

---

## Technical Information

---

November 2008  
Supersedes issue dated August 2006

---

EMM 041202e-02/Page 1 of 6

---

# Luvitol<sup>®</sup> EHO

® = Registered trademark of BASF SE

**Oil component for cosmetic preparations.**

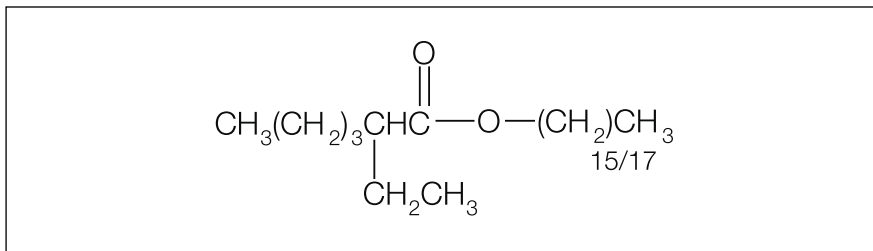
  
The Chemical Company

Personal Care  
Ingredients

**Chemical nature** Cetylstearyl 2-ethylhexanoate

**INCI name** Cetearyl Ethylhexanoate

**Structural formula**



**CAS-No.** 59130-69-7

**PRD-No.** 30035151

**Properties**

Luvitol EHO is a colourless, readily emulsifiable oil with a faint inherent odour. It imparts a smooth glossy appearance to preparations, and renders the skin soft and supple.

Luvitol EHO is freely miscible with vegetable, mineral and synthetic oils and fats.

By virtue of its branched-chain structure, it is a high spreading and a low fattening emollient.

Luvitol EHO is an oil component that is closely related to the biological fats of the skin and is used as a base oil in the production of a wide variety of cosmetic and pharmaceutical preparations. It is eminently suitable as a component of the fatty phase in oil-in-water and water-in-oil emulsions that are easy to spread and can be readily absorbed by the skin.

**Appearance** Colourless to yellowish (oil)

**Specification** See separate documents "Standard Specification (not for regulatory purposes)" available via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

**Application** Luvitol EHO is a cosmetic oil, which can be used in all kinds of cosmetic preparations. It is dedicated as a component of the fatty phase in oil-in-water and water-in-oil emulsions.

**Storage/Stability**

The shelf life of Luvitol EHO in unopened original container stored at room temperature is at least 24 months.

**Toxicology**

The use of Luvitol EHO in cosmetic preparations has been the subject of toxicological studies. The results obtained did not yield any indications of toxicological hazards when the product was applied in the recommended concentrations for the recommended applications. Documentation on the experiments performed will be given under Secrecy Agreement.

**Typical formulations****Sun Protection Lotion, type O/W****No. 53/00117**

	%	Ingredients	Supplier	INCI name
A	7.00	Uvinul® MC 80	(1)	Ethylhexyl Methoxycinnamate
	0.50	Cremophor® CO 40	(1)	PEG-40 Hydrogenated Castor Oil
	3.00	Uvinul M 40	(1)	Benzophenone-3
	15.00	Luvitol® EHO	(1)	Cetearyl Ethylhexanoate
	q.s.	Perfume		
B	0.30	Pemulen TR-1	(6)	Acrylates/C10-30 Alkyl Acrylate Crosspolymer
	0.50	Carbopol 940	(6)	Carbomer
	66.97	Water, dem.		Aqua
	3.00	Glycerin 87%		Glycerin
	0.03	Edeta® BD	(1)	Disodium EDTA
	q.s.	Preservative		
	2.00	Uvinul MS 40	(1)	Benzophenone-4
C	1.70	Triethanolamine Care	(1)	Triethanolamine

**Production:**

Allow phase A to swell. Mix phase B, stir it into phase A and homogenize well. Neutralize with phase C and homogenize again.

