Commitment to Sustainability + Social Responsibility

Vantage Specialty Ingredients is a leading global supplier of Naturally Better Solutions™ for use in personal care and cosmetics. Among these solutions, the Jojoba Oil + Derivatives line has a wide range of high quality, naturally-derived, sustainable and innovative products – including:

### Jojoba Oil

- Natural Jojoba Exfoliants: biodegradable alternatives to polyethylene beads
- Natural Jojoba Derivatives

**SUSTAINABLE SOLUTIONS FOR INNOVATIVE BEAUTY PRODUCTS**

Vantage Jojoba Oil + Derivatives are made with environmentally friendly oil that is extracted from jojoba seeds, or with jojoba seed material that remains after oil extraction (seed meal). Jojoba oil has a very unique chemical composition – liquid wax esters similar to those found naturally in skin’s sebum – and therefore is actually not an oil.

Among the many identified plant species in the world, jojoba is the only source of liquid wax esters. These special esters have superior properties compared to all other natural oils, which are composed of triglycerides. As a result, Jojoba Oil + Derivatives are highly versatile, providing a broader range of benefits and functionality than many other natural ingredients, including:

- **Non-Greasy Emolliency**
- **Excellent Lubricity**
- **Smooth, Elegant Feel on Skin and Hair**
- **Exceptional Stability, With a Long Shelf Life and No Risk of Rancidity**

Multitasking ingredients with many anhydrous options available, Jojoba Oil + Derivatives are ideal solutions for creating innovative + sustainable beauty products with a favorable environmental profile. They allow for more simple or waterless formulas containing fewer ingredients to be designed, if desired.

USDA/NOP organic certifications and COSMOS certifications available on specific grades.

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COMMITMENT TO SUSTAINABILITY + SOCIAL RESPONSIBILITY

THE DESERT’S SUSTAINABLE GEM

Jojoba is a shrub native to the Sonoran Desert of the US and Mexico, now cultivated in arid lands around the world including the Patagonian Desert in Argentina. It has many special characteristics which make it an inherently sustainable, renewable source of raw materials for beauty products:

- Long life span, over 100 years in some cases;
- No annual re-planting required as only the seeds are harvested;
- Produces seed oil that is non-perishable, highly stable, and versatile;
- Disease, pest and drought resistant;
- Grows in arid climates, requiring less water than other plants;
- Often farmed on marginal land, in low quality soils unsuitable for many other crops;
- No application in food more favorable to its uses in personal care and cosmetics.

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SUSTAINABILITY + SOCIAL RESPONSIBILITY PRACTICES

Vantage Specialty Ingredients is a leading global supplier of jojoba products – the world’s largest jojoba grower and ingredient producer – and the only vertically-integrated company owning every step in the jojoba supply chain, from farming to oil extraction to derivatives production. This is part of our ongoing commitment to providing:

- High quality jojoba products, made through environmentally friendly methods;
- Traceability to the trusted source of our products;
- Long-term security of supply + reliable service.

We make continuous investments in farming + production, improving harvest yields and expanding capacity in order to continue meeting the fast-growing demand for natural, sustainable beauty products. At the same time, Vantage is committed to following green, sustainable and socially responsible practices which help minimize our impact on the environment, as well as empower people. Our efforts are focused on 3 main areas:

WATER + OTHER SUBSTANCES
LAND, ENERGY AND WASTE
PEOPLE
WATER + OTHER SUBSTANCES

- Drip irrigation system, reduces operating cost and substantially reduces loss to both evaporation and run off. Irrigation efficiency is 40% greater with drip when compared to furrow.

- We farm using sustainable practices, ensuring that soil remains fertile and erosion is prevented. Pest control is only used if absolutely necessary and it is deemed that pest pressure is a significant risk to our crops. If a risk occurs, we only use organic approved methods for pest control. Pest pressure is mostly due to surrounding crops. We are diligent about disease and pest prevention methods, good soil health, selection of the heartiest, best producing young shrubs grown in our greenhouses for replanting, crop rotation, and the use of beneficial bugs and predator insects, helps minimize pesticide use.

LAND, ENERGY AND WASTE

- NO GMO techniques used, only selection of the hardiest, best producing shrubs selected for re-planting.

- Farms have fallow land (untouched natural desert landscape) currently set aside for conservation.

- Upgrades to equipment and facilities allow us to monitor extraction rates to minimize loss and maximize output. Waste is reduced by utilizing all parts of the seed, once oil is extracted the “cake” is sold for use as soil amendment, which improves the physical and chemical properties of soil or composted for later use.

- In Arizona, our electricity used on the farm is 100% hydroelectricity.

PEOPLE

- Commitment to meet or exceed the Social Accountability 8000 standards (SA8000) regarding: health & safety, child labor, forced labor, discrimination, disciplinary practices, working hours and compensation.

- Company sponsoring of events at local schools through donations each year and a continued review to establish new programs.
NATURAL ALTERNATIVES TO POLYETHYLENE BEADS

A wide collection of natural jojoba exfoliants -- biodegradable alternatives to Polyethylene (PE) beads -- are among the sustainable solutions offered by Vantage. The latest addition to this collection, PFJ™-S Beads, was created in response to the demand for natural exfoliants that provide similar efficacy and skin feel to that of PE beads while being cost-effective.

PE beads have been widely used in personal care products, providing gentle yet effective exfoliation. However, concerns about their damaging impact on the environment are growing. They are able to pass through the filters of a wastewater treatment plant eventually flowing into our rivers, lakes and oceans. PE beads are not biodegradable, remaining in the environment as pollutants; they are consumed by marine animals and then passed along in the food chain.

In response to the pollution problem caused by PE beads, campaigns against their use in personal care have been launched by various environmental groups. In addition, legislation has recently been passed, such as the US’s Microbead-Free Waters Act of 2015, which will ban the sale of products containing PE beads in the future.

GREEN TO OUR VERY ROOTS…FROM SAVING THE WHALES TO SAVING NATURAL RESOURCES

For nearly 40 years Vantage has built expertise in the development, production and supply of environmentally friendly beauty ingredients through green, sustainable practices. It began in the 1970s when the Desert Whale Jojoba Company promoted jojoba oil as an extraordinary replacement for whale oil – playing a key role in the introduction and growth of the jojoba industry, and assisting in the “Save the Whales” environmental movement. Sperm whales had been hunted extensively for many years to the brink of extinction. Their highly valued oil was widely used in beauty products thanks to its unique, multifunctional benefits which, as discovered through extensive research, match those provided by jojoba oil.

Today Vantage continues to build upon its proud heritage in helping save the whales:

- Preserving natural resources by offering ingredients with broad innovative uses, made from a renewable jojoba source using eco-friendly methods;
- Protecting the arid lands and desert ecosystems where jojoba is grown by following sustainable farming practices;
- Helping save our rivers, lakes, oceans and marine life by offering a complete line of natural jojoba exfoliants as replacements for PE beads.

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