



ECHA

Information gathering on the relevance of the EUPLs under Article 11 of the Drinking Water Directive to potential future applicants of the review programme of 2025-2040

Work Package 5 - Final report

Report for

ECHA
European Chemicals Agency
P.O. Box 400, FI-00121 Helsinki, Finland

Main contributors

Maria Paola Calasso
Ashleigh Dawson
Natalie Sims

Issued by

Approved by

WSP Environment & Infrastructure Solutions GmbH

Weserstrasse 4
60329 Frankfurt
Germany

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Executive summary

The Drinking Water Directive (DWD) concerns the quality of water intended for human consumption. Its overarching objective is the protection of human health from the adverse effects of contamination in drinking water. Council Directive 98/83/EC has been repealed by Directive (EU) 2020/2184 of the European parliament and of the council of 16 December 2020 on the quality of water intended for human consumption (recast). Under Article 11 of the recast DWD, European Positive Lists¹ (EUPLs) of starting substances, compositions or constituents of organic, metallic, cementitious, and inorganic materials that come in to contact with drinking water are to be created. At the time during which this study was undertaken, draft EUPLs for the four material types had been created (based on pre-existing research and lists). Economic operators are required to submit applications within the timeframe of a specified expiry date for an entry to be retained on the EUPLs. Applications may also be made for additional entries and requests may be made for the removal of entries.

The purpose of this study was to undertake a stakeholder engagement exercise to obtain feedback on the draft EUPLs and understand the potential scope and interest amongst stakeholders regarding the submission of applications (i.e., how many applications might be received). A further purpose was to understand stakeholder interest in joining ECHA user groups to support the development of the DWD EUPLs application process.

The study was undertaken by carrying out an initial scoping task to identify relevant stakeholders. Stakeholders considered relevant to the study were European organisations that manufacture chemicals, materials and products that will come into contact with drinking water and trade associations that represent them. For example, companies that manufacture fine chemicals or that are used in the DWD point of application, such as in taps or pipes were relevant. Using this targeted approach to stakeholder identification, a long list of stakeholders was created.

176 stakeholders were contacted by email or online contact form to introduce the study and ask for their interest in participating. Interested stakeholders were sent the draft EUPLs and an accompanying questionnaire for each material type. The questionnaire was designed to capture their feedback on which entries they (or the economic operators they represent) would intend to submit an application for. The questionnaire enabled insight to be gained on the category(ies) the application might cover, the technical function of the entry, whether the application will be for nanoforms of the entry (in the organics and cementitious EUPLs) and the supply chain role of the users of the entries. The questionnaire also allowed stakeholders to list any entries they considered to be missing from the draft EUPLs and offered an opportunity to provide any other further feedback or corrections.

Completed questionnaires were received from 26 stakeholders. This is a low response rate relative to the 176 initial contacts that had been made. The low response is likely related to the consultation being undertaken during the summer period. Stakeholders that were trade associations representing numerous members typically compiled the responses of their members into a single file. For such cases, the number of individual members that provided the response is not known. Therefore, the responses received comprises the views of more than 26 individual organisations. In addition to the questionnaire response, some stakeholders provided further written feedback sharing their views on the DWD EUPLs process. Some stakeholders expressed their interest in taking part in a remote interview to discuss the subject further. Interviews were held with three stakeholders.

The questionnaires yielded both quantitative and qualitative data. Completed questionnaires were compiled into a single master file to allow an analysis of the data to be performed. Regarding the

¹ A positive list comprises substances, constituents or compositions that been considered safe following assessment and permitted for use in materials that come into contact with drinking water.

interest in submission of applications for an entry to be retained on the list, one or more stakeholders expressed their interest in 396 organic entries, 43 metallic entries, 238 cementitious entries and 11 inorganic EUPL entries.

Stakeholders identified additional entries that they considered to be missing from the draft EUPLs. A total of 349 additional entries were identified. This comprised 267 in the organic material type, 17 in the metallic material type, 61 in the cementitious material type and 1 in the inorganic material type.² Some stakeholders indicated that they were not yet in a position to confirm whether they intend to submit an application for an entry to be retained on the EUPLs. Therefore, the results of this study are considered to be an initial indication of the intentions of stakeholders regarding their interest in submitting applications for the EUPL entries.

² The total number of additional entries identified by stakeholders is 485 if ion exchange resins (+97), inorganic cementitious constituents (+39) and out of scope inorganic compositions (+3) are included in the count.

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Appendix A Entries identified for applications
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List of abbreviations

The common abbreviations used in the report include the following:

Abbreviation	Full terminology
DG ENV	Directorate-General for Environment
DWD	Drinking Water Directive
ECHA	European Chemicals Agency
EU	European Union
EUPL	European Positive List
FCM	Food contact materials
GDPR	General Data Protection Regulation
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
SIEF	Substance Information Exchange Fora
UBA	German Federal Environmental Agency

1. Introduction

This report

This document presents the final report for the project on ‘*Information gathering on the relevance of the EUPLs under Article 11 of the Drinking Water Directive to potential future applicants of the review programme of 2025-2040*’, provided by WSP for the European Chemicals Agency (ECHA).

This report presents the results of the consultation activities carried out by the project team on the relevance of the draft first European Positive Lists (EUPLs) and the analysis of data derived from the consultation.

Structure of the report

The report is structured as follows:

- Section 1 (this section) introduces the project and provides background context;
- Section 2 sets out the approach taken;
- Section 3 provides an overview of the consultation activities carried out in the course of the project;
- Section 4 outlines the results of the analysis of the consultation activities; and
- Section 5 concludes the report.

