

Desert Whale Jojoba Oil + Derivatives

Naturally Better Solutions™ ...From Our Farms to Your Formulations



KEY BENEFITS

- Naturally-Derived + Sustainable
- Non-Greasy Emolliency
- Conditioning, Softening, Smoothing
- Moisturization, Lipid Replenishment
- Gloss / Shine Enhancing
- Skin Feel, Formulation Texture
- Structure, Stick Strength
- Film Forming, Substantivity
- Slip / Glide Improvement
- Exfoliation + Visual Effects
- Co-Emulsifying + Neutralizing
- Mild Cleansing
- High Oxidative Stability
- Organic, Ecocert and Oil-Free Options

IDEAL FOR USE

- Skin Care
- Hair Care
- Color Cosmetics
- Cleansers
- Sun Care
- Baby Care
- Nail Care

WHAT ARE DW JOJOBA OIL + DERIVATIVES?

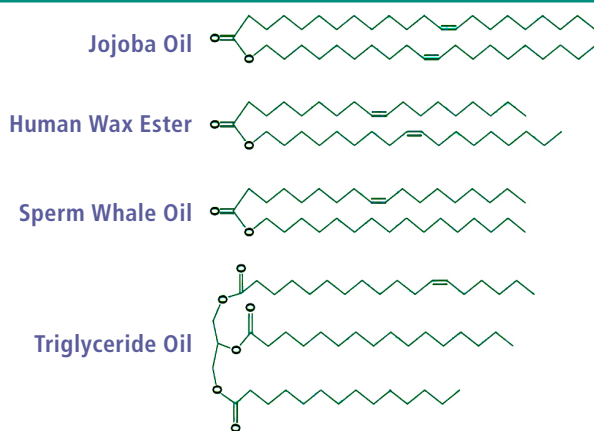
Desert Whale Jojoba Oil + Derivatives is a wide range of high quality, naturally-derived sustainable jojoba products – including **DW Jojoba Golden** and **DW Jojoba Colorless** jojoba oil, many jojoba derivatives, and biodegradable exfoliant alternatives to polyethylene beads (see inside table).

DW Jojoba Golden and **DW Jojoba Colorless** were named jojoba oil, but they are actually liquid wax esters with a unique chemical composition similar to that of human sebum. They are unlike all other naturally occurring oils, such as vegetable oils, which are triglycerides. As a result, **DW Jojoba Golden** and **DW Jojoba Colorless** are non-occlusive with superior properties and performance – including non-greasy emolliency, high oxidative stability, excellent lubricity, as well as stability across a wide range of temperatures and in high pressure processes.

WHAT DO DW JOJOBA OIL + DERIVATIVES DO?

Desert Whale Jojoba Oil + Derivatives – including **DW Jojoba Golden** and **DW Jojoba Colorless** – are unique and innovative providing a wide variety of benefits + functionality (see inside table). They are ideal for use in a broad range of applications – including skin care, hair care, color cosmetics, cleansers, sun care, baby care and nail care. Many certified organic, Ecocert approved and oil-free options are available.

CHEMICAL STRUCTURE COMPARISON



DESERT WHALE JOJOBA OIL + DERIVATIVES

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PRODUCT / INCI NAME	DESCRIPTION
DW Jojoba Colorless** Simmondsia Chinensis (Jojoba) Seed Oil	Clear, colorless liquid wax ester extracted from jojoba seeds with unique composition + properties, providing superior performance compared to other oils. Non-occlusive.
DW Jojoba Golden** Simmondsia Chinensis (Jojoba) Seed Oil	Clear, golden liquid wax ester extracted from jojoba seeds with unique composition + properties, providing superior performance compared to other oils. Non-occlusive.

