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**Total**

December 2019

**Independent assurance report on the award of the "Total Ecosolutions" label to the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products**

EY & Associés



## Total

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### Independent assurance report on the award of the "Total Ecosolutions" label to the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products

Further to your request, we have performed a review in order to obtain reasonable assurance that the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products, a description of which can be found on the web site [www.total.com](http://www.total.com)<sup>1</sup> and in the external file dated November 18<sup>th</sup>, 2019, has obtained the "Total Ecosolutions" label in accordance with the "Total Ecosolutions Guidelines" in its version 5 dated June, 3<sup>rd</sup> 2016 (hereafter referred to as the "Guidelines"). The Guidelines, an abridged version of which can be downloaded from the web site [www.total.com](http://www.total.com)<sup>1</sup>, have been established on the basis of the ISO 14020 and ISO 14021 standards and were the subject of a preliminary external review which gave rise to the issue of an independent report on their design, this report also being accessible on [www.total.com](http://www.total.com)<sup>1</sup>.

We conducted our review in accordance with international standard ISAE 3000 (International Standard on Assurance Engagements) defined by IFAC (International Federation of Accountants). It is the responsibility of Total to regularly update the Guidelines, to ensure that they are made available to internal users and third parties, and to apply the Guidelines. It is our responsibility to express, on the basis of our review, a conclusion on the award of the "Total Ecosolutions" label to the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products.

#### Nature and scope of our review

To express our opinion, we performed the following procedures:

- We have assessed the consistency, accuracy, understandability, neutrality, completeness and relevance of the Guidelines and of the constituents of the "Total Ecosolutions" label request file for products and services.
- We have conducted interviews with people in charge of preparing the label request file, and analyzed the available documentation (aiming at justifying the methods of evaluation of the product's overall environmental impact and of the comparative performance evaluation with the reference product). We have also reviewed the documents used during the validation process by the "Total Ecosolutions" Management Committee, in order to identify any risks of deviation in

<sup>1</sup> Exact address: [www.ecosolutions.total.com](http://www.ecosolutions.total.com)

relation to the label award process defined in the Guidelines. However, the scope of our work did not include the verification of data used as sources for the calculation.

To conduct the aforementioned procedures, we called on members of our teams specialized in environment and sustainable development.

### Information or explanations

- The Guidelines aim to define the rules for the award of the "Total Ecosolutions" label, the organization and responsibilities, the methods for assessing the level of environmental performance and verifying the compliance with the Guidelines, the internal and external communication procedures as well as the rules for document management, in accordance with the requirements of ISO 14020 and ISO 14021 standards.
- The "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products belong to the family of hydrocarbon oils and are used as low viscosity emollients in the formulation of cosmetic products (body products, face care, sunscreens and after sun, makeup products, makeup removers and / or capillaries). They are classified biodegradable (*readily biodegradable*) as opposed to:
  - o Silicone oils that are vPvB (*very persistent very bioaccumulative*) within the meaning of Annex XIII of the REACH regulation;
  - o Iso-paraffins and mineral oils.
- The assessment of the environmental and health performance of the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products has been assessed by comparison, for an equivalent service provided, with a reference product that has been adapted to the studied markets:
  - o Silicone oils which represent more than half of the low viscosity emollient for cosmetics global market;
  - o Mineral oils which represent a quarter of the same market.
- The comparative assessment of the global environmental impact of the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products has been assessed on the basis of a quantitative evaluation of their biodegradability (OECD 301 standardized test) and a life cycle analysis study. Additionally, *in vitro* and *in vivo* tests have demonstrated their non-comedogenic, non-sensitizing and non-irritating to eyes, skin and mucous membranes properties (for instance the *in vitro* HET CAM test widely used in cosmetics and which method is published in the JORF, dated 12/26/1996).
- The functional unit considered is "Ensuring a low viscosity emollient function in a cosmetic preparation".
- The substitution of silicone oil, iso-paraffin or mineral oil by the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products can be achieved in 1: 1 proportions.
- The environmental benefit considered significant and validated by the "Total Ecosolutions" Management Committee of the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products is, in comparison with the silicon and mineral oils, to be *readily biodegradable* and to reduce greenhouse gases emissions by 89% compared to silicon oils, on the other hand, it is the absence of classification for the environment as well as the non-comedogenic, non-sensitizing and non-irritating to eyes, skin and mucous membranes properties.



- **Conclusion**

In our opinion, the "Gemseal 25, Gemseal 40, Gemseal 60 and Gemseal 120" products have been awarded the "Total Ecosolutions" label, in all its significant aspects, in accordance with the Guidelines.

Paris-La Défense, December the 20<sup>th</sup>, 2019

EY & Associés  
Sustainability Services

A handwritten signature in black ink, consisting of a long horizontal line with two large, stylized 'S' characters above it.

Christophe Schmeitzky