**Properties:**

Viscosity: approx. 7,000 mPa·s Haake Viscotester VT-02  
pH value: approx. 6

**Sun Screen Oil****No. 53/00052**

	%	Ingredients	Supplier	INCI name
	30.00	Miglyol 812	(11)	Caprylic/Capric Triglyceride
	20.00	Luvitol® EHO	(1)	Cetearyl Ethylhexanoate
	2.00	Uvinul® T 150	(1)	Ethylhexyl Triazone
	3.00	Uvinul M 40	(1)	Benzophenone-3
	3.00	Uvinul MC 80	(1)	Ethylhexyl Methoxycinnamate
	1.00	Vitamin E Acetate	(1)	Tocopheryl Acetate
	0.20	DL-alpha-Tocopherol	(1)	Tocopherol
	10.80	Paraffin Oil		Mineral Oil

**Production:**

Weigh out the components and dissolve them clearly.

**Skin Conditioning Cream, Type O/W****No. 50/00129**

	%	Ingredients	Supplier	INCI name
A	4.00	Cremophor® CO 40	(1)	PEG-40 Hydrogenated Castor Oil
	0.30	Cremophor WO 7	(1)	PEG-7 Hydrogenated Castor Oil
	8.00	Luvitol® EHO	(1)	Cetearyl Ethylhexanoate
	5.00	Paraffin Oil		Mineral Oil
	5.00	Grape Seed Oil		Grape (Vitis Vinifera) Seed Oil
	5.00	Macadamia Nut Oil		Macadamia (Ternifolia) Nut Oil
	5.00	Jojoba Oil		Jojoba (Buxus Chinensis) Oil
	3.00	Dow Corning 345 Fluid	(16)	Cyclopentasiloxane, Cyclohexasiloxane
	3.00	Cutina GMS	(27)	Glyceryl Stearate
	2.00	Lanette O	(27)	Cetearyl Alcohol
	0.40	Bisabolol nat.	(1)	Bisabolol
	0.50	DL-alpha-Tocopherol	(1)	Tocopherol
	0.30	Carbopol 934	(16)	Carbomer
B	3.00	D-Panthenol 50 P	(1)	Panthenol, Propylene Glycol
	0.30	Triethanolamine Care	(1)	Triethanolamine
	q.s.	Preservative		
	2.00	1,2-Propylene Glycol Care	(1)	Propylene Glycol
	53.20	Water, dem.		Aqua
C	q.s.	Perfume		

**Production:**

Heat phases A and B separately to about 80°C.

Stir phase B into phase A whilst homogenizing and continue homogenizing for a while. Cool to about 40°C, add phase C and homogenize again.

**Properties:**

Viscosity: approx. 15,000 mPa·s Haake Viscotester VT-02

pH value: approx. 6

**Suppliers**

1. **BASF SE**  
67056 Ludwigshafen, Germany  
Tel.: +49(621) 60-0  
Fax: +49(621) 60-42525  
www.basf.com
6. **Noveon Inc.**  
9911 Brecksville Road, OH 44141 Cleveland, USA  
Tel.: +1(216) 447-5000  
Fax: +1(216) 447-5250  
www.noveon.com
11. **Sasol Germany GmbH – Witten**  
Arthur-Imhausen-Str. 92, 58453 Witten/Ruhr, Germany  
Tel.: +49(2302) 925-537  
Fax: +49(2302) 925-358  
www.sasol.com
16. **Dow Corning Corporation**  
2200 West Salzburg Road, MI 48686 Midland, USA  
Tel.: +1(517) 496-6000  
+1(800) 248-2481  
Fax: +1(517) 496-6974  
www.dow.com
27. **Cognis Deutschland GmbH – Care Chemicals**  
Henkelstraße 67, 40191 Düsseldorf-Holthausen, Germany  
Tel.: +49(211) 7940-2289  
Fax: +49(211) 798-2016  
www.cognis.com

**Note**

This document, or any answers or information provided herein by BASF, does not constitute a legally binding obligation of BASF. While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. It does not relieve our customers from the obligation to perform a full inspection of the products upon delivery or any other obligation. NO WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET FORTH, OR THAT THE PRODUCTS, DESIGNS, DATA OR INFORMATION MAY BE USED WITHOUT INFRINGING THE INTELLECTUAL PROPERTY RIGHTS OF OTHERS. IN NO CASE SHALL THE DESCRIPTIONS, INFORMATION, DATA OR DESIGNS PROVIDED BE CONSIDERED A PART OF OUR TERMS AND CONDITIONS OF SALE.

November 2008

