

JOJOBA GOLDEN OIL Specification

- CTFA Name:** *Simmondsia Chinensis (jojoba) Seeds Oil.*
Commercial Name: *Jojoba Golden Oil (R).*
Description: *Virgin oil obtained from Jojoba seeds, with no additives.*
Extraction Method: *Produced by cold press of ripe seeds.*
Appearance: *Yellow clear oil; Very light Odor (Faint characteristic).*

<u>Chemical and Physical Properties</u>	<u>Specification</u>
Specific Gravity	0.863-0.873
Moisture and Insoluble Impurities	Max. 0.1%
Acid Value	Max. 1.0
Peroxide Values	Max. 2.0
Saponification Value	88.0-98.0
Unsaponifiable matter	45.0-55.0
Iodine Value	80.0-90.0
Color Gardner	Max.10.0
Refractive Index	1.465-1.467
Microbial Total Contamination, CFU	Max. 10/1gr
Pesticides Residues	None

Fatty Acid Composition

C16:0 Palmitic acid	Max. 3.0%
C16:1 Palmitoleic acid	Max. 1.0%
C18:0 Stearic acid	Max 5.0%
C18:1 Oleic acid	5.0-15.0%
C20:0 Arachidic acid	Max. 3.0%
C20:1 Gadoleic acid	65.0-80.0%
C22:0 Behenic acid	Max. 1.0%
C22:1 Erucic acid	10.0-20.0%
C24:1 Nervonic acid	Max. 3.0%
Others Fatty acid	Max.3.0%

Wax Esters Composition (%)

C36	Max. 2.0%
C38	Max 10.0%
C40	26.0-37.0%
C42	44.0-56.0%
C44	8.0-13.0%
C46	Max. 3.0%

The information above is' to the best of our knowledge, reliable. Users should, however, conduct their own tests to determine the suitability of our products for their own specific purposes. Statements contained herein should not be considered as warranty of any kind, expressed or implied, and no liability is accepted for the infringements of any patents.

DESERT OIL LTD. ,MACHA ,M.P. HNEGEV 4, 85475 ISRAEL

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ORGANIC JOJOBA GOLDEN OIL

Specification

CTFA Name: *Simmondsia Chinensis (jojoba) Seeds Oil.*
Commercial Name: *Organic Jojoba Golden Oil (R).*
Description: *Virgin oil obtained from Organic Jojoba seeds, with no additives.*
Extraction Method: *Produced by cold press of ripe seeds.*
Appearance: *Yellow clear oil; Very light Odor (Faint characteristic).*

<u>Chemical and Physical Properties</u>	<u>Specification</u>
Specific Gravity	0.863-0.873
Moisture and Insoluble Impurities	Max. 0.1%
Acid Value	Max. 1.0
Peroxide Values	Max. 2.0
Saponification Value	88.0-98.0
Unsaponifiable Matter	45.0-55.0
Iodine Value	80.0-90.0
Color Gardner	Max.10.0
Refractive Index	1.465-1.467
Microbial Contamination, CFU	Max. 10/1gr
Pesticides Residues	None

<u>Fatty Acid Composition</u>	<u>Specification</u>	<u>Wax Composition</u>	<u>Specification</u>
C16:0 Palmitic acid	Max. 3.0%	C36	Max. 2.0%
C16:1 Palmitoleic acid	Max. 1.0%	C38	Max 10.0%
C18:0 Stearic acid	Max 5.0%	C40	26.0-37.0%
C18:1 Oleic acid	5.0-15.0%	C42	44.0-56.0%
C20:0 Arachidic acid	Max. 3.0%	C44	8.0-13.0%
C20:1 Gadoleic acid	65.0-80.0%	C46	Max. 3.0%
C22:0 Behenic acid	Max. 1.0%		
C22:1 Erucic acid	10.0-20.0%		
C24:1 Nervonic acid	Max. 3.0%		
Others Fatty acid	Max.3.0%		

Organic Certification: *Desert oil Ltd. certifies that the Organic Jojoba Golden Oil is pressed from seeds that organically grown, and was processed in accordance with the Council Regulation (EEC) No. 2092/91, and with the Commission Regulation (EC) No. 1367/98. This product is also certified in accordance with the USDA National Organic Program (NOP) of USA, and with the standards of Israel Bio Organic Agriculture Association (IBOAA), that comply by the International Federation of Organic Agriculture Movements (IFOAM).*

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REFINED COLORLESS JOJOBA OIL Specification

CTFA Name: *Simmondsia Chinensis (jojoba) Seeds Oil.*
Commercial Name: *Refined Colorless Jojoba Oil (R).*
Description: *Virgin oil obtained from Jojoba seeds, with no additives.*
Extraction Method: *Produced by cold press of ripe seeds.*
Appearance: *Colorless clear oil; Natural Odor (Faint characteristic).*

<u>Chemical and Physical Properties</u>	<u>Specification</u>
Specific Gravity.....	0.863-0.873
Moisture and Insoluble Impurities.....	Max. 0.1%
Acid Value.....	Max. 1.0
Peroxide Values.....	Max. 2.0
Saponification Value.....	88.0-98.0
Unsaponifiable matter.....	45.0-55.0
Iodine Value.....	80.0-90.0
Color Lovibond.....	Max:Y-3.0 R-0.5
Color Gardner.....	Max 0.2
Refractive Index.....	1.465-1.467
Microbial Total Contamination, CFU.....	Max. 10/1gr
Pesticides Residues.....	None

