

## Product specification

**Material** TEGO SOLVE 61 MB  
**Spec.Code** K00 STANDARD

### Evonik Nutrition & Care GmbH

Business Line Care Solutions  
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Inspection Characteristics	Method	Limits	Units	Z
Colour to Gardner	GM_0140_01	< = 4.0	Gardner	X
Acid Value	GM_0010_01	< = 5.0	mg KOH/g	X
Saponification Value	GM_0030_01	68.0 - 80.0	mg KOH/g	X
Water Content	GM_0080_01	11.0 - 13.0	%	X
Appearance 25°C	GM_0170_00	OK		X

Appearance 25°C OK

Report on inspection certificate: X = specific/actual value, C = unspecific value/conformity, T = not reported

Appearance 25°C: clear to slightly turbid liquid

This product contributes to the production of certified sustainable palm oil according to the rules set out by RSPO Supply Chain Mass Balance (MB).

RSPO Certification Number: RSPO-V-14-13553.

This document is computer printed and therefore valid without signature.

All warranty claims in respect of the conformity of our product are subject to our General Terms and Conditions of Sale and Delivery. The data listed above reflects the criteria for our internal quality tests. We do not hereby make any express or implied warranty, whether for specific properties or for fitness for any particular application or purpose. All values are valid for the product when despatched from the works.

The Standard Test Methods can be obtained from specialized publishers. Evonik's test methods are available on request.

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Print date: 04.02.2019	Valid from: 01.02.2019	Version: 5	

## TEGO® Solve 61 MB

### Product data record (PDR)

#### 1. General information

##### 1.1 Supplier

Evonik Nutrition & Care GmbH  
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Goldschmidtstrasse 100  
D-45127 Essen / Germany  
[personal-care@evonik.com](mailto:personal-care@evonik.com)  
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##### 1.2 Product Description

TEGO® Solve 61 MB is in full compliance with the current Cosmetic Regulation (EC) No. 1223/2009.

##### 1.2.1 Raw Material Category/Function Solubilizer

##### 1.2.2 INCI Declaration

Polyglyceryl-6 Caprylate; Polyglyceryl-3 Cocoate; Polyglyceryl-4 Caprate; Polyglyceryl-6 Ricinoleate

##### 1.2.3 Composition

Components (INCI EU/US)	Source	Percentage
Polyglyceryl-6 Caprylate	vegetable	17 - 27 %
Polyglyceryl-3 Cocoate	vegetable	17 - 27 %
Polyglyceryl-4 Caprate	vegetable	17 - 27 %
Polyglyceryl-6 Ricinoleate	vegetable	17 - 27 %
Water		11 - 13 %

This composition information serves for information of our customers only.  
It is neither relevant for the composition listing according to Regulation (EC) No 1223/2009, nor does it reflect the chemical composition according to the different chemical regulations in the world which is disclosed in the table "information on ingredients/hazardous components" in the relevant parts of the respective (Material) Safety Data Sheets.

#### 1.2.4 Additives (Preservatives/Antioxidants)

INCI	CAS No.	EINECS / EC No.	content	Function
no additives				

Unless mentioned in our PDR under section 2.1 (By products) or 2.2 (CMR), no components which are listed in Annex II of the Regulation (EC) No 1223/2009 and its modifications and updates are added to and are not to be expected in the above mentioned product due to the raw materials used and the production process.

## 2. Production Process

### General Information of Production Process:

Esterification of fatty acids with polyglycerin.

Irradiation: TEGO® Solve 61 MB was not irradiated with  $\gamma$ -rays.

TEGO® Solve 61 MB is produced in the strictest absence of any animal derived material of any type.

Residual plant based source (dominant origin of main constituents): rape / canola (Brassica), palm (Elaeis guineensis)

CITES: TEGO® Solve 61 MB is not based on raw materials from species listed in CITES appendices.

### GMO-Status:

The item does not contain ingredients that might have been derived from GM sources. However max 0.9 % cross-contamination is possible. Any protein or DNA is not present. Consequently the product will be PCR negative when tested.

### 2.1 By products/Impurities

Potentially occurring by – products are not added intentionally. Impurities e.g. residual solvents are technically unavoidable.

Residual organic solvents	not applicable
Dichloroacetic acid	not applicable
Monochloroacetic acid	not applicable
Free amines	not applicable
Pesticides	meets the valid regulatory requirements for limits on agricultural pesticides
Nitrosamines	not applicable
Total heavy metals	max. 20 ppm
As, Cd, Co, Cr, Hg, Ni, Pb, Sb	Each < 1 ppm
Latex	not to be expected in the product due to the raw materials used and the production process

VOC	< 3 % according to SR (Swiss Right) 814.018
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## 2.2 CMR Substances

According to Cosmetic Regulation 1223/2009 the use of substances classified as CMR (Carcinogenic, Mutagenic or Reprotoxic) substances of category 1A or 1B or 2, under Part 3 of Annex VI to Regulation (EC) No 1272/2008 in cosmetic products shall be prohibited.

Some of the CMR substances mentioned below and listed in Annex VI to Regulation (EC) 1272/2008 may be used as starting materials or solvents for the production of our cosmetic raw materials and may require reporting under California Proposition 65 or the California Safe Cosmetics Act, SB 484.

The presence of these substances has to be seen as non-intended and it is technically unavoidable in good manufacturing practice. Traces of CMR substances can derive from impurities of the starting materials or the manufacturing process.

