

## Polyolefins

# Borcycle™ C products

### APPLICABLE FOOD CONTACT LEGISLATION & COMPLIANCE OF BOREALIS POLYOLEFIN PRODUCTS BASED ON CHEMICALLY RECYCLED FEEDSTOCK (BORCYCLE™ C)

Based on the rapidly developing market for recycled plastics, and the need to use them in food-contact applications, Borealis offers plastics based on monomers derived from chemically recycled feedstock under the brand of Borcycle™ C.

In EU, all food contact materials must comply with Regulation (EC) No 1935/2004 (framework regulation), which sets out general principles of safety and inertness. In addition, certain materials are covered by specific EU measures including

- plastic materials: Commission Regulation (EU) No 10/2011
- recycled plastic materials: Commission Regulation (EU) No 2022/1616

where latter exists specifically to control the recycling processes.

**Article 2(3)** of the Regulation (EU) No 2022/1616 states that it shall not apply to the use of waste to manufacture substances included in the Union list of authorised substances i.e. Annex I of the Regulation (EU) No 10/2011. The Union list comprises authorized monomers, including ethylene and propylene. In other words, while chemical recycling technologies are not entirely excluded from the scope of Regulation (EU) 2022/1616, such chemical recycling processes that involve depolymerisation down to monomers fall outside its scope.

Borcycle C products are based on monomers from chemically recycled feedstock. In a thermal pyrolysis process plastic waste is depolymerised into a fuel-like mixture. The resulting pyrolysis oil is used as a feedstock, similarly to crude oil, for traditional monomer production.

**We therefore confirm that chemical recycling process used here does not fall under the scope of the Regulation (EU) No 2022/1616 and that Borcycle C products are subject to Regulation (EU) No 10/2011.**

Furthermore, **Article 8(1)** of the Regulation (EU) 10/2011 states that substances used in the manufacture of plastic materials and articles that may be present in the final plastic material, *including those manufactured from waste*, shall be of a high degree of purity and shall be of a technical quality suitable for the intended and foreseeable use of the materials or articles. Substance is considered as having a high degree of purity where all of its constituents correspond to its identity, and it otherwise contains only a minor amount of non-intentionally added substances that are individually assessed according to the principles outlined in newly introduced **Article 3a**.

Borealis applies strict purity requirements and all monomers, irrespective of their origin, must comply with the established specifications. Consequently, **we confirm that monomers used for Borcycle C products meet the high degree of purity requirements** similarly as monomers derived from conventional crude oil process.

**Prepared by** Borealis, Group Product Stewardship

Borcycle C is a trademark of the Borealis group.

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### Disclaimer

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication.

The legislation cited above applies to the final packaging, which is intended to come or is brought into contact with foodstuff. This statement however is restricted to the Borealis product as it leaves production. It is the customers responsibility to verify compliance with applicable legislation of the final packaging under actual and foreseeable conditions of use.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose. No liability can be accepted in respect of the use of Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.