Fatty Acid Composition

C16:0 Palmitic acid.....	Max. 3.0%
C16:1 Palmitoleic acid.....	Max. 1.0%
C18:0 Stearic acid.....	Max 0.5%
C18:1 Oleic acid.....	5.0-12.0%
C20:0 Arachidic acid.....	Max. 0.3%
C20:1 Gadoleic acid.....	65.0-80.0%
C22:0 Behenic acid.....	Max. 1.0%
C22:1 Erucic acid.....	10.0-20.0%
C24:1 Nervonic acid.....	Max. 3.0%
Others Fatty acid.....	Max.3.0%

Wax Esters Composition (%)

C36.....	Max. 2.0%
C38.....	Max 10.0%
C40.....	26.0-37.0%
C42.....	44.0-56.0%
C44.....	8.0-13.0%
C46.....	Max. 3.0%

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ORGANIC REFINED COLORLESS JOJOBA OIL Specification

CTFA Name: *Simmondsia Chinensis (jojoba) Seeds Oil.*
Commercial Name: *Organic Refined Colorless Jojoba Oil (R).*
Description: *Virgin oil obtained from Organic Jojoba seeds, with no additives.*
Extraction Method: *Produced by cold press of ripe seeds.*
Appearance: *Colorless clear oil; Natural Odor (Faint characteristic)*

<u>Chemical and Physical Properties</u>	<u>Specification</u>
Specific Gravity	0.863-0.873
Moisture and Insoluble Impurities	Max. 0.1%
Acid Value	Max. 1.0
Peroxide Values	Max. 2.0
Saponification Value	88.0-98.0
Unsaponifiable Matter	45.0-55.0
Iodine Value	80.0-90.0
Color Lovibond	Max:Y-3.0 R-0.5
Color Gardner	Max 0.2
Refractive Index	1.465-1.467
Microbial Contamination, CFU	Max. 10/1gr
Pesticides Residues	None

<u>Fatty Acid Composition</u>	<u>Specification</u>	<u>Wax Composition</u>	<u>Specification</u>
C16:0 Palmitic acid	Max. 3.0%	C36	Max. 2.0%
C16:1 Palmitoleic acid	Max. 1.0%	C38	Max 10.0%
C18:0 Stearic acid	Max 0.5%	C40	26.0-37.0%
C18:1 Oleic acid	5.0-12.0%	C42	44.0-56.0%
C20:0 Arachidic acid	Max. 0.3%	C44	8.0-13.0%
C20:1 Gadoleic acid	65.0-80.0%	C46	Max. 3.0%
C22:0 Behenic acid	Max. 1.0%		
C22:1 Erucic acid	10.0-20.0%		
C24:1 Nervonic acid	Max. 3.0%		
Others Fatty acid	Max.3.0%		

Organic Certification: *Desert oil Ltd. certifies that the Organic Jojoba Golden Oil is pressed from seeds that organically grown, and was processed in accordance with the Council Regulation (EEC) No. 2092/91, and with the Commission Regulation (EC) No. 1367/98. This product is also certified in accordance with the USDA National Organic Program (NOP) of USA, and with the standards of Israel Bio Organic Agriculture Association (IBOAA), that comply by the International Federation of Organic Agriculture Movements (IFOAM).*

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MATERIAL SAFTY DATA SHEET FOR JOJOBA GOLDEN OIL Specification

1. Product and Company Identification Supplier Product Name: Desert Oil Ltd. INCI Name: Simmondsia Chinesis (Jojoba) Seed Oil Manufacturer: Desert Oil Ltd, Mobile Post Hanegev 4, Macha, Israel. Phone: 972-8-9982684 Fax: 972-8-9982005 Email:macha@netvision.net.il	
2. Composition / information on ingredients 100% Natural Jojoba Oil	
3. Hazards indentification Human: None Environmental: None	
4. First Aid Measures Inhalation: Not an expected route of exposure. Ingestion: Drink 2 to 3 glasses of water. If gastrointestinal developments occur, consult medical personnel. Eye contact: Flush eyes for at least 15 minutes. Skin contact: Beneficial to the skin.	
5. Fire - Fighting Measures Extinguishing Method: Use carbon diaxide, dry chemical, fog, water. Water should be used to Keep fire-exposed containers cool, to disperse vapors and to flush spills away from the fire.	
6. Accidental Release Measures Methods for cleaning up: Absord with non-combustible absorbent. Wash residue with mild soap and water. Environmental Precautins: Keep out of storm sewers and natural waterways	
7. Handling and storage Normal chemical handling procedures.	
8. Exposure Control/Personal Protection Ventilation: Efficient mechanical exhaust system recommended Respiratory protection: Not an expected route of exposure. Protective clothing: Impervious gloves & apron. Eye Protection: Protection glasses.	
9. Physical and Chemical properues Physical State: Liquid Form: Oily Liquid Color: Light brightyellow Odor: Odorless Specific Gravity @25°C: 0.863-0.873 Vapor Density: <1 Flash point: 295°C Vapor Pressure: >1 Solubility in H ₂ O: <1% Volatiles (%):<1	
10. Stability and Reactivity Stability: Stable Material to avoid: Strong oxidizers	
11. Toxicology Information Not applicable.	13. Hazard Summary Not applicable.
12. Ecological Information No ecological hazards are associated with this product.	14. Transport information Transport as Non-Hazardous Chemical.
15. Regulatory information U.S: This Material is intended to be used as a cosmetic ingredient and is exempted from Toxic Substances Control Act (TSCA) regulation (40 CFR 710)when used as such. Do not use for other purposes. EC: This product is not classified as dangerous according to the health and physical properties criteria of the EU directives on the classification of substances and preparations.	

This information is accurate to the best of Desert Oil Ltd. knowledge and based on information considered to be reliable. It is furnished without warranty. Customers should assess the safety of their final products and satisfy themselves that no patents are being infringed.