CMR Substance	CAS No.	Starting material	Max. concentration/ Remark
Ethylene Oxide	75-21-8	no	
Propylene Oxide	75-56-9	no	
Octamethylcyclotetrasiloxane (D4)	556-67-2	no	
2-Ethylhexanoic Acid	149-57-5	no	
n-Hexane	110-54-3	no	
Methyl Chloride	74-87-3	no	
Dimethyl Sulphate	77-78-1	no	
1,4-Dioxane	123-91-1	no	
Formaldehyde	50-00-0	no	For more information on formaldehyde please refer to our factsheet available via our IntoBeauty website. <a href="https://intobeauty.evonik.com/">https://intobeauty.evonik.com/</a>

## 2.3 "Allergens" according to the Regulation (EC) No 1223/2009

The presence of substances, the mentioning of which is required under the column 'Other' in Annex III of Cosmetic Regulation 1223/2009, shall be indicated in the list of ingredients in addition to the terms "Perfume" or "Aroma".

None of those substances have been intentionally added to our cosmetic ingredients or are formed during the manufacturing process according to our knowledge of the chemistry. An analytical proof for the absence of traces of those substances is not performed in our cosmetic ingredients.

## 2.4 Food Ingredients listed in Annex II of Regulation (EU) No 1169/2011

None of these substances have been intentionally added to our cosmetic raw materials or are formed during the manufacturing process according to our knowledge of the chemistry.

## 2.6 Nanomaterial

The product is not a nanomaterial according to the definition given by Cosmetic Regulation (EC) No 1223/2009, the Commission Recommendation 2011/696/EU and the French Decree No. 2012-232. For details, a separate statement is available on request.

## 2.7 Substances of Very High Concern (SVHC)

The candidate list of substances of very high concern is regularly updated and published by ECHA. If applicable, the information on the substance/s from the candidate list, contained in our product in reportable amounts, is included in section 3 of the product related Safety Data Sheet (SDS).

## 2.8 Country of Origin

TEGO® Solve 61 MB is manufactured in: Germany

## 3. Animal Testing

We hereby confirm that we have never conducted any animal tests with our product TEGO® Solve 61 MB nor that we have ordered such tests at third parties or third parties have conducted such tests with our knowledge and acceptance to fulfil the requirements of Cosmetic Regulation (EC) No. 1223/2009.

Therefore TEGO® Solve 61 MB is in full compliance with Cosmetic Regulation (EC) No. 1223/2009.

## 4. Microbiological Status

Total Viable Count	max. 100 cfu/g
Pathogens*	absent/g

\*Pathogens are: Enterobacteria, Pseudomonas, Enterococci, Candida albicans, Staphylococci

## 5. Shelf life / Storage Conditions

720 days after production (unopened original packaging)

## 6. Regulatory Status

6.1	HS-Code	340290
	EU-CN-Code	34029010

## 6.2 Regulatory status (chemical regulations)

### Europe

Components	REACH status	CAS No.	EINECS / EC No.
1,2,3-Propanetriol, homopolymer, octanoate / Polyglyceryl-6 Caprylate	Polymer	108777-93-1	Polymer
Fatty acids, coco, monoesters with triglycerol / Polyglyceryl-3 Cocoate	Polymer	1096160-92-7	Polymer
1,2,3-Propanetriol, homopolymer, decanoate / Polyglyceryl-4 Caprate	Polymer	74504-65-7	Polymer
1,2,3-Propanetriol, homopolymer, (9Z,12R)-12-hydroxy-9-octadecenoate / Polyglyceryl-6 Ricinoleate	Polymer	68936-89-0	Polymer

### Other countries

Country		yes / no	Remark
<b>Polyglyceryl-6 Caprylate</b>			
Australia	AICS:	no	registration maybe initiated on request
China	IECSC:	yes	
Taiwan	TCSI:	yes	
<b>Polyglyceryl-3 Cocoate</b>			
Australia	AICS:	no	registration maybe initiated on request
China	IECSC:	no	Import up to 10 t/year by Evonik Specialty Chemical (Shanghai) Co., Ltd. approved
Taiwan	TCSI:	no	registration maybe initiated on request
<b>Polyglyceryl-4 Caprate</b>			
Australia	AICS:	no	
China	IECSC:	yes	
Taiwan	TCSI:	yes	
<b>Polyglyceryl-6 Ricinoleate</b>			
Australia	AICS:	yes	
China	IECSC:	yes	
Taiwan	TCSI:	yes	
<b>For the whole reaction mass under CAS No. 1588911-75-4</b>			
Canada	DSL NDSL	no	but notified by Evonik Canada Inc. for up to 10 t/year

In the following countries the relevant authorities currently do not require pre-market approval for cosmetic raw materials:

Brazil, Japan, South Korea, Philippines, USA

#### 6.2.1 Regulatory status (cosmetic regulation)

Country		yes / no	Remark
<b>Polyglyceryl-6 Caprylate</b>			
China	CFDA:	yes	IECIC No. 03873
Japan	JSQI: JCIA:	no yes	JCIA No. 555293
<b>Polyglyceryl-3 Cocoate</b>			
China	CFDA:	yes	IECIC No. 03838
Japan	JSQI: JCIA:	no yes	JCIA No. 562070
<b>Polyglyceryl-4 Caprate</b>			
China	CFDA:	yes	IECIC No. 03846
Japan	JSQI: JCIA:	no yes	JCIA No. 559982
<b>Polyglyceryl-6 Ricinoleate</b>			
China	CFDA:	yes	IECIC No. 03862
Japan	JSQI: JCIA:	no yes	JCIA No. 552691

## 7. Toxicology and Ecotoxicology

Refer to our document: "Summary of Product Data with Reference to Toxicology and Ecology"

## 8. Packaging

800 kg (4 x 200 kg drum)