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# ANALYTICAL REPORT

9 May 2017

## *Sample Data*

Sampled by: Engineering Chemicals B.V., Steenbergen, The Netherlands  
Code: Supernova LTH  
Supernova LTF  
Supernova LT  
Supernova ST  
Supernova HT  
Supernova CC  
Supernova CX  
Description: Cleaning granulates

## *Legislative context*

The report, the experiments described and the conditions used to obtain the results presented are based on the following legislation:

- Commodity Act Packaging and Food Utensils Regulation of The Netherlands of 20 November 1979 and its amendments up to and including VGP/PSL 2792080 of 21 August 2007
- EU Directive 82/711/EEC of 18 October 1982 and its subsequent amendments up to and including EU Directive 97/48/EC of 29 July 1997
- EU Directive 85/572/EEC of 19 December 1985
- Regulation (EC) No. 1935/2004 of 27 October 2004
- EU Directive 2002/72/EC of 6 August 2002 and its amendments up to and including 2008/39/EC of 7 March 2008
- Commission Regulation (EC) No. 2023/2006 of 22 December 2006
- FDA 21 CFR of the USA

An interpretation of the above legislation was made for the products to be investigated, as is outlined below. The interpretation was used for the administrative check, the selection of the tests and the evaluation of the results. In the report the legislation used for this interpretation will be referred to as „Relevant Legislation“.

The cleaning granulates are used as cleaning products for injection moulding machines and extruders. They are not meant to come in contact with food and they are not used as food packaging materials. The cleaning granulates are based on olefin polymers. Cleaning granulates are only regulated on European level by Article 3 of the Framework Regulation (EC) No. 1935/2004 (food contact materials may not endanger human health and bring about an

unacceptable change in the composition of foodstuffs); to ensure this the sample was tested according the requirements of the Commodity Act Packaging and Food Utensils Regulation of The Netherlands, chapter I. Olefin polymers are regulated in the USA under 21 CFR 177.1520.

Because a food approval was requested by the client, Plastics Evalu-Aid OHG has selected which experiments had to be performed (overall and specific migrations, residual contents, extraction tests etc. as described in detail in the method section) based on the information that was supplied about the composition, the application of the „Sample“ and the legislation with which the „Sample“ has to comply with. Because the contact with food is minimal/absent, no overall migrations or specific migrations or residual contents have to be performed.

### *Methods applied*

Administrative check of the composition: The composition of the „Samples“ has been disclosed to Plastics Evalu-Aid OHG confidentially by the client and/or its (sub)-supplier(s). The composition provided is considered to be complete and true. The composition was checked against the positive lists of the „Relevant Legislation“. No tests are needed in view of the „Legislation“.

### *Results*

Administrative check of the composition: The composition of the „Samples“ has been disclosed to Plastics Evalu-Aid OHG confidentially. All components are listed on the positive lists of the „Relevant Legislation“.

### *Conclusions*

The composition provided is in compliance with the requirements specified in the „Relevant Legislation“. The composition of the „Sample“ provided by the client and/or its (sub)-supplier(s) is considered to be complete and true. Based on the information that was supplied about the composition, the application of the „Sample“ and the „Relevant Legislation“, no migration tests have to be performed.

In conclusion, regarding the qualitative composition as described above, the use of the „Samples“ as cleaning granulate which are not intended to come in direct contact with food, can be considered to be not detrimental to public health, as is required by Regulation (EC) No. 1935/2004 of 27 October 2004.

In conclusion, the „Samples“ can be considered to be suitable for the use as cleaning granulate for injection moulding machines and extruders, which are not intended to come in direct contact with food according FDA 21 CFR of the USA of 1 April 2007.

The cleaning granulates should be properly used according Commission Regulation (EC) No. 2023/2006 of 22 December 2006 on good manufacturing practice for materials and articles intended to come in contact with food.

In the final application no deterioration in the organoleptic characteristics of the food may occur (according to the requirements of Article 3 of the Regulation (EC) No. 1935/2004 of 27 October 2004). The test for changes in organoleptic characteristics was not part of the investigation described in this report. A general recommendation is to demonstrate the absence of the deterioration in the real-life food application using industrial filling conditions.

Supporting documents with all details of the analytical experiments will be filed for a period of six years and can be accessed by enforcement authorities upon agreement of the client.

Approved by:

A handwritten signature in black ink, appearing to read 'T. Baque', written in a cursive style.

Dr. Thomas Baque