



# PETCORE ANNUAL CONFERENCE 2021

Session 1: "2019 pet market, collection & recycling rates" Working group: opaque and functional bottles

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### **O&F WG Members**













## **WG OPAQUE & FUNCTIONAL BOTTLES**







### **WORKING GROUPS**

Aiming at increasing the volumes of PET recycling and promoting new solutions

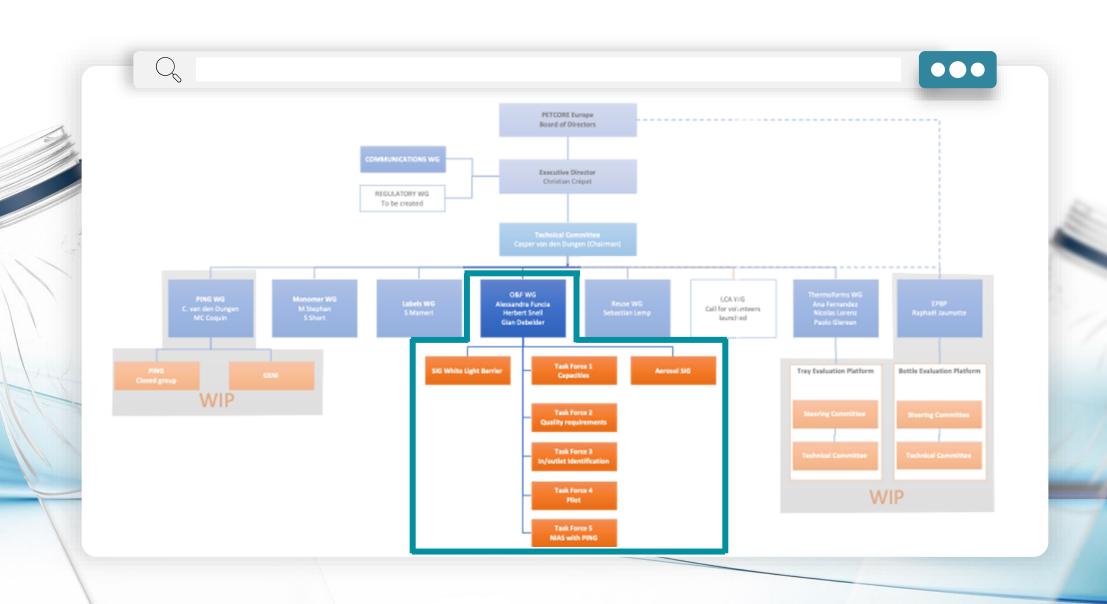


### **O&F**

Mission: Identify, foster, communicate and promote outlets/end applications for non clear (opaques), sleeved and functional PET bottles

**Vision:** All opaque and functional PET bottles (and trays) are recyclable, collected, sorted and recycled

# O&FWG STRUCTURE AND GOVERNANCE



SUMANO



















## TiO<sub>2</sub> CLASSIFICATION



**Scope:** TiO<sub>2</sub> in a powder form containing **1% or more of particles** with aerodynamic diameter  $\leq$  10 µm

Member guidance doc distributed early Dec2020

**Up to date:** most of the leading international TiO<sub>2</sub> supplier have not identified any product grades suitable for PET applications, **that trigger classification and therefore will not apply classification labels** to its products under the current law

For continuously updated information please visit: https://tdma.info

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Petcore Europe Member Guidance Substance Titanium dioxide

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Name Titanium dioxide | Synonyms: TO<sub>2</sub>, Titania, Titanium (IV) oxide, Titanium white, Pigment White 6 (PW6), or Cl 77891 | EU Info card Information on TiO<sub>2</sub>: https://echa.europa.eu/ni/substance-information/-substanceinfo/100.033.327

The European Commission has classified certain forms of titanium dioxide (TiO<sub>2</sub>) as a category 2 carcinogen by inhalation according to Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging (CLP) of substances and mixtures. This means that certain forms of TiO<sub>2</sub> and mixtures containing these forms of TiO<sub>2</sub> may require special labelling. These requirements will apply from 1st October 2021.

The new entry for TiO<sub>2</sub> in Annex VI of the CLP is interesting as the classification is limited to inhalation and is accompanied by several specific notes intended to further limit its scope. Additionally, there is terminology which is new to CLP. The terminology is ambiguous and could be subject to multiple interpretations.

This could be seen as an opportunity to showcase PET as a major contributor to the Circular Economy by demonstrating how the whole PET value chain from Producer to Recycler can come together to manage this regulatory change safely and efficiently.

The objective of this guidance is to provide Petcore Europe Members with help in the interpretation of the scope and application of the TIO<sub>2</sub> harmonised classification. This help is targeted at downstream users of TIO<sub>2</sub> including recyclers, to support the application of this classification. There are uncertainties inherent in this classification and alternative interpretations may exist, however it is recommended that Petcore Europe members should try to implement the following interpretation, at least until clarification in late 2021.

### Scope - European Union markets

The CLP is about the Classification, Labelling and Packaging of substances and mixtures. Within the CLP three definitions are applicable:

- A Substance means a chemical element and its compounds in the natural state or obtained by any
  manufacturing process, including any additive necessary to preserve its stability and any impurity
  deriving from the process used, but excluding any solvent which may be separated without
  affecting the stability of the substance or changing its composition;
- A Mixture means a mixture or solution composed of two or more substances;
- An Article means an object which during production is given a special shape, surface or design
  which determines its function to a greater degree than does its chemical composition

Handling of TiO<sub>2</sub> powder – i.e. TiO<sub>2</sub> in powder form used to produce Masterbatches and compounds The vast majority of TiO<sub>2</sub> placed on the market is very likely to fit the description of TiO<sub>2</sub> in powder form i.e. composed of particles with an aerodynamic diameter of less than 10µm and is therefore expected to be classified as a Category 2 Carcinogen by Inhalation (only). As such, users of the powder form must implement the relevant worker protection measures if not yet already long available and in place, as standard procedures of safety protection at workplace when dealing with powder mixtures.

