

Technical Information

Isopropyl Palmitate

PRD 30528720

Valid since	12.12.2018
Revision	7.1
WF-No.	18561
Page	1 of 4

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Care Chemicals**Emollient****INCI name(s)**

Isopropyl Palmitate

Chemical description

Ester of isopropyl alcohol and palmitic acid

Physical form:

Clear, colorless and nearly odorless oil of intermediate polarity, with a low molecular weight

Molecular weight

approx. 300 g/mol

CASR-No.	Ingredient
142-91-6	Isopropyl Palmitate

Characteristic values

The specifications stated in the paragraphs 'Quality control data' and 'Additional product descriptive data' finally and conclusively describe the properties of the product.

Quality control data

(Data which is used for quality release and is certified for each batch.)

Test property	Specification
Appearance at room temperature	Corresponds to the standard
Odor at room temperature	Corresponds to the standard
Isopropylpalmitate	90.0 - 100.0 %
Acid value	max. 0.5 mg KOH/g
Saponification value	185.0 - 190.0 mg KOH/g
Density (20 °C)	0.852 - 0.854 g/cm ³
Refractive index (20 °C)	1.4380 - 1.4390

Specific methods used for batch release see Certificate of Analysis.

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Page	2 of 4

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Care Chemicals**Additional product descriptive data**

(Data which is proven statistically but not determined regularly.)

Test property	Specification
Hydroxyl value	max. 2.0 mg KOH/g
Cloud point	10 - 15 °C
Viscosity Hoeppler (20 °C)	7.0 - 8.0 mPas

Specific methods used for batch release see Certificate of Analysis.

Storage information**Shelf life**

24 months

Storage temperature

Between + 15 °C and + 30 °C

Storage conditions

In original sealed containers and protected from moisture

Additional information

The product in question has a solidification temperature of 15 °C and therefore when stored at low temperature will quickly solidify. The state is reversible by warming for a limited period without impairing the quality, providing no local overheating occurs. A warm water system is recommended. Under no circumstances may saturated steam or an ambient temperature of more than 50 °C be applied otherwise irreversible damage will occur.

Important notification in regard to material supplied in uncoated steel drums:

Once the lid has been opened the complete contents of the packaging must be processed; the packaging is unsuitable for further storage of remaining residual quantities of material.

As the inside surface of the packaging is uncoated steel and due to moisture from the surrounding air, opened packaging is susceptible to rust from the inside.

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Page	3 of 4

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Care Chemicals**Stabilising additives / Auxiliaries****Preservatives**

not present

Antioxidants

not present

Solvents

not present

Others

not present

General information**Raw material basis**

Vegetable:	(coconut / palm kernel oil)
Petrochemical:	(isopropyl alcohol)

Composition hints for finished product label**INCI Components**

INCI Name (US/EU/CN)	Content
Isopropyl Palmitate	Complete *

* Complete means conclusively describes the substance

Product properties**Solubility**

Ethylether:	very soluble
Chloroform:	very soluble
Petrolether:	very soluble
Ethylalcohol:	very soluble
Paraffin oil:	very soluble
Water:	practically insoluble



We create chemistry

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Page 4 of 4

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Care Chemicals

Miscellaneous information

Example of use

Traditional, fast spreading emollient for modern cosmetic applications.

Intended for use as cosmetic ingredient

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