

CONSORTIA

CosPaTox Consortium - Safe use of PCR in cosmetics packaging

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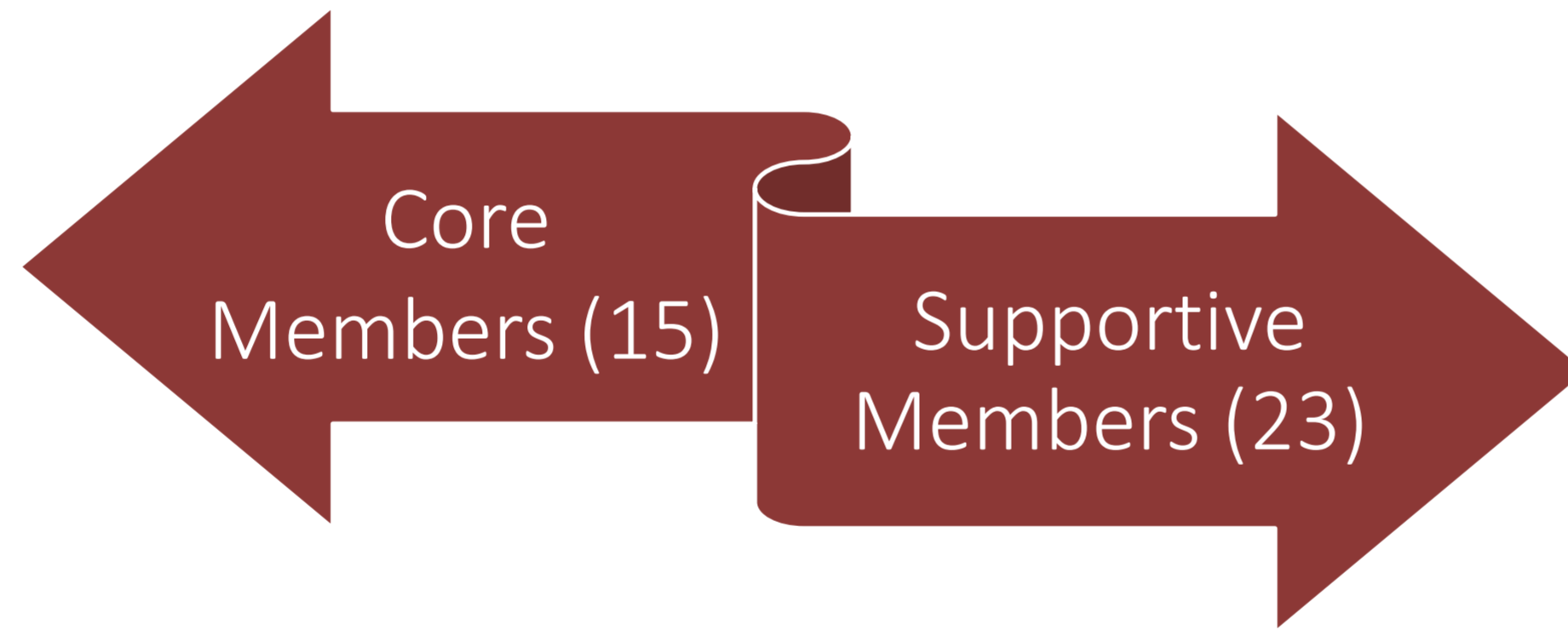
The CosPaTox Consortium

→ Define toxicological safe values for cosmetics packaging for rinse-off, leave-on, household and cleaning detergent packaging made of rHDPE and rPP (rLDPE)

- CosPaTox emerged from Forum Rezyklat
- Operational as of March 2021, project duration: 24 months
- 38 core and supportive members
- major EU brand owners, recyclers, plastics manufacturers, plastics processors representing the whole value chain
- Scientific support from FH Vienna, Fraunhofer IVV, analytic lab Fabes (Eurofins)
- Scope: Europe

The CosPaTox Members

Status June 2022



Core Members (15): ALPLA, Henkel, amcor, L'ORÉAL, Beiersdorf, lyondellbasell, BOREALIS (Keep Discovering), pre zero, COLGATE-PALMOLIVE, P&G, VEOLIA, interseroh (zero waste solutions), WERNER & MERTZ, kao, Johnson & Johnson.

Supportive Members (23): APK, Aptar, BANDERA (EXTRUSION INTELLIGENCE), AVIENT, COSNOVA BEAUTY, dalli group, delo, dm, eurofins, KMGROUP, WELEDA (Seit 1921), LINHARDT (Packaging for your life.), MANN & SCHRÖDER COSMETICS, mibelle GROUP, morssinkhof-rymoplast, REMONDIS (IM AUFTRAG DER ZUKUNFT), ROSSMANN, PLASTICS RECYCLERS EUROPE, SAUER (Polymertechnik), SIEGWERK, NEOPAC THE TUBE, FABER-CASTELL COSMETICS, BRAUNS, HEITMANN.

COSPATOX – project focus and targets

CosPaTox – FOCUS of activities

- **Define toxicological safety guidelines for PCR materials on European level** used in cosmetics packaging, focus on polyolefins (HDPE and PP)
 - Ensure safe use of high quality recyclate for non-food packaging applications based on scientific assessments
- **Determine toxicologically safe limit values** for identified key substances
 - Verify key substances and limits by simulation calculations and real testing
 - Derive general risk-based safety evaluations
- **Develop test and measurement methods for recyclates** for on-site use by recyclers
 - Define basic quality management guidelines for recyclers – a prerequisite to increase the quota of recyclate - as each lot is unique.

Not in the focus

Processing

- **Which processing technology can deliver the required safe recyclate quality?**
 - Assess the current market, process set-ups, quality management and control at recyclers. Suitable technology to achieve safety is the responsibility of the recyclers!

Sorting & Collection

- **Which INPUT stream is needed to ensure safe recyclate quality?**
 - Understand the structure, quality and control of EU collection schemes.



WP1 - Project Management

WP2 - State of the art assess. of collect., sort., recycl. structures

WP3 - TTC application and Worst-case calculations

WP4 - Migration testing, Chemical analysis and bioassays

WP5 - Development of a test strategy and industry guideline

WP6 - Dissemination and communication

CosPaTox – Project Status June 2022

WP	WP description	Status June 2022
WP1	Project Management	ongoing
WP2	State of the art assess. of collect., sort., recycl. Structures	finalized
WP3.1	TTC application	ongoing
WP3.2	Worst-case calculations	draft report issued
WP4	Migration testing, Chemical analysis and bioassays	Pilot study ongoing; test program set up, bootle production organized
WP5	Development of a test strategy and industry guideline	Initiated, kick-off meeting held
WP6	Dissemination and communication	Initiated, linked to WP5

CosPaTox – Next steps and timeline

- WP3: define list of substances of concern and TTC depending on application
- WP4: finalize the pilot study, define testing methods, start of sample testing program, production of bottles for testing, conduct of Ames MPF™ test (ca. Q4/2022)
- WP5 and WP6: draft guideline and communication, aim for professional support (ca. Q2/Q3 2023)

Initiatives/projects/organizations with similar/related focus

- PrintCyc
- CosmetoPack
- SafeCycle
- PCEP
- HolyGrail 2.0

→ Align with organizations/projects for the common goal to promote the safe use of polyolefin recyclates

Many thanks for your attention

www.cospatox.com