JOJOBA DERIVATIVES

Iso Jojoba™-35* Simmondsia Chinensis (Jojoba) Butter	Light soft butter derived from jojoba oil with protective properties. Melts at body temperature (approximately 35°C) and penetrates readily into the skin.
Iso Jojoba™-50* Simmondsia Chinensis (Jojoba) Butter	Non-greasy paste-like butter derived from jojoba oil, with protective properties and a melting point of approximately 50°C.
Jojoba Buttercream™ Butyrospermum Parkii (Shea) Butter, (and) Jojoba Alcohol (and) Potassium Jojobate (and) Simmondsia Chinensis (Jojoba) Butter (and) Propylalcohol	Multi-functional cream base containing jojoba butter + shea butter. Has protective properties and acts as a secondary emulsifier + natural neutralizing agent, while providing numerous other benefits.
Jojoba Esters-15* Jojoba Esters	Clear, colorless liquid wax ester made from jojoba oil via interesterification. Suitable for oil-free formulations. No effect on foaming in surfactant systems.
Jojoba Esters-20 NEW Jojoba Esters	White creamy paste made from jojoba oil via interesterification. Oil-free, melts slightly above body temperature. No effect on foaming in surfactant systems.
Jojoba Esters-30 NEW Jojoba Esters	White soft paste made from jojoba oil via interesterification. Suitable for oil-free formulations.
Jojoba Esters-60 NEW Jojoba Esters	White firm paste made from jojoba oil via interesterification. Suitable for oil-free formulations. Forms a protective film with a non-greasy feel.
Jojoba Esters-70* Jojoba Esters	White wax flake made from hydrogenated jojoba oil via interesterification. Oil-free. Benefits include providing flexible film in mascara, non-brittle structure in sticks.
Jojoba Glaze®-HV Simmondsia Chinensis (Jojoba) Seed Oil (and) Ethylene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer	Clear, colorless anhydrous gel composed almost entirely of jojoba oil. High viscosity, substantive. Does not suppress foaming in surfactant systems. Ideal applications include long-wearing cosmetics and products for long-lasting moisturization.
Jojoba Glaze®-LV Simmondsia Chinensis (Jojoba) Seed Oil (and) Ethylene/Propylene/Styrene Copolymer (and) Butylene/Ethylene/Styrene Copolymer	Clear, colorless anhydrous gel composed almost entirely of jojoba oil. Low viscosity, substantive. Does not suppress foaming in surfactant systems. Ideal applications include long-wearing cosmetics and products for long-lasting moisturization.
Jojoba Hydrate™ Jojoba Alcohol (and) Potassium Jojobate (and) Butylene Glycol	Unique multi-functional paste composed of saponified jojoba oil. Acts as a secondary emulsifier + natural neutralizing agent, while providing other benefits.
Jojoba Illuminate™ Jojoba Alcohol (and) Potassium Jojobate (and) Propylalcohol	Unique multi-functional paste composed of saponified jojoba oil. Acts as a secondary emulsifier + natural neutralizing agent, while providing other benefits.
Jojoba Wax Flakes* Hydrogenated Jojoba Oil	White, hard wax flakes composed of hydrogenated jojoba oil. Provide numerous benefits including the formation of a flexible film in mascaras, reducing flaking.

JOJOBA EXFOLIANTS

Jojoba Butter Beads™ Simmondsia Chinensis (Jojoba) Butter (and) Hydrogenated Jojoba Oil	Multi-functional crushable beads made from jojoba butter + jojoba wax, with a melting point of 50°C. Melt on the skin and release ingredients upon rub-out.
Jojoba Scrubbeads™ Hydrogenated Castor Oil (and) Hydrogenated Jojoba Oil	Biodegradable cost-effective alternative to polyethylene beads made from jojoba wax + castor wax, with a 82-90°C melting point. Suitable for higher mixing temperatures.
Jojoba Spheres™ Hydrogenated Jojoba Oil	Premier biodegradable exfoliant made from jojoba wax, with a spherical shape and a melting point of 68-70°C. Available in a wide range of standard colors.
Lipo® JIM Simmondsia Chinensis (Jojoba) Seed Powder	Green + natural exfoliant made from crushed jojoba seeds, with approximately 10% residual jojoba oil. Softens in formulations, suitable for gentle exfoliation.
OFI™ Spheres* Jojoba Esters	Biodegradable exfoliant made from jojoba esters with a melting point of 66-70°C. Provide the same benefits as Jojoba Spheres™ but suitable for oil-free formulations.
PEI™ S Beads NEW Stearyl Behenate (and) Jojoba Esters	Biodegradable cost-effective beads with abrasiveness + skin feel similar to that of polyethylene beads, and a 63-70°C melting point. Oil-free + non-hydrogenated.

*Eccert approved.

