

Product Information

Product number: 620105
Product name: Frescolat® ML

Product Description

Type : Frescolat ML (Menthyl lactate) acts as a cooling agent on the skin. It is a colorless liquid to compact substance.

Cosmetic Raw Material

INCI Names : Global INCI Name : Menthyl Lactate
EU INCI Name : Menthyl Lactate

CAS Number : 61597-98-6

Molecular weight : 228,33 g/mol

Molecular formula : C13-H24-O3

Product Characteristics

Organoleptic Properties

| Code | Parameter | Unit | Lower Limit | Upper Limit |
|------|----------------------------------|------|-------------|-------------------------|
| 0838 | Sensory test | | | comparable to standard |
| 0864 | Color | | | |
| 0864 | Visual evaluation in sample vial | | | colorless |
| 0864 | Appearance/condition | | | |
| 0864 | Visual evaluation in sample vial | | | liquid to solid product |

Chemical-Physical Properties

| Code | Parameter | Unit | Lower Limit | Upper Limit |
|------|--|----------|-------------|-------------|
| 0003 | Specific rotation at 20 degree C. 10 % (w/v) in ethanol 96 vol% | deg*ml/g | | -74,0 |
| 0011 | Acid value Potentiometric titration | mg KOH/g | | 2,0 |
| 0008 | Solidification point | °C | 40,0 | |
| 0467 | Content GLC sum menthylactat isomers | Area % | 98,0 | 100,0 |

For information only

Flash point 123 °C

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Microbiological Properties

Due to the composition of the product no microbiological control will be carried out prior to shipping.

Applications and Recommended Use Levels

Possible Use

Oil soluble cooling ingredient

Applications

Skin care cosmetic, Hair care cosmetics, Deodorants, Foaming gels, After Sun, Colour cosmetics, Oral Care (FEMA 3748, foodgrade)
(lotions, ointments, shampoos etc)

Use Levels

0.1 - 2.0%

Inventories and Registrations

| List and Country | | Status | Number |
|------------------|-----------|--------|-------------|
| EINECS | EU | listed | 241-218-8 |
| TSCA | USA | listed | |
| AICS | Australia | listed | |
| ENCS | Japan | listed | (3)-3279 |
| FDA (21 CFR) | USA | | 182.1 |
| FEMA | USA | | 3748 |
| Custom Tariff | | | 29181100000 |
| FLAVIS | EU | | 09.551 |

Preservatives and Antioxidants

None

Shelf life and Storage conditions

In the original, unopened container, dry, 10 to 30°C storage: 24 months

Standard Packaging

plastic drum

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Additional Information

The product is stable in the pH range of 4 to 7.

Long storage periods above the recommended temperature range (>25°C) might increase the acid value.

This product may show the phenomenon called "supercooling". Supercooling is the process of chilling a liquid below its freezing point, without it becoming solid. A liquid below its melting point will crystallize in the presence of a seed crystal or nucleus around which a crystal structure can form. However, lacking any such nucleus, the liquid phase can be maintained all the way down to the temperature at which crystal homogeneous nucleation occurs - even if the temperature difference is as much as 20 C!. This does not effect the quality or performance of the product.

This is a cosmetic raw material to be used for the manufacturing of cosmetics only.product.

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