire, it is advisable to avoid a direct water stream for extinguishing the fire.

See Section 9 for Flammability Properties.

Edible oils will burn.

**Hazardous Combustion Products:** ND

**Special Fire Fighting Equipment/Protective Equipment/Precautions:** Firefighters should wear full protective gear.

**NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

### \*\*\* Section 6 - Accidental Release Measures \*\*\*

**Personal Precautions/Protective Equipment/Evacuation & Emergency Procedures:** Isolate area. Keep unnecessary personnel away. No special containment procedures necessary.

**Methods and Material for Containment & Clean-Up:**

For small spills, add solid adsorbent, shovel into disposable container and hose down area. Do not use incompatible clay adsorbents to avoid the possibility of spontaneous combustion. Clean area with detergent. For large spills, squeegee or pump into holding container. Clean area with detergent. Dispose of in accordance with local, state, and Federal regulations.

### \*\*\* Section 7 - Handling and Storage \*\*\*

**Safe Handling Procedures:** Use appropriate protective equipment when handling hot oils.

**Safe Storage Procedures (including incompatibilities):** Store away from flame and excessive heat. To avoid spontaneous fire, store wiping rags and similar material in UL/FM approved containers with tight fitting lids. Spilled product presents a slip hazard.

### \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

**Exposure Limits:** ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

Chemical	ACGIH (TWA & Ceiling)	OSHA (PEL)	Other

**Engineering Controls:** Ventilation should be provided in areas where hot oil is being used.

**Personal Protective Equipment: Eyes/Face:** Wear safety glasses; chemical goggles (if splashing is possible).

**Personal Protective Equipment: Skin/Hand:** If handling containers of hot oil, insulated gloves and apparel may be required.

**Personal Protective Equipment: Respiratory:** If exposed to oil mist, an appropriate NIOSH approved respirator for organic vapors may be required, in the event that exposure levels exceed 10 ppm.

**Other Protective Equipment:** Eye wash fountain and emergency showers are recommended.

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### \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

**Appearance:** Yellow Liquid  
**Odor:** NA  
**Odor Threshold:** NA  
**pH:** ND  
**Melting Point/Freezing Point:** ND  
**Initial Boiling Point and Boiling Range:** NA  
**Flash point:** >500°F  
**Evaporation Rate:** ND  
**Flammability (solid/gas):** > 600° F  
**Upper/Lower Flammability/Explosive Limits (UFL/LFL):** ND  
**Vapor Pressure:** ND  
**Vapor Density:** >1  
**Relative Density:** 0.92  
**Solubility(ies):** Insoluble  
**Partition Coefficient (n-octanol/water):** ND  
**Auto-ignition temperature:** ND  
**Decomposition temperature:** ND  
**Viscosity:** 42 cSt @ 40C

### \*\*\* Section 10 - Chemical Stability & Reactivity Information \*\*\*

**Reactivity:**

**Chemical Stability:** This is a stable material.

**Possibility of Hazardous Reactions:** Will not occur.

**Conditions to Avoid (e.g., static discharge, shock, or vibration):** None

**Incompatible materials:** None

**Hazardous Decomposition products:** None

### \*\*\* Section 11 - Toxicological Information \*\*\*

**Likely routes of exposure (inhalation, ingestion, skin and eye contact):** Eyes, skin, ingestion, inhalation.

**Description of immediate, delayed or chronic effects from short or long-term exposure:** None anticipated

**Numerical measures of toxicity (LD 50/LC50):**

**Palm oil (8002-75-3)**

Oral LD50 Rat: >18000 mg/kg

**Listed in NTP report on Carcinogens, or identified as potential carcinogen by IARC or OSHA:** None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

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**\*\*\* Section 12 - Ecological Information \*\*\* (non-mandatory)**

**Ecotoxicity**

**A: General Product Information**

**B: Component Analysis - Ecotoxicity - Aquatic Toxicity:** No ecotoxicity data are available for this product's components.

**\*\*\* Section 13 - Disposal Considerations \*\*\* (non-mandatory)**

**US EPA Waste Number & Descriptions:** No EPA Waste Numbers are applicable for this product's components.

**Disposal Instructions:**

All wastes must be handled in accordance with local, state and federal regulations.  
 See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

**\*\*\* Section 14 - Transportation Information \*\*\* (non-mandatory)**

**UN Number:**

**UN proper shipping name:** US Dot information: Shipping Name - Not Regulated

**Transport hazard classes:**

**Packing group number:**

**Environmental hazards (e.g., marine pollutant)**

**Bulk transport guidance:**

**Other special precautions:**

**\*\*\* Section 15 - Regulatory Information \*\*\* (non-mandatory)**

**US Federal Regulations (EPA, DOT, OSHA, CPSC):** None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

**Component Analysis - WHMIS IDL:** The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
N/A		

**State/Provincial Regulations:**

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI

**Additional Regulatory Information:**

Component Analysis – Inventory:

Component	CAS #	TSCA	CAN	EEC
Canola oil	120962-03-0	Yes	DSL	No
Soybean oil	8001-22-7	Yes	DSL	EINECS
Palm oil	8002-75-3	Yes	DSL	EINECS

## Safety Data Sheet

### \*\*\* Section 16 - Other Information \*\*\*

#### Other Information

Liquid Solutions believes, to the best of its knowledge, that the information contained herein is accurate as of the date hereof. However, 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 the material. MOREOVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREIN AS TO THE INFORMATION PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. The health and safety precautions contained herein may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely. Users should satisfy themselves that they have all current data relevant to their particular use and that their activities comply with all applicable laws.

#### Key/Legend

NA - Not Applicable  
ND - Not Determined  
ACGIH - American Conference of Governmental Industrial Hygienists  
OSHA - Occupational Safety and Health Administration  
TLV - Threshold Limit Value  
PEL - Permissible Exposure Limit  
TWA - Time Weighted Average  
STEL - Short Term Exposure Limit  
NTP - National Toxicology Program  
IARC - International Agency for Research on Cancer