



# Sal (Shorea) Butter

## Technical Data Sheet

### Product Description

Sal Butter is obtained from the fruit kernels of the tree, Shorea Robusta by physical extraction. Subsequently the butter is carefully refined, bleached and deodorized to obtain a product which meets the stringent requirements for cosmetic applications. It contains mostly C18:0 and C18:1 fatty acids. Sal Butter is solid at room temperature.

### INCI Name:

Shorea robusta seed butter

### CAS no.:

225234-08-2

### Specifications

Appearance: Light yellow solid fat  
Odor: Odorless

|   |           |
|---|-----------|
| Iodine Value (g I <sub>2</sub> /100 g): | 35 – 55   |
| Free Fatty Acid (% oleic acid):         | Max. 1.0  |
| Peroxide Value (meq/kg):                | Max. 10.0 |
| Saponification Value (mg KOH/g):        | 178 – 195 |
| Slip Melting Point (°C):                | 27 – 38   |
| Unsaponifiable Matter (%):              | 0.6 – 2.8 |

### Fatty Acid Composition (%):

|           |       |         |
|-----------|-------|---------|
| Palmitic  | C16:0 | 4 – 18  |
| Stearic   | C18:0 | 34 – 49 |
| Oleic     | C18:1 | 37 – 48 |
| Linoleic  | C18:2 | 0 – 7   |
| Arachidic | C20:0 | 1 – 9   |

|                       |         |
|-----------------------|---------|
| Total Saturated       | 40 - 73 |
| Total Monounsaturated | 37 - 50 |
| Total Polyunsaturated | 0 – 10  |

*Variations in the composition are due to climatic and geographical influences.*

### Use in Cosmetics

Sal Butter is characterised by its high content of stearic acid giving it physical properties comparable with cocoa butter. Sal Butter is designed for cosmetic applications and can be incorporated in high quantities. It gives stable emulsions due to the uniform triglyceride composition with a high oxidative stability. It has good emolliency properties making it a very suitable replacement for many synthetic emolliency enhancers. It has a good softening effect and a good spreadability on the skin. Sal Butter is also used as an ingredient in skin care products, massage creams, make-up and sun care products. It has a protective effect against sunlight. Although Sal Butter does not contain high tocopherol content it has an exceptionally good oxidative stability without addition of antioxidants. This is due to the very low content of polyunsaturated fatty acids. It prevents drying of the skin and the development of wrinkles. It reduces the degeneration of the skin cells and restores the flexibility of the skin.