

## TECHNICAL DATA SHEET

**Product Name:** Sea Buckthorn Infused Oil

**INCI Name:** Sea Buckthorn Extract, Helianthus Annuus Seed Oil, Prunus Amygdalus Dulcis Oil, Tocopherol

**CAS:** 90106-68-6, 8001-21-6, 8007-69-0, 59-02-9

**Chemical Classification:** Mixture

**Functional Category:** Skin Conditioning Agent ~ Occlusive, Skin Conditioning Agent ~ Emollient, Antioxidant

**Description:** Sea Buckthorn Infused Oil is obtained by macerating dried plant material (Sea Buckthorn Extract) in a suitable carrier oil. A blend of sunflower and almond oil serves as the carrier oil, while vitamin E acts as a preservative. Active compounds gradually transfer from the plant material into the oil, enhancing the therapeutic properties of both the oil and the macerated plant. The sunflower oil used is cold-pressed and of the linoleic type (rich in essential linoleic acid with a lower proportion of oleic acid). Sea buckthorn is known for its high content of carotenoids, tocopherols, and essential fatty acids, making this oil a valuable skincare ingredient. Its intense orange color is due to the high concentration of beta-carotene, which acts as a potent antioxidant and promotes skin regeneration. Thanks to its high vitamin E and phytosterol content, this oil improves hydration and protects the skin from external aggressors such as pollution and UV radiation. The presence of omega-7 fatty acids contributes to the restoration of damaged epidermis, while omega-3 and omega-6 help reduce inflammation and irritation. This combination makes it particularly suitable for dry, sensitive, and mature skin, as well as treatments aimed at accelerating regeneration after damage or irritation. Lightweight oils such as sunflower and almond oil allow for faster absorption and a less greasy feel on the skin, whereas denser oils like olive oil prolong the moisturizing effect. The infusion process takes several weeks and occurs under controlled temperature conditions to preserve the delicate bioactive compounds. Sea Buckthorn Infused Oil is used in formulations for hydration, regeneration, and skin protection. It can be incorporated into serums, balms, creams, and oil-based treatments to enhance skin elasticity and accelerate its renewal. Due to its powerful antioxidant and soothing properties, this oil is highly valued in the cosmetic industry, particularly in formulations targeting dry, chapped, and sensitive skin.

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**Bioactive Compounds:** Sea Buckthorn Infused Oil is rich in bioactive compounds that provide strong regenerative, antioxidant, and moisturizing functions. Carotenoids, including beta-carotene, lycopene, and zeaxanthin, are key components that protect the skin from oxidative stress and support epidermal renewal. Their presence not only gives the oil its intense orange color but also enhances the skin's resistance to external aggressors. Tocopherols and tocotrienols, which form active vitamin E, act as powerful antioxidants that protect cell membranes from damage caused by free radicals. These components improve skin hydration and elasticity, slowing down the aging process. The presence of phytosterols, including beta-sitosterol, strengthens the skin barrier, reducing transepidermal water loss and enhancing the skin's overall resistance to irritation and inflammation. Fatty acids such as omega-7 (palmitoleic acid), omega-3 (alpha-linolenic acid), and omega-6 (linoleic acid) play a crucial role in skin regeneration and hydration. Omega-7 is particularly significant as it helps restore damaged skin and accelerates the healing process, while omega-3 and omega-6 aid in reducing inflammatory responses and contribute to strengthening the epidermal structure. Polyphenols found in sea buckthorn, such as quercetin and isorhamnetin, further enhance antioxidant protection and help reduce redness and irritation.

### Benefits:

- Provides strong antioxidant protection due to its high content of carotenoids and vitamin E
- Improves skin hydration and strengthens the protective barrier
- Promotes epidermal regeneration and accelerates the healing of damaged skin
- Reduces inflammation and soothes irritation, making it suitable for sensitive skin
- Helps alleviate redness and restores a healthy, radiant complexion
- Protects the skin from the harmful effects of free radicals and UV radiation
- Enhances skin elasticity and reduces visible signs of premature aging
- Absorbs easily and does not leave a heavy, greasy residue on the skin

**Application:** Sea Buckthorn Infused Oil is rich in bioactive compounds that provide strong regenerative, antioxidant, and moisturizing functions. Carotenoids, including beta-carotene, lycopene, and zeaxanthin, are key components that protect the skin from oxidative stress and support epidermal renewal. Their presence not only gives the

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**Animal Testing:** Not tested on animals

**GMO:** Non-GMO

**Vegan:** Does not contain animal-derived components

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