

Finola®



Finola ky

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2010 Material Safety and Data Sheet for Finola® Hempseed Oil

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Composition/Information on Ingredients

INCI Name: *Cannabis sativa* L., Finola variety hempseed oil

Chemical Description: Fatty acid triglycerides

Substance presenting health hazard: None

Technical characteristics of cold-pressed hempseed oil.

Solidification point	-20 °C
Flash point	141 °C
Smoke point	165 °C
Specific gravity	0.9295 g/ml at 20 °C
Saponifation value	193
Iodine value	160
Chlorophyll content	5-80 ppm
Color and smell:	dark clear green oil, fresh, nutty smell

Peroxide values: food grade	< 5 meq/kg
cosmetic grade	< 10 meq/kg
industrial grade	> 10 meq/kg

Free fatty acid value: food grade	< 0.1%
other grades	> 1.0%

Main fatty acids, expressed as typical per cent of the oil:

Palmitic (16:0)	5%
Stearic (18:0)	2
Oleic (18:1n9)	9
Linoleic (18:2n6)	56
<i>alpha</i> -Linolenic (18:3n3)	22
<i>gamma</i> -Linolenic (18:3n6)	4
Stearidonic acid (18:n4n3)	2
Total unsaturates	84%
Typical <i>omega</i> -6/ <i>omega</i> -3 ratio	2.5
Primary triglyceride components	LnLLn > LLL > LLnLn

Other important components of the oil:

Vitamin E (total)	90 mg/100 g
As <i>alpha</i> -tocopherol	5 mg/100 g
As <i>gamma</i> -tocopherol	85 mg/100 g

Cholesterol not detected
trans-Fats not detected
Tetrahydrocannabinol (THC) < 5 ppm

Hazard Identification

Environmental Hazards: Not to be expected if handled and used properly.

Human Health Hazards: Not to be expected if handled and used properly.

First Aid Measures

Effects and symptoms:

Ingestion: Edible quality

Inhalation: Not considered dangerous, but do not inhale!

Skin contact: Non-irritating

Eye contact: May cause irritation

Fire Fighting Measures

Extinguishing Media

Suitable: Dry powder, foam, and carbon dioxide.

Unsuitable fire extinguisher: Water jet, but use water to cool fire-exposed containers.

Special Firefighting Procedures

Protection of Firefighters: Wear self-contained breathing apparatus and other protective clothing.

Accidental Release Measures

Personal Precautions: Watch out for slippery conditions when spillage, avoid contact with eyes.

Environmental Precautions: Keep away from drains and ground water.

Methods of cleaning up: Pick up excess with inert absorbent material and place into separate waste container. Flush area with warm soapy water.

Handling and Storage

Handling: Handle with care and avoid spillage on the floor (slippage).

Measures for safety handling: Normal working hygiene. Keep away from sources of ignition.

Storage: Store in a cool, dark, dry place. Keep away from heat.

Suitable packing materials: Coated (interior) steel drums, (dark) plastic containers, dark glass.

Not suitable packaging materials: Soft plastic, metals such as iron, bronze, or copper.

Exposure Control Personal Protection

Further measures to the design of technical equipment:

If necessary, melt with ambient air temperatures or water bath.

Respiratory protection: No special measures at normal room temperature.

Hand protection: No special measures at normal room temperature.

Eye Protection: Usage of safety glasses/ goggles is recommended.

Skin protection: No special measures at normal room temperature.

Stability and Reactivity

Conditions to avoid: Oxidation promoting conditions. (Heat, sunlight, air, metals)

Materials to Avoid: Strong Oxidizing Agents

Hazardous decomposition products: Only through thermal decomposition (burning)

Toxological Information of our food grade Finola® oil

The product is considered non-toxic and of edible quality.

Acute Toxicity:

Oral (LD 50): Not tested on animal Inhalation (LC 50): Not to be expected.

Skin irritation: No skin irritation.

Sensitisation: N/A

Chronic Toxicity: Not to be expected.

Ecological Information:

Elimination: (persistence and degradability) Readily biodegradable.

Bioaccumulative potential: N/A

Ecotoxicity: N/A

According to the chemical composition: No content of heavy metal or substances classified as dangerous for health or to the environment in normal use.

Disposal Considerations

Dispose of in accordance with the local regulations. This material is not considered hazardous.

Contaminated packaging: Suitable waste-disposal site approved by local authorities.

Transport Information

Land transport ADR/RID and GGVS/GGVE: Not classified.

Sea Transport IMDG/GGVSee: Not classified

Air Transport ICAO-TI and IATA-DGR: Not classified.

Not a hazardous product according to these transport classifications.

Regulatory Information

Finola® hempseed oil is regulated as other industrial vegetable food oils

Classification according to EEC directives:

According to information this product is not a dangerous material.

Symbols and phrases according to health hazards: None

Dangerous substances to label: None

Content

R-phrases: None

S-phrases: None

Other Information

This information is given in good faith and based on our current knowledge of the product.

Disclaimer

The above information is not claiming characteristics of the product in terms of legal claims for performance/guarantee. This information only describes typical chemical and physical values, and suggested safety measures in case of fire. Finola ky assumes no liability that may arise from the use, misuse or application of the product described herein.