

## Product information sheet

# Soft paraffin waxes

*special waxes for fango treatment, hand baths, thermotherapy and depilatory waxes*

Issued: March 2011

### Origin

Like paraffin waxes and microcrystalline waxes, soft speciality waxes are produced by means of elaborate refining techniques such as distillation, crystallization (dewaxing) and de-oiling during the processing of petroleum. The unique product characteristics of the soft speciality waxes are due to the mixtures of different paraffin wax components.

### Purity

The products covered by this technical data sheet are liberated almost completely from all impurities and pollutants with the aid of high-pressure hydrogenation, the state-of-the-art purification process. This final production step guarantees the high degree of purity and hence compliance with the purity regulations. One example of such legislation is provided by cosmetic regulations. The special properties of the products are also achieved by selected inclusion of additives approved for cosmetics.

### Chemical structure and properties

The substances can best be described as multi-component blends consisting of saturated hydrocarbons. The carbon chains are of medium length and have a balanced ratio between n-, iso- and cyclo-alkanes. An intelligently devised production process guarantees the right proportion of soft, less crystalline and hard, more crystalline components in the blend and also ensures relatively low solidification points. The chemical structure of the paraffins and the additives employed in some cases have a crucial influence on the product characteristics.

Soft speciality waxes are characterized by their smoothness, mouldability and tack. Due to their low solidification point, they can be applied to the skin in a warm and molten state, causing a pleasant sensation. Both properties together form a unique combination that has made many new applications possible.

### Applications

Depending on the processor, additional additives are included such as resins (for depilatory waxes), minerals and healing earths (for fango treatments) as well as scent and aromas for thermotherapy and hand baths. Hand baths and thermotherapy are used both in the field of exercise physiology and in health and beauty treatments. Many other applications are possible as well. The products in this data sheet are of course employed in other areas of personal care and cosmetics. Soft paraffin waxes, for example, are used as consistency regulators in creams, lotions, soft lip care products and other formulations requiring a paraffin component with elevated softness combined with a low melting and solidification point.

### Approvals

**Cosmetics:** Cosmetics regulations, European cosmetics regulation (No. 1223/2009)

**INCI:** Paraffin

### Supply forms

Please contact us for details of which forms of supply we can offer you.



Please see also our information leaflet "20 facts about our products" as an accompaniment to our product information.

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### Application matrix

	Fango paraffin	Hand baths, thermal therapy	Depilatory wax	Creams & lotions
Sasolwax 4210		•	•	•
Sasolwax 4230	•		•	•
Sasolwax 4444	•	•	•	•
Sasolwax 4586		•		•
Sasolwax 4608		•		•
Sasolwax 5006	•			•
Sasolwax 5217	•			•
Sasolwax 5415	•			•
Sasolwax 6050				•
Sasolwax 6063		•		•
Sasolwax 8020		•		•
Sasolwax 9106	•		•	•

### Product range

Overview of the soft paraffin waxes and their physical properties

	Solidification point °C	Oil content %	Needle penetration at 25 °C mm/10	Viscosity at 100 °C mm <sup>2</sup> /s	Colour
Sasolwax 4210	42 - 44	0.0 - 1.5	50 - 70	2.0 - 4.0	white
Sasolwax 4230	42 - 45	2.0 - 5.0	35 - 100	2.7 - 3.2	white
Sasolwax 4444	46 - 50	0.0 - 5.0	40 - 65	3.0 - 5.0	white
Sasolwax 4586	47 - 49	0.0 - 4.0	40 - 65		white
Sasolwax 4608	46 - 48	0.0 - 1.5	50 - 70	2.0 - 4.0	white
Sasolwax 5006	50 - 52	0.0 - 1.0	28 - 32	3.0 - 5.0	white
Sasolwax 5217	52 - 54	0.0 - 2.5	35 - 45	3.0 - 4.0	white
Sasolwax 5415	52 - 54	0.0 - 1.5	35 - 45		white
Sasolwax 6050	59 - 61	0.0 - 6.0	55 - 65	5.8 - 6.5	white
Sasolwax 6063	44 - 47		60 - 80		white
Sasolwax 8020	46 - 49	2.0 - 4.0	60 - 100		white
Sasolwax 9106	50 - 52	0.0 - 1.0	28 - 32	8.6 - 8.9	white

<sup>1)</sup> Not a constituent part of specifications.

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### Sasolwax 4230

The gas chromatogram shows the typical distribution of C chains and the typical proportion of n- and iso-alkanes. <sup>1)</sup>

