

Technical Information

Fresicle® E

PRD 30783155

Valid since 28.10.2022
Revision 1.4

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Care Chemicals**INCI name(s)**

Triethylhexanoin (and) Pentaerythrityl Tetraethylhexanoate (and) Butylene Glycol (and) Pentylene Glycol (and) Castor oil/ IPDI copolymer (and) Glycerin (and) Caprylic/Capric Triglyceride (and) Hydroxyacetophenone (and) Tocopheryl Acetate (and) Hydroxyethylcellulose (and) Acrylates/C10-30 Alkyl Acrylate Crosspolymer (and) Glyceryl Polyacrylate (and) Sodium Hydroxide

Chemical description

Aqueous suspension of aliphatic carboxylic esters, polymers, and stabilizing agents

Physical form:

Colorless droplets suspension

Molecular weight

Mixture

CASR-No.	Ingredient	Remark
7360-38-5	Propane-1,2,3-triyl 2-ethylhexanoate	
7299-99-2	2,2-Bis[[[(2-ethyl-1-oxohexyl)oxy]methyl]propane-1,3-diyl bis(2-ethylhexanoate)	
107-88-0	Butane-1,3-diol	
5343-92-0	Pentane-1,2-diol	
2097847-57-7	Castor oil, polymer with 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane	
56-81-5	Glycerol	
73398-61-5	Glycerides, mixed decanoyl and octanoyl	
99-93-4	4'-Hydroxyacetophenone	
7695-91-2	3,4-Dihydro-2,5,7,8-tetramethyl-2-(4,8,12-trimethyltridecyl)-2H-benzopyran-6-yl acetate	
9004-62-0	Cellulose, 2-hydroxyethyl ether	
139637-85-7	Acrylates/C10-30 Alkyl Acrylate Crosspolymer	
9003-01-4	2-Propenoic acid, homopolymer	
1310-73-2	Sodium hydroxide	

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Care Chemicals**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	Test method
Appearance	Corresponds to standard	Internal method
Odor	Corresponds to standard	Internal method
pH (as is, 25 °C)	5.0 - 6.0	GB/T 13531.1
Viscosity (RVT sp 5; 20 rpm, 25 °C)	7000 - 15000 cps	Internal method

Additional product descriptive data

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

Test property	Specification	Test method
Density (25 °C)	1.000 - 1.200 g/cm ³	GB/T 2013

Storage information**Shelf life**

12 months

Storage temperature

Keep the storage temperature between + 15 °C and + 30 °C

Storage conditions

In original sealed containers and protected from moisture

Additional information

Because Fresicle™ E is the high concentration of oil droplets, if it is stored at temperature lower than 0 °C, sample may be frozen that will break the droplets. If it is stored at the temperature higher than 40 °C, droplets may coalesce. The appearance of the droplets will change and cannot recovery. Please ensure the temperature required during transportation and storage.



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Care Chemicals

Stabilising additives / Auxiliaries

Preservatives

not present

Antioxidants

Hydroxyacetophenone; Tocopheryl acetate; Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate

Solvents

not present

Others

Sodium benzotriazolyl butylphenol sulfonate, Buteth-3, Tributyl citrate

General information

Raw material basis

Vegetable: (coconut/palm kernel oil)
Petrochemical
Synthetic

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

INCI Name (US/EU/CN)	Content
Triethylhexanoïn	18.0 - 25.0 %
Pentaerythrityl Tetraethylhexanoate	4.0 - 8.0 %
Butylene Glycol	1.0 - 6.0 %
Pentylene Glycol	1.6 - 6.0 %
Castor oil/IPDI copolymer	1.0 - 4.0 %
Glycerin	0.5 - 2.0 %
Caprylic/Capric Triglyceride	0.25 - 1.00 %
Hydroxyethylcellulose	0.05 - 0.20 %
Acrylates/C10-30 Alkyl Acrylate Crosspolymer	0.05 - 0.20 %
Glyceryl Polyacrylate	0.03 - 0.05 %
Sodium Hydroxide	0.005 - 0.020 %

Auxiliaries

INCI Name (US/EU/CN)	Content
Hydroxyacetophenone	0.2 - 0.7 %
Tocopheryl Acetate	0.1 - 0.3 %
Pentaerythrityl Tetra-di-t-butyl Hydroxyhydrocinnamate	0.01 - 0.05 %
Sodium Benzotriazolyl Butylphenol Sulfonate	0.00175 - 0.007 %
Buteth-3	0.0035 - 0.014 %
Tributyl Citrate	0.00025 - 0.001 %

Water Content**Content**
50.0 - 70.0 %**Miscellaneous information****Example of use**

Fresicle™ E is the oil droplets concentrated suspension. It has transparent appearance and excellent texture, which is easy to be used and can make skin essence product. Recommended dosage is 20-30 % in final formulation.



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Care Chemicals

Intended for use as cosmetic ingredient

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