

Safety Data Sheet: Camelina Sativa Seed Oil

1. IDENTIFICATION OF THE SUBSTANCE & THE COMPANY

Product Name: Camelina Seed Oil, cold-pressed

Biological Definition: The cold-pressed oil from the seeds of Camelina sativa

INCI Name: Camelina sativa seed oil

Supplier: BioEconomy Solutions LLC, 1400 112th Ave SE, Suite 100, Bellevue, WA 980042

2. HAZARDS IDENTIFICATION

Classification (1999/45): Not classified

Classification (EC 1272/2008): Not classified

Label in accordance with (EC) No 1272/2008: No hazard labeling required.

Signal Word: None

Contains: Vegetable triglycerides from Camelina sativa seeds (See product spec for fatty acid profile)

Hazard Statements: None

Precautionary Statements: None

Supplementary Precautionary Statements: None

PBT or vPvB according to Annex XIII: No

Adverse physio-chemical properties: None at ordinary temperatures

Adverse effects on human health: None known

3. COMPOSITION/INFORMATION ON INGREDIENTS

100% vegetable triglycerides from Camelina sativa seeds.

4. FIRST AID MEASURES

General Information: See categories below

Inhalation: Remove from exposure area to fresh air. Contact a doctor if necessary.

Ingestion: Wash mouth out with water and obtain medical advice immediately.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

Eye Contact: Flush with plenty of water and seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use CO₂, Dry Powder or Foam type extinguishers, spraying extinguishing media to base of flames. Do not use direct water jet on burning material.

Special Fire Fighting Procedures: Wear protective clothing. Avoid inhalation of vapours.

Specific Hazards: None

Protective Measures in Fire: Closed containers may build up pressure when exposed to heat and should be cooled with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Maintain good occupational and personal hygiene. Avoid contact with skin and eyes.

Environmental Precautions: Do not discharge directly into drains or soil. Keep away from surface and ground water.

Spill Clean Up Methods: Soak up spillage with sand or other inert material. Transfer soaked material to suitable waste container and dispose according to prevailing regulations.

7. HANDLING AND STORAGE

Usage Precautions: Keep away from open flames. Do not overheat.

Storage Precautions: Store in cool conditions in a tightly sealed inert container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Equipment: No special items required. If oil is hot however, wear face protection and gloves.

Engineering Measures: Normal measures for handling non-hazardous liquid material.

Respiratory Equipment: Not normally required unless the oil is heated in which case attention must be paid to ensuring adequate ventilation and deployment of NIOSH-approved respirators.

Hand Protection: Gloves should be worn

Eye Protection: Safety glasses/face protection should be worn.

Other Protection: Evaluate according to situation. Slip-proof shoes may be needed where oil spills have occurred.

Hygiene Measures: Normal measures for handling non-toxic liquids should be employed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Mobile liquid

Color: Dark amber to yellow. Colour assessment using a 5.25” Lovibond cell: $\leq 15y, 3r, 1b$

Odor: Strong natural vegetable odor. Has been characterized by some analysts as “nutty”

Relative Density: 0.920 to 0.950 @ 20°C

Flash Point (°C): >288 c/c

Refractive Index: 1.470 to 1.480 @ 20°C

Melting Point (°C): No additional data available

Boiling Point (°C): No additional data available

Vapor Pressure: No additional data available

Solubility in Water @20°C: Insoluble

Auto-ignition Temperature(°C): No additional data available

10. STABILITY AND REACTIVITY

Stability: Shelf life at least 12 months when stored in cool conditions in inert containers flushed with nitrogen.

Conditions to Avoid: Avoid heating to high temperatures near flash-point.

Materials to Avoid: Strong oxidising agents

Hazardous Decomposition Products: Acrolein may be formed at very high temperatures.

11. TOXOLOGICAL INFORMATION

Acute Toxicity: Not applicable—food grade vegetable oil product.

Skin corrosion / irritation: Not applicable

Serious eye damage / irritation: Not applicable

Respiratory or skin sensitization: Not applicable

Germ Cell Mutagenicity: Not listed as mutagenic

Carcinogenicity: Not listed as carcinogenic

Reproductive toxicity: Not reprotoxic

STOT-single exposure: Not applicable

STOT-repeated exposure: Not applicable

Aspiration hazard: Not applicable. Avoid breathing vapours of hot or very hot oil.

Photo-toxicity: Not photo-toxic

Other Information: None

12. ECOLOGICAL INFORMATION

Ecotoxicity: Expected to be ultimately biodegradable.

Mobility: No additional data available

Persistence & Biodegradability: No additional data available

Bioaccumulation Potential: No additional data available. No data found.

PBT Assessment Results: No additional data available

Precautions: Avoid disposal into the environment especially into watercourses and the sea.

13. DISPOSAL CONSIDERATIONS

Disposal Methods: Do not release into the environment. Collect waste into suitable containers and contact hazardous chemical disposal company.

14. TRANSPORT INFORMATION

Warning Icon: Not required

Proper Shipping Name: Not applicable

UN No. Road: Not classified re: RID/ADR/IMDG requirements & regulations

ADR Class: Not applicable

Hazard No (ADR): Not applicable

Hazchem Code: Not applicable

UN No. SEA: Not applicable

IMDG Class: Not applicable

IMDG Pack Gr.: Not applicable

EMS: Not applicable

UN No. AIR: Not applicable

Air Class: Not applicable

Air Pack Gr.: Not applicable

15. REGULATORY INFORMATION

EU Directives: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th Dec 2006 Concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 199/45/EC and repealing Council Regulation Council Regulation (EEC) No793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, and 93/105/EEC and 2000/21/EC including amendments.

Statutory Instruments: The Chemicals (Hazard Information and Packaging for Supply Regulations 2009 (S.I. 2009 No 716). Approved Code of Practice Classification and Labeling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations Guidance Notes Workplace Exposure Limits EH40. CHIP for everyone HSG 108.