Composition Text:

Properties:

Solubility: ,

Germs: Germ contents < CFU/g

"Laboratoires Sérobiologiques":

Number of lines:

Data Profile

LANETTE® 16

Producer / Supplier

Cognis Deutschland GmbH & Co. KG
Care Chemicals
D - 40551 Düsseldorf
Tel.: ++49-211-7940-0
Fax.: ++49-211-798-5457

General characterisation

Chemical description
Cetyl alcohol (Hexadecanol)

Mol weight
approx. 240 g/mol

Raw material basis
vegetable (coconut / palm kernel oil)

Labeling information

INCI name(s)
Cetyl Alcohol

Composition hints for finished product label
Cetyl Alcohol
Registrations
Ingredient | CASR-No. | EINECS/ELINCS-No.
--- | --- | ---
36653-82-4 | 2531490 |

Officially listed in / Quality conforms to
JCIC: Cetanol (Ingredient Code 002229)

Manufacturing procedure
usual process for fatty alcohol production

Product properties
Appearance
LANETTE® 16 is a white to light yellowish hydrophilic wax supplied in pellets.

Example of use
On account of its consistency giving characteristics the product is mainly used for viscosity regulation in cosmetic and pharmaceutical O/W emulsions.

Solubility according to Ph. EUR.
- Ethylether: freely soluble
- Chloroform: freely soluble
- Petrolether: practically insoluble
- Ethylalcohol: freely soluble
- Paraffin oil: practically insoluble
- Water: practically insoluble

Solubility

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.)
Appearance: conforms to standard
Odour: conforms to standard

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acid value</td>
<td>max. 0.1</td>
<td>ISO 660</td>
</tr>
<tr>
<td>Saponification value</td>
<td>max. 0.5</td>
<td>ISO 3657</td>
</tr>
<tr>
<td>Iodine number</td>
<td>max. 0.5</td>
<td>ISO 3961 (solvent: chloroform)</td>
</tr>
<tr>
<td>Hydroxyl value</td>
<td>228 - 234</td>
<td>ISO 4326</td>
</tr>
<tr>
<td>Solidification point</td>
<td>47 - 50°C</td>
<td>ISO 3841</td>
</tr>
<tr>
<td>C-chain distribution</td>
<td></td>
<td>Cognis Method 970059-01</td>
</tr>
<tr>
<td>C 14</td>
<td>max. 3 %</td>
<td></td>
</tr>
<tr>
<td>C 16</td>
<td>min. 95 %</td>
<td></td>
</tr>
<tr>
<td>C 18</td>
<td>max. 5 %</td>
<td></td>
</tr>
</tbody>
</table>
Additional product descriptive data
(Data which is proven statistically but not determined regularly.)
Water content max. 0.1 % ISO 4317
Hydrocarbon content max. 0.5 % Cognis Method 50-01

Methods of identification
by means of the characteristic values in particular the hydroxyl value.

By-products and impurities
(not regularly determined)

<table>
<thead>
<tr>
<th>Concentration</th>
<th>Method of analysis</th>
<th>Detection limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amidoamine</td>
<td>HPLC</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Ash</td>
<td>no data available</td>
<td>Ph.EUR.3 2.4.16.</td>
</tr>
<tr>
<td>Arsenic</td>
<td>below detection limit</td>
<td>Ph.EUR.3 2.4.2.</td>
</tr>
<tr>
<td>Boron</td>
<td>not present due to the process</td>
<td>AAS</td>
</tr>
<tr>
<td>Heavy metals (total as Pb)</td>
<td>below detection limit</td>
<td>Ph.EUR.3 2.4.8.</td>
</tr>
<tr>
<td>Chloro organic compounds</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AOX</td>
<td>not present due to the process</td>
<td>external institute</td>
</tr>
<tr>
<td>EOX</td>
<td>not present due to the process</td>
<td>e.g. Indicator</td>
</tr>
<tr>
<td>Dichloro acetic acid</td>
<td>not present due to the process</td>
<td>GC/HPLC</td>
</tr>
<tr>
<td>Diethanolamine</td>
<td>not present due to the process</td>
<td>GC</td>
</tr>
<tr>
<td>Dimethyl sulfate</td>
<td>not present due to the process</td>
<td>Head space GC</td>
</tr>
<tr>
<td>1,4-Dioxane</td>
<td>not present due to the process</td>
<td>Head space GC</td>
</tr>
<tr>
<td>Ethylene chlorohydrin</td>
<td>not present due to the process</td>
<td>Head space GC</td>
</tr>
<tr>
<td>Ethylene oxide</td>
<td>not present due to the process</td>
<td>Lutidin-method</td>
</tr>
<tr>
<td>Formaldehyde</td>
<td>not present due to the process</td>
<td>component of the content</td>
</tr>
<tr>
<td>Fatty alcohol</td>
<td>not present due to the process</td>
<td>no data available</td>
</tr>
<tr>
<td>Glucose</td>
<td>not present due to the process</td>
<td>GC/HPLC</td>
</tr>
<tr>
<td>Iron</td>
<td>no data available</td>
<td>GC</td>
</tr>
<tr>
<td>Magnesium</td>
<td>not present due to the process</td>
<td>component of the content</td>
</tr>
<tr>
<td>Monochloro acetic acid</td>
<td>not present due to the process</td>
<td>GC/HPLC</td>
</tr>
<tr>
<td>Nitrosamine</td>
<td>not present due to the process</td>
<td>GC</td>
</tr>
<tr>
<td>Polysaccharides</td>
<td>not present due to the process</td>
<td>no data available</td>
</tr>
<tr>
<td>Sulphated ash</td>
<td>&lt; 0.2 %</td>
<td>Ph.EUR.3 2.4.14.</td>
</tr>
<tr>
<td>Sulphite</td>
<td>not present due to the process</td>
<td>IC</td>
</tr>
<tr>
<td>Triethanolamine</td>
<td>not present due to the process</td>
<td>DC</td>
</tr>
<tr>
<td>Water</td>
<td>&lt; 0.2 %</td>
<td>DGF C-III 13a / H-III 3a</td>
</tr>
</tbody>
</table>

Stabilising additives / Auxiliaries
(type and concentration)

Preservatives
not present

Antioxidants
not present

Solvents
not present

Others
not present

Microbiological information
Germ content < 100 CFU/g
**Toxicological / Dermatological information**
Information is available for the following tests in:
- Acute oral toxicity (internal record)
- Acute dermal toxicity (CIR)
- Skin irritation (literature)
- Mucous membrane compatibility (literature)
- Mutagenicity in vitro (OECD 471)
- Developing toxicity (OECD screening)
- Skin sensitization (OECD 406)
- Comedogenicity (rabbit ear model)
- Subacute toxicity, oral (OECD 407)

**Ecological information**

**Water hazard class (WGK)**

WGK = nwg, Non-water-endangering product (classification in conformity with Annexes 1+2 of the German VwVwS of 17. Mai 1999).

**Biodegradability**

Ultimate degradability

> "readily degradable"

Two phase closed bottle test

- > 70 % BOD 28/COD (ISO 10634)

**Aquatic toxicity**

- Acute fish toxicity
  - (semi static, 96 h ISO 7346/2, OECD 203)
  - LC50 > 1000 mg product/l (analysis)

- Acute bacteria toxicity
  - (OECD 209)
  - EC0 > 10000 mg product/l

- Acute algae toxicity
  - (OECD 201)
  - EC50 > 600 mg product/l

**Storage and transportation**

LANETTE® 16 should be protected against humidity. In original sealed containers and at temperatures below 30°C the product remains stable for at least two years.

**Miscellaneous**

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