Business plan for a DIN SPEC project according to the PAS procedure on **"Recycled plastic materials for the packaging of cosmetic and home care products – Quality levels and analytical methods"**

Status:
for developing DIN SPEC after adoption on 05.09.2024

Requests to participate in the project and/or comments on the business plan are to be **submitted by 22.08.2024**[1]**.** The request to participate as well as comments are submitted via **https://www.din-events.de/**[2] with the log-in code ***ds91521***.

Recipients of this business plan are requested to name **all patent rights** known to them to be relevant to the project and to make available all supporting documents.

Berlin, 17.09.2024 (Version 2)

[1] Applications for participating in the project and comments on the business plan that are not received by the deadline do not need to be taken into consideration. Once constituted, the project workshop will decide whether or not to consider the comments received in good time.

[2] If technical issues occur when submitting the registration or any comments via the provided link, please send them to Yihan.Chen@din.de.

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1. Status/version of the business plan

- **For public commenting (Version 1)**

  This business plan is intended to inform the public of a new DIN SPEC project. Any interested party can take part in this project and/or comment on this business plan. Please send any requests to participate or comments via https://www.din-events.de/[3] .

  Once this business plan is published, the Chairman of DIN's Executive Board decides whether or not the project is to be carried out.

  If the project is accepted, all those who have applied for participation or have commented on the business plan by the deadline will be invited to the kick-off meeting of the project consortium.

- **For developing the DIN SPEC after adoption on 05.09.2024**

  Changes to the previous version 1:
  - Title page, Section 1: status changed to "For developing DIN SPEC after adoption on 05.09.2024", as well as an update of the consecutive revision number (version 1 → version 2)
  - Section 2: Table of participating organizations added
  - Section 7: Information on consortium leader added

2. Initiator and other consortium members

- Initiator:

Person/Organization	Short description
Doris Peters, Consortia Management GmbH	Secretariat of the industry Consortium CosPaTox, which stands for Cosmetics, Packaging and Toxicology.

- Other potential participants:

This DIN SPEC will be developed in a consortium (temporary body) that is open to any interested party. The participation of other experts would be helpful and is desired. It is recommended that

- Plastic packaging converters and/or manufacturers
- Product manufacturers

[3] If technical issues occure when submitting the registration or any comments via the provided link, please send them to Yihan.Chen@din.de.

– Research establishments for packaging or recycling
– Testing institutes for packaging and materials
– Recyclers of plastic waste
– etc.

take part in the development of this DIN SPEC.

- Organizations[2] that have registered for participation:

Person	Organization
Doris Peters	Consortia Management GmbH
Dr. Heiner Gers-Barlag	Beiersdorf AG
Claudia Thölke	Delo: Dettmer Verpackungen GmbH & Co. KG
Dr. Dennis Bankmann	Dennis Bankmann – Emerging Motif
Kenneth Laverdu, PhD	Estée Lauder Companies, Inc.
Celine Abad	Kenvue Inc.
Dr. Taryn Kirsch	Procter & Gamble Service GmbH
Jennifer L.L. Morgan, PhD	Procter & Gamble Company
Yihan Chen	DIN e. V.

- Organisations that have adopted this business plan (consortium members):

Person	Organization
Michal Stacina	Alltub Deutschland GmbH
Dr. Heiner Gers-Barlag	Beiersdorf AG
Mark Roberts	Berry Global
Michal Michalak	Berry Global
Michal Kaminski	Berry Global
Christian Schiller	cirplus GmbH
Doris Peters	Consortia Management GmbH
Sepideh Shaterian	Consortia Management GmbH
Eva-Maria Wienhold	Constantia Pirk GmbH & Co. KG
Dr. Inna Dewald	Constantia Pirk GmbH & Co. KG
Patrycja Floras-Rz	Coveris
Claudia Thölke	delo: Dettmer Verpackungen GmbH & Co.KG
Dr. Dennis Bankmann	Dennis Bankmann - Emerging Motif
Dr. Ken Laverdure	Estee Lauder
Dr. Hans-Josef Endres	IKK - Institut für Kunststoff- und Kreislauftechnik

Person	Organization
Dr. Madina Shamsuyeva	IKK - Institut für Kunststoff- und Kreislauftechnik
Celine Abad	Kenvue
Martin Doedt	KIMW Prüf- und Analyse GmbH
August Wanninger	LINHARDT
Jennifer Morgan	P&G
Dr. Taryn Kirsch	P&G
Dr. Karlheinz Blay	SGS Institut Fresenius GmbH
Rieke Göttsche	SGS Institut Fresenius GmbH
Kathleen Burkhardt-Medicke	Umweltbundesamt

3. Objectives of the project

3.1. General

The consumer goods industry, including producers of cosmetic products, detergents, and home care products, is expected to substantially increase its demand for recycled plastic for packaging applications. However, a major obstacle to meeting this demand, and to a more rapid introduction of recycled plastics in this type of packaging, is the scarcity of quality recyclates.

There is more than enough suitable post-consumer plastic waste available for recycling, and this waste is already collected separately and recycled in many EU countries. However, the recycled plastics made from these materials generally do not meet the legal requirements for food contact or have not received the relevant authorisation. Therefore, the established selection approach for plastic materials for cosmetic product packaging, based on food contact approvals, cannot be applied to these recycled materials.

While the use of recycled plastics in cosmetic product, detergent, and home care product packaging materials is not legally restricted to food contact approved materials, important requirements exist for the safety of such packaging applications. Therefore, the entire value chain stands to benefit from clear guidance regarding the suitability of not food contact approved recycled plastics for the packaging of cosmetic and home care products.

This document describes an approach that enables a wider use of recyclates by defining three quality levels for recycled plastics (Quality Level A, Quality Level B And Quality Level C). Each level represents the potential for safe use in: the packaging of leave-on cosmetic products (QL-A), rinse-off cosmetic products and hand wash detergents (QL-B), or automatic wash detergents and other home care products (QL-C).

The described approach is technology neutral and does not consider or require any specific collection, sorting, or recycling technology. The focus is solely on the quality of the recycled materials themselves.

It is expected that the entire cosmetic products, household detergent, and home care products industry, as well as the suppliers of recycled plastics, will benefit from this guidance. This includes companies that have so far refrained from using recycled plastics in their packaging due to a lack of clear quality standards.

3.2. Planned scope

This document defines requirements for recycled plastic materials intended for use in the packaging of cosmetic and home care products. It defines three quality levels that aid in the classification and trade of recycled plastic materials for this purpose. The document also specifies the analytical methods to be applied to establish the quality level of a given recycled material.

3.3. Related activities

The subject of the planned DIN SPEC is not at present the subject of a standard. However, there are committees, standards and/or other technical rules that deal with related subjects and thus need to be taken into account - and involved or incorporated, where necessary - in this project:

- DIN Standards Committee Plastics
- DIN Standards Committee Food and Agricultural Products
- DIN Standards Committee Packaging
- Respective Committees at CEN and ISO
- Standards series EN 18064, *Plastics — Quality recommendations and basis for specifications for application of plastic recyclates in products*
- DIN SPEC 91446/prEN 18065
- EN 1534x

4. Work programme

The aim of the project is to develop a DIN SPEC according to the PAS procedure (see www.din.de/go/din-spec-en). The DIN SPEC shall be consistent with the body of German standards and shall not be in conflict with any DIN Standard.

The kick-off meeting took place on 05.09.2024 at Vogelsanger Weg 91, 40470 Duesseldorf, Germany (with an option for connecting via MS Teams). The project duration will be about 4 months.

At this kick-off meeting, the consortium for developing the DIN SPEC was constituted, further organizational issues were decided on and clarified, and, where possible, work on the subject matter began.

A draft for public commenting will not be published.

A total of 2 project meetings (kick-off meeting and work meetings) and 1 web conferences will be held, during which the content of the DIN SPEC will be presented, discussed and approved. The content of the DIN SPEC can be drawn up by individual consortium members or in working groups.

Dates of further meetings and/or web conferences are to be agreed on within the consortium in consultation with DIN.

The DIN SPEC will be drawn up in English (language of meetings, minutes, etc.). The DIN SPEC will be written in English.

NOTE The calculation covers only one language version. Please keep in mind the fact that other language versions involve additional expenses; for this reason, they shall be agreed on separately. If another language version is desired, Beuth/DIN can provide a translation. Requests for translations are to be submitted after the DIN SPEC manuscript has been approved for publication.

5. Resource planning

Each consortium member shall bear the expenses he/she incurs as a result of participation in the project.

If the DIN Executive Board approves the project, the initiator of the project will then conclude a contract with DIN.

The performance of this project as set out in the programme of work will result in DIN incurring costs to a total of 27.673 euros, excluding VAT. Additional services give rise to additional costs.

Sharing the burden of these costs is a prerequisite for membership in the consortium.

By adopting this business plan, consortium members declare their willingness to bear their share of the project costs, which is based on the number of consortium members.

Each consortium member is to declare this willingness to take on his/her share of costs by individual agreement with the initiator.

If the consortium is expanded later, the additional consortium members shall pay the initiator the same fee to cover costs as the original consortium members.

The initiator is obliged to use the financial resources that have been made available to him by the consortium members solely for purposes furthering the project, and to return any surplus amount in equal parts to all consortium members without delay.

