

Safety Data Sheet

*** Section 1 - Product and Company Identification ***

Material Name: Edible Shortenings and Oils

Synonyms/Other Common Names: Canola oil, Linseed oil, Corn oil, Soybean oil, Cottonseed oil, Peanut Oil, Palm kernel oil, Copra, Olive oil, Tallow oil, Lard, Palm oil, Sunflower Oil, High Oleic Canola Oil.

Recommended Use & Restrictions: Food additive, Emulsifier

Manufacturer Information:

Bunge North America
1391 Timberlake Manor Parkway
Chesterfield, MO 63017

Phone: 314-292-2000 between 7:30 AM – 5:30 PM Central Time
Fax: 314-292-2384

Emergency Information:

In the event of an Emergency, contact Chemtrec at 1-800-424-9300

*** Section 2 – Hazard(s) Identification ***

Hazard classification: Not a dangerous substance according to GHS. The substance does not meet the criteria for classification.

Hazard Statement(s): Excessive inhalation of oil mist may affect the respiratory system. Sensitive individuals may experience dermatitis after prolonged exposure of oil on the skin.

Potential Health Effects:

Eyes: None expected under anticipated use conditions. May cause irritation in sensitive individuals.

Skin: None expected under anticipated use conditions. May cause irritation in sensitive individuals.

Ingestion: None expected under anticipated use conditions. May cause irritation in sensitive individuals.

Inhalation: Excessive inhalation of oil mist may affect the respiratory system.

Carcinogenicity and Reproductive Hazard: None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Medical Conditions aggravated by exposure to product: Excessive inhalation of oil mist may affect the respiratory system. Sensitive individuals may experience dermatitis after prolonged exposure of oil on the skin.

HMIS Ratings: Health: 1 Fire: 1 HMIS Reactivity 0

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

Label Elements: Not required

Signal Word: Not required

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component (Chemical Name & Common Name)	Concentration
120962-03-0	Canola oil	
8001-26-1	Linseed oil	
8001-30-7	Corn oil	
8001-22-7	Soybean oil	
8001-29-4	Cottonseed oil	
8002-03-7	Peanut Oil	
8023-79-8	Palm kernel oil	
8001-31-8	Copra	
8001-25-0	Olive oil	
61789-97-9	Tallow oil	
61789-99-9	Lard	
8002-75-3	Palm oil	
8001-21-6	Sunflower oil	
	Algae oil	
228404-57-7	High Oleic Canola Oil	

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*** Section 4 - First Aid Measures ***

Eyes: If necessary, rinse eyes with water.

Skin: Wash with soap and water.

Ingestion: None necessary.

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 ***

General Fire Hazards: See Section 9 for Flammability Properties.

Hazardous Combustion Products: Not Determined

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

Fire Fighting Equipment/Instructions: 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 ***

Evacuation Procedures/ Containment Procedures: Isolate area. Keep unnecessary personnel away. No special containment procedures necessary.

Clean-Up Procedures: 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 ***

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

Storage Procedures: 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:

Chemical	ACGIH (TWA & Ceiling)	OSHA (PEL)	NIOSH (REL)
Vegetable oil mist (CAS No. 68956-68-3)	As PNOS guidelines: 3 mg/m3 (respirable) 10 mg/m3 (inhalable)	TWA 15 mg/m3 (total) TWA 5 mg/m3 (respirable)	TWA 10 mg/m3 (total) TWA 5 mg/m3 (respirable)

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).

Skin: If handling containers of hot oil, insulated gloves and apparel may be required.

Respiratory: If exposed to oil mist, an appropriate NIOSH approved respirator for organic vapors may be required.

General: Eye wash fountain and emergency showers are recommended.

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

Appearance: Liquid, yellow-brown
Odor: NA
Odor Threshold: ND
pH: ND
Melting Point/Freezing Point: ND
Initial Boiling Point and Boiling Range: NA
Flash point: >500°F
Evaporation Rate: ND
Flammability (solid/gas): ND
Upper/Lower Flammability/Explosive Limits (UFL/LFL): >1
Vapor Pressure: NA
Vapor Density: NA
Specific Gravity: 0.70-0.95
Relative Density: ND
Solubility(ies): Insoluble
Partition Coefficient (n-octanol/water): ND
Auto-ignition temperature: ND
Decomposition temperature: ND
Viscosity: ND

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

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 (LD50/LC50)

Cottonseed oil (8001-29-4)

Oral LD50 Rat: >90 mL/kg

Corn oil (8001-30-7)

Oral LD50 Rat: >100 mL/kg

Copra (8001-31-8)

Oral LD50 Rat: >5000 mg/kg

Palm oil (8002-75-3)

Oral LD50 Rat: >18000 mg/kg

Palm kernel oil (8023-79-8)

Oral LD50 Rat: >5000 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)

US DOT Information

Shipping Name: Not Regulated

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

US Federal Regulations: 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 - State

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

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
Linseed oil	8001-26-1	No	No	No	No	Yes	Yes
Corn oil	8001-30-7	No	No	No	No	Yes	Yes
Soybean oil	8001-22-7	No	No	No	No	Yes	Yes
Cottonseed oil	8001-29-4	No	No	No	No	Yes	Yes
Peanut Oil	8002-03-7	No	No	No	No	Yes	Yes
Tallow oil	61789-97-9	No	No	No	No	Yes	Yes

Additional Regulatory Information

Component Analysis – Inventory

Component	CAS #	TSCA	CAN	EEC
Canola oil	120962-03-0	Yes	DSL	No
Linseed oil	8001-26-1	Yes	DSL	EINECS
Corn oil	8001-30-7	Yes	DSL	EINECS
Soybean oil	8001-22-7	Yes	DSL	EINECS
Cottonseed oil	8001-29-4	Yes	DSL	EINECS
Peanut Oil	8002-03-7	Yes	DSL	EINECS
Palm kernel oil	8023-79-8	Yes	DSL	EINECS
Copra	8001-31-8	Yes	DSL	EINECS
Olive oil	8001-25-0	Yes	DSL	EINECS
Tallow oil	61789-97-9	Yes	DSL	EINECS
Lard	61789-99-9	Yes	DSL	EINECS
Palm oil	8002-75-3	Yes	DSL	EINECS
Sunflower oil	8001-21-6	Yes	DSL	EINECS
High Oleic Canola Oil	228404-57-7	Yes	NDSL	No

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*** Section 16 - Other Information ***

Other Information

Bunge 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

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