** Eccert approved or certified organic options available.

BENEFITS										APPLICATIONS										FORMULATION TYPES									
Emolliency	Conditioning	Softening	Moisturization	Gloss / Shine	Smoothing	Skin Feel	Formulation Texture	Structure	Film Forming	Slip / Glide	Other Benefits	Skin Care	Color Cosmetics	Lip Care	Hair Care	Cleaners	Sun Care	Emulsion	Sticks	Anhydrous	Surfactant System	Mascara	Pressed Powders						
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant			•	•	Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant			•	•	Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant	Light, Smooth, Soft Luxurious, Creamy		•	•	Cushion, Substantivity, Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Elegant	Luxurious, Creamy	•	•	•	Cushion, Substantivity, Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant	Creamy, Soft, Smooth	•	•	•	Skin Replenishing, Co-Emulsifying, Neutralizing	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant			•	•	Pigment Wetting, Pressed Powder Binder	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant	Creamy, Soft		•	•	Cushion, Smooth Soft Application	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant	Creamy		•	•	Stick Strength, Substantivity	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Greasy, Smooth, Elegant	Creamy		•	•	Stick Strength, Substantivity	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Tacky	Occlusive Feel, Silky		•	•	Substantivity, Particle Suspension, Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Non-Tacky	Occlusive Feel, Silky		•	•	Substantivity, Lipid Replenishment	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Lubricious	Gel-Cream Type		•	•	Co-Emulsifying, Neutralizing, Cleansing	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Lubricious	Gel-Cream Type		•	•	Co-Emulsifying, Neutralizing, Cleansing	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•		Creamy		•	•	Stick Strength, Substantivity	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Soft	Textured Feel		•	•	Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Mild/Moderate Abrasiveness			•	•	Exfoliation, Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Mild/Moderate Abrasiveness			•	•	Exfoliation, Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Soft/Mild Abrasiveness			•	•	Exfoliation, Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Mild/Moderate Abrasiveness			•	•	Exfoliation, Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					
•	•	•	•	•	•	Moderate Abrasiveness			•	•	Exfoliation, Visual Effects	•	•	•	•	•	•	•	•	•	•	•	•	•					

www.vantagegrp.com



DESERT WHALE JOJOBA OIL + DERIVATIVES

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RELIABLE SUPPLY + SERVICE: *From Our Farms to Your Formulations*

Vantage is the largest jojoba grower and producer of jojoba products – the only vertically-integrated supplier owning every step in the supply chain, from farming to oil extraction to derivatives manufacturing. This is part of our ongoing commitment to providing reliable product supply + service.

In fact, with a jojoba farm already operating in Arizona, we recently expanded our growing capabilities by acquiring a majority share in Agrinsa, one of the world's largest jojoba farms located in Argentina. The Agrinsa farm is significantly larger than Vantage's existing Arizona farm, which was acquired in 2012 when Vantage purchased the Desert Whale Jojoba Company.

Vantage now has an even stronger platform for expanding the Desert Whale Jojoba Oil + Derivatives product line, and

continuing to meet the fast-growing demand for natural, sustainable cosmetic ingredients. Owning multiple sources of jojoba with farms located 5,000 miles apart, in regions that have different growing seasons and weather patterns, will help to further ensure continuity of supply.



GLOBAL CUSTOMER SUPPORT

Vantage is a leading global supplier of specialty ingredients to the personal care and cosmetics market, offering Desert Whale Jojoba Oil + Derivatives along with many other broad product lines. In addition, Vantage offers substantial customer support around the world – from local technical + commercial teams, formulation labs and warehousing; to a network of distribution partners; to a regulatory team based in the US.

LONG-STANDING EXPERTISE IN SUSTAINABLE JOJOBA

Over the course of almost 40 years Vantage has built expertise in the development, production and supply of environmentally-friendly cosmetic ingredients through green, sustainable practices. It began in the 1970s when founders of the Desert Whale Jojoba Company promoted jojoba oil as a unique plant-derived replacement for highly valued sperm whale oil – playing a key role in the introduction + growth of the jojoba industry, and assisting in the “Save the Whales” environmental movement.



At the same time, the founders helped in developing jojoba as a renewable resource for cultivation on arid lands. The jojoba plant is a desert shrub native to the Sonoran Desert of the southwestern US and northwestern Mexico. Jojoba is now commercially farmed on arid lands around the world, often in marginal soils requiring less water than many conventional crops, and has no competing application in food that would affect its availability for use in personal care and cosmetics.



All data, including the formulations and procedures discussed herein, to the knowledge of Vantage, are believed to be correct, reliable and accurate. Please note, however, that Vantage does not warrant or guarantee any accuracy, reliability or completeness of the information contained herein. It is the user's responsibility to determine the suitability and completeness of such information for the user's particular use (including performing any necessary confirmatory tests). Vantage is not responsible or liable for any loss or damage that may occur from the use of this information, nor do we warrant against any patent infringement. Nothing contained herein shall be construed as providing any permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.