



## PRODUCT DATA SHEET

<b>Product:</b>	Orange Peel wax
<b>Product number(s):</b>	E00068
<b>Description:</b>	<p>Orange Peel Wax is a soft orange vegetable wax obtained from the rind of the orange fruit after separation from orange essential oils and citrus terpenes. The wax protects the fruit against the environment while at the same time allowing breathing and maintenance of water balance. Composition and consistency are similar to lanolin. Orange Peel Wax can be looked upon as a vegetable version of that animal wax. In many formulations it can substitute lanolin. Orange Peel Wax consists of a complex mixture of special esters (ca. 50-65 %, C44-C58), free fatty acids (6-15 %, C14-C22), hydrocarbons (8-15 %, C21-C33), free phytosterols (ca. 4-8 %) and free alcohols. In addition to this Orange Peel Wax contains small amounts of flavonoids, carotenoids, glycolipids and phospholipids which are well known for their anti-oxidant, anti-inflammatory, anti-microbial and sunscreen properties. The phytosterols in Orange Peel Wax act as co-emulsifiers aiding emulsion stability. Orange Peel Wax is an emollient wax with excellent skin feel, contributing to barrier function, sunscreen enhancing and moisture regulation, offering similar protection to the human skin and hair as it does to the fruit.</p>

**Applications:** Emulsions, hair care, sun care, sticks

Specifications / typical values:		
Appearance	Semi-solid	
Melting point (°C)	35 - 60	USP 741 Class II
Concealing point (°C)	30 - 55	ASTM D 938
Drop melting point (°C)	-	ASTM D 3954
Acid value (mg KOH/g)	10 - 30	Eur. Ph. (beeswax)
Ester value (mg KOH/g)	-	Eur. Ph. (beeswax)
Saponification value (mg KOH/g)	70 - 110	Eur. Ph. (beeswax)
Ratio	-	Eur. Ph. (beeswax)
Iodine value (mg I2/100 mL)	-	USP 401
UV adsorption (nm)	-	
Odour	very light orange scent	
Colour	Orange to brown	ASTM D 6045
Ceresin, Paraffins and certain other waxes	-	Eur. Ph. (beeswax)
Fats, Japan wax, rosin and soaps	-	
Glycerol and other polyols	-	Eur. Ph. (beeswax)
Food additives	-	
Penetration (dmm @ 25°C)	-	ASTM D 1321
Total Ash (ppm)	-	
Heavy metals (ppm)	-	USP 231
Peroxide value (mequ/kg)	-	
Hydroxyl number (mg KOH/g)	-	
Remarks	Hydroxy value 10 - 40 mg KOH/g	
GMO	Free of genetically modified organisms (GMO) and complies with EC regulations No 1829/2003 and 1830/2003.	
BSE/TSE	BSE/TSE free	
Animal testing	Not animal tested	
Fragrance allergens	Max. 900ppm d-limonene (INCI=LIMONENE)	
Food allergens, including Gluten	Free	
<b>REGULATORY</b>		
Reach:	Annex V.9 exempt, UVCB	
USA (TSCA):	-	
Australia (AICS):	All ingredients are either listed on the AICS inventory or are exempt.	
China (IECIC):	All ingredients are either listed on the IECIC inventory or are exempt.	
Japan (ENCS):	All ingredients are either listed on the MITI (ENCS) inventory or are exempt.	
Korea (ECL/KECI):	KE-27171, KE-27175	

CTFA/INCI-Name Citrus Aurantium Dulcis Peel Wax

EU-Name Citrus Aurantium Dulcis Peel Cera

Shelf-life 2 years after production date

This document is issued by electronic data processing. According to DIN EN 10204 a signature is not necessary.