Solid mixtures – polymer granules, masterbatches concentrated mixtures containing  $\text{TiO}_2$  and compounds

A powder is considered a solid in the CLP, as it does not meet the definitions of liquid or gas. The CLP also states that solids can include granules, flakes, pellets and powders. <u>A solid mixture is only classified when</u> it is in powder form unless the mixture contains other hazardous substances. Polymer granules



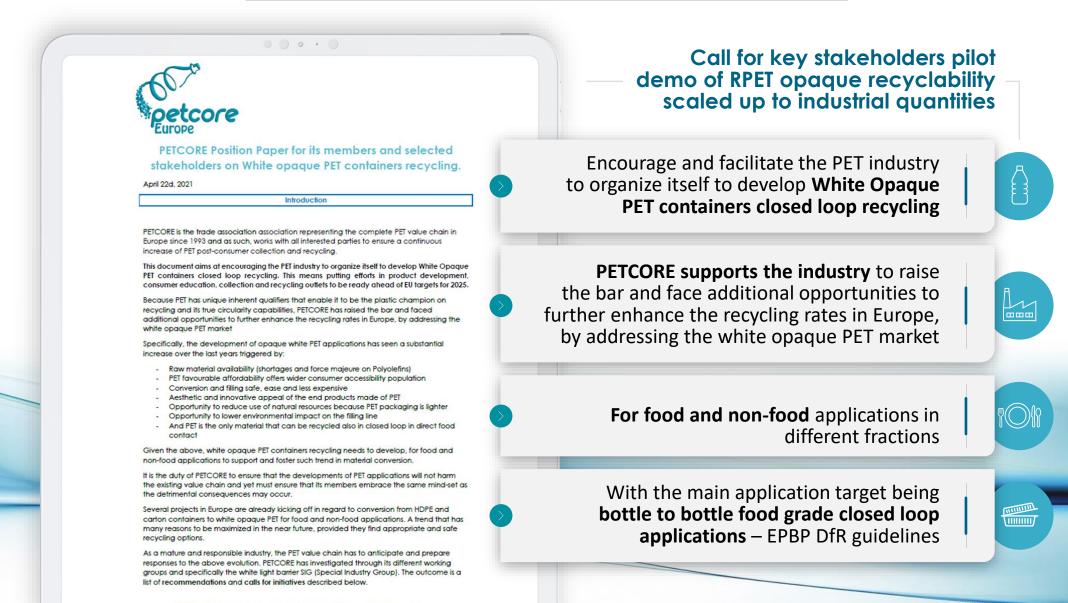






### WG O&F: POSITION PAPER







## CALL FOR PARTICIPANTS OF THE PILOT









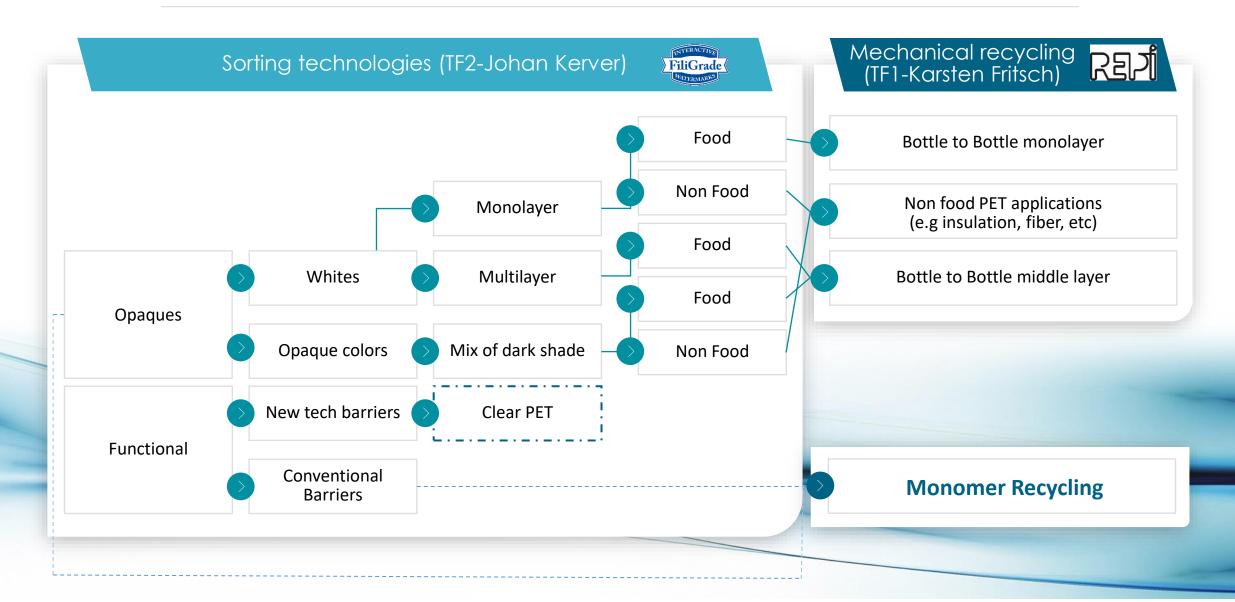






Collection of technical properties requirements for RPETo and MS recycling capabilities **OUTLETS RPETO QUALITY REQUIREMENTS** 







# PETCORE EUROPE

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