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Total

December 2016

Independent assurance report on the award of the “Total Ecosolutions” label to the “Scriptane PW” range of products.

ERNST & YOUNG et Associés



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Further to your request, we have performed a review in order to obtain reasonable assurance that the “Scriptane PW” range of products, a description of which can be found on the web site www.total.com¹ and in the external datasheet dated December 2, 2016, has obtained the “Total Ecosolutions” label in accordance with the version 5 of the “Total Ecosolutions Guidelines” dated June 3, 2016 (hereafter referred to as the “Guidelines”); the Guidelines, which can be downloaded from the web site www.total.com¹, 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.com¹.

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 “Scriptane PW” range of products.

Nature and scope of our review

To express our conclusion, we performed the following review:

- We have assessed the reliability, accuracy, understandability, neutrality, completeness and relevance of the Guidelines and the constituents of the “Total Ecosolutions” label request file for products and services.
- We have conducted interviews with the persons in charge of preparing the label request file, and analyzed the documentation available (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 meeting minutes and documents used during the validation process by the “Total Ecosolutions” Labelling Committee and the Total Ecosolutions Management Committee, in order to identify any risks of deviation in 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.

¹ Exact address: <http://www.total.com/total-ecosolutions>

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 the ISO 14020 and ISO 14021 standards
- Products of the “Scriptane PW” range are dearomatized distillates of various grades, used in the manufacturing of Offset printing inks. This products have a very low content of Polycyclic Aromatic Hydrocarbon (PAH) compared to the other available technologies.
- Two reference products were chosen in order to address properly the studied issues:
 - For the toxicological analysis, the performances of the “Scriptane PW” range of products were compared to 6 among the main references on the distillates for Offset printing ink market. These 6 references were chosen by Total distillate market experts.
 - For the environmental analysis, the reference used is a product made of different petroleum distillates, with a 10 to 30% share in aromatics, representative of the “Scriptane PW” range main competitors.
- The assessment of the health performance of the “Scriptane PW” range of products and of the reference products is based on the analysis of the content of PAH classified as having priority according to the US Environmental Protection Agency and the World Health Organization. This content is measured in benzo(a)pyrene equivalent which allows to compare the toxicity level of various PAH. The method applied for the analysis is not standardized but is internationally recognized.
- The dearomatization stage necessary to reduce the PAH content leads to an increase in energy consumption and greenhouse gases emissions during the production phase by 30%, compared to the reference product. This transfer of impact is considered non-significant compared to the health performance improvement.
- The benefit considered significant and validated by the “Total Ecosolutions” Management Committee is a reduction of a factor between 60 and 535 of the PAH content in comparison to the reference products.

Conclusion

In our opinion, the “Scriptane PW” range of products has been awarded the “Total Ecosolutions” label, in all its significant aspects, in accordance with the Guidelines.



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