

Product Information

Milano, 03-Aug-2017
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Product number: 399952
Product name: Frescolat® ML Cryst. new quality

Product Description

Type : oilsoluble cooling ingredient

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 |
|------|--|------|-------------|------------------------|
| 0223 | Top note | | | comparable to standard |
| 0864 | Color Visual evaluation in sample vial | | | pale white to white |
| 0864 | Appearance/condition Visual evaluation in sample vial | | | crystals |

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 | -85 | -78 |
| 0011 | Acid value Potentiometric titration | mg KOH/g | | 2 |
| 0008 | Solidification point | °C | 42 | |
| 0467 | Content GLC sum menthylactat isomers | Area % | 98,0 | |
| Flash point | | > 100 °C | | |

Microbiological Properties

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

Applications and Recommended Use Levels

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Applications

cosmetic and food products

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 |
| 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

cardboard box

Handling Instructions

Keep tightly closed.

Additional Information

to pH value:
The product is stable in the pH range of 4 to 8.

to acid value and agglomeration:
Long storage periods above the recommended temperature range (>25°C) might increase the acid value. Also, this product may form larger crystals or agglomerates during storage, especially at higher temperatures (>+40°C). Milling will render small crystals again. The quality of the product is unaffected by agglomeration.

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to melting point:

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.

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