Background, aims and scope of the study

Under Article 11 of the recast Drinking Water Directive³ (DWD, 2020/2184), EUPLs are to be created for starting substances, compositions or constituents which are authorised for use in the manufacture of materials or products in contact with water intended for human consumption. EUPLs are to be created for the following four material types: organic, cementitious, metallic, and enamels, ceramic and other inorganic materials. Economic operators are required to submit applications before a specified expiry date during a 15-year review programme for an entry to be retained on the EUPLs.

The first draft lists have been produced by ECHA based on the European Union (EU) list of the plastic food contact materials Regulation (FCM, 10/2011)⁴ and national lists which Member States notified to ECHA in 2021. The European Commission (DG Environment) has then reviewed and commented on the drafts prepared by ECHA. This has been followed by the Expert Group of Member States for DWD who have discussed the stable drafts. After several rounds of discussions with Member States, ECHA has finalised the drafts in May 2023 and handed them over to DG ENV. Additional comments from the Expert Group and the Commission were addressed in the following period. The draft EUPLs were published by the European Commission for public consultation in mid-October 2023.

The number of entries in the draft EUPLs for the four material types as of 2023 are shown in Table 1.1.

³ OJ L 435, 23.12.2020, p. 1–62

⁴ OJ L 12, 15.1.2011, p. 1–89

Table 1.1 - Number of entries in the draft EUPLs for drinking water contact materials

Material type	Number of EUPL entries
Organics	1,645
Metallics	50
Cementitious	335
Inorganics	14
Total	2,044

The 1st EUPLs will be reviewed in the period 2024 - 2039. ECHA has proposed to DG ENV to have four expiry dates and assigned each entry to one of the dates according to their hazard profile, knowledge on hazard, knowledge of substance identity, and availability of a risk assessment.

As for the next steps on the adoption of the EUPLs, DG ENV will finalise the draft legal act for the adoption of the 1st EUPLs based on comments from the public consultation in Q4 2023 and will adopt them into law in Q1 2024.

In this study, a stakeholder engagement exercise was undertaken to gain feedback in relation to the following aims:

- Understand stakeholder interest in submitting applications to keep entries on the EUPLs. This was to provide ECHA with information regarding the numbers of review applications they may receive in relation to the EUPLs.
- Understand whether certain entries gather interest from multiple stakeholders.
- Identify whether certain entries are not relevant to drinking water contact materials.
- Identify additional entries that may be missing from the draft EUPLs and which may be applied for inclusion into the EUPLs.
- Obtain information relating to the material categories, technical function and product categories associated with the entries.
- Understand the roles of the economic operators interested in submitting applications for the continued use of the entries in the EUPLs.
- Identify general comments, suggestions or corrections stakeholders may have in relation to the EUPLs.
- Understand whether stakeholders had interest in joining ECHA user groups relevant to the new DWD approvals system.

Relevant stakeholders to this study were identified through a scoping exercise. Key types of stakeholders engaged were those involved in the manufacture or supply of chemicals and drinking water materials and products at the point of application. The engagement included both trade associations and companies.

2. Methodology

Approach taken

This section outlines the approach that the project team has implemented in order to fulfil the project objectives. The methodology has been split into five work packages preceded by the project inception.

Project inception

A project kick-off meeting was held on 05 April 2023 with the aim of setting out the requirements and the expectations for the work. The meeting was attended by key project team members of both WSP and ECHA. The kick-off meeting was used as an opportunity to set out the context, discuss and align on the project's objectives and the approach to be adopted to meet such objectives. Specifically, ECHA provided a description of the content and status of the first draft EUPLs, and detailed the nature of the information and input to be collected through the stakeholder consultation activities. This was followed by a discussion and selection of the options to collect the information from the stakeholders. Relevant types of stakeholders were then identified. Finally, the project team provided an overview of the deliverables and meetings to be held during the project and the associated timeline.

Following the kick-off meeting, WSP provided the minutes of the meeting to ECHA on 11 April 2023.

Work package 1: Preparation of information collection tools

This section describes the approach adopted for work package 1 on information collection. This task was to set the strategy to obtain direct, written feedback from stakeholders. This method was split into four main stages, which are outlined below.

Data collection template

The first step was to create a data collection template in the form of a Microsoft Excel workbook. The workbook contained the draft EUPLs of starting substances, compositions and constituents for organic, metallic, cementitious and inorganic materials and a series of questions to be answered on the entries of the EUPLs. It included detailed instructions on how to complete the questionnaire, as well as an overview of the status of the EUPLs and the objectives of the study. The workbook collected the respondent details and presented a separate sheet for each material group type, namely organics, metallics, cementitious, and inorganics. Each of this tab contained prefilled columns providing details on:

- EUPL number;
- Origin of the entry (e.g. plastic food contact materials (FCM) list or national notification);
- Type of entry (whether group or single);
- Where available, EC and CAS numbers; and
- Other category specific details, including substance name and technical function.

The remaining columns contained the questions to be asked to the stakeholders, each with different answer options (pre-defined answers to be selected or open text). Stakeholders were asked to provide a response only for those entries they were interested in and had the opportunity to provide any further information in a 'further comments' column. Specifically, stakeholders were asked the following:

- Whether an entry derived from the FCM list is used for organic materials in contact with drinking water.
- Whether they intended to submit an application for the continued use of the entry.
 - ▶ In case they intended to submit an application, which material category/ies (in case of the organics list) or which product groups (in the case of the metallics list) the application would cover.
 - ▶ In case they intended to submit an application, what is the assumed technical function of the starting substance or constituent, in the case of the organics and cementitious lists.
 - ▶ In case they