6. Rules of cooperation in the DIN SPEC consortium

This project is governed by the PAS procedural rules. All interested parties and consortium members are to inform themselves of these procedures by going to www.din.de/go/din-spec-en.

The consortium will be constituted during the course of the kick-off meeting. The kick-off meeting will not take place until the business plan has been published and approved by DIN's Management Board. The consortium shall comprise at least three members from different organizations[4]. It is not necessary that these members come from different areas and represent different stakeholders. By approving this business plan, the interested parties declare their willingness to participate in the consortium and will be formally named as consortium members, with the associated rights and duties. Participants at the kick-off meeting who do not approve the business plan are not given the status of a consortium member and are thus excluded from further decisions made during the kick-off meeting and from any other decisions regarding the project.

If an organization (e.g. an association) sends someone who is not an employee to the consortium, this person shall be authorized by the organization, who shall provide proof of this to DIN.

Each consortium member is entitled to vote and has one vote. If an organization sends several experts to the consortium, that organization has only one vote, regardless of how many consortium participants it sends. Transferring voting rights to other consortium members is not permitted. During voting procedures, decisions are passed by simple majority; abstentions never count.

As a rule, the consortium is closed once it is constituted. The current consortium members shall decide whether any additional members will be accepted or not.

During the kick-off meeting, the consortium members shall elect a consortium leader, who is responsible for content management and any decision-making and voting procedures. The leader is supported by the responsible DIN Project Manager, whereby DIN will always remain neutral regarding the content of the DIN SPEC. Furthermore, the DIN Project Manager shall ensure that DIN's rules of procedure, rules of presentation, and the principles governing the publication of DIN SPEC have been observed. Should a consortium leader no longer be able to carry out his/her duties, the DIN Project Manager shall initiate the election of a new leader.

[4] Organizations are legal entities and natural persons, insofar as they participate in business transactions on a commercial or freelance basis. If several legal entities are part of a group or a corporate structure within the meaning of Section 15 of the German Stock Corporation Act (§ 15 Aktiengesetz) or Section 271 (2) of the German Commercial Code (§ 271 Absatz 2 Handelsgesetzbuch), they are deemed to be one organization.

The DIN Project Manager is responsible for organizing and leading the kick-off meeting, in consultation with the initiator. Further project meetings and/or web conferences shall be organized by the DIN Project Manager in consultation with the consortium leader.

If consortium members cannot be present when the DIN SPEC or its draft is approved, an alternative means of including them in the voting procedure shall be used (e.g. in writing, electronically).

All consortium members who voted for the publication of the DIN SPEC or its draft will be named as authors in the Foreword, including the organizations which they represent. All consortium members who voted against the publication of the DIN SPEC or its draft, or who have abstained, will not be named in the Foreword.

Any expansion of the consortium at a later date is decided on by the members making up the consortium at that time. It is particularly important to consider these aspects:

a) expansion would be conducive to shortening the duration of the project or to avoiding or averting an impending delay in the planned duration of the project;
b) the expansion would not result in the project taking longer to complete;
c) the new consortium member would not address any new or complementary issues beyond the scope defined and approved in the business plan;
d) the new consortium member would bring complementary expertise into the consortium in order to incorporate the latest scientific findings and state-of-the-art knowledge;
e) the new consortium member would actively participate in the drafting of the manuscript by submitting concrete, not abstract, proposals and contributions;
f) the new consortium member would ensure wider application of the DIN SPEC.

To allow the legal reproduction and distribution of results for the purposes of project work, the consortium members grant DIN rights of use on the basis of the copyright that will accrue to them for the results of their work on the DIN SPEC. The transfer of these utilization rights does not prevent the consortium members from using and further developing the knowledge, experience and findings they bring to the project.

Consortium members are requested to inform DIN of all patent rights known to them to be relevant to this DIN SPEC project.

Subsequent changes to the scope (Section 3.2) or to the resource planning (Section 5) require, in addition to a two-thirds majority of all votes cast, the approval of DIN.

7. Contacts

- Consortium leader:
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Annex: Project schedule (preliminary)

DIN SPEC project	2024																				2025					
	Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		Jan		Feb		Mar	
Initiation																										
1. Request and review																										
2. Business plan drawn up																										
3. Publication of business plan																										
Development phase																										
4. Kick-off meeting/consortium constituted																										
5. DIN SPEC drawn up																										
6. DIN SPEC approved by consortium																										
Publication																										
7. Review and release by DIN																										
8. Publication of DIN SPEC																										
Milestones													**K**			**W**		**M / A**								

K Kick-off
M Project meeting
W Web conference
A Adoption of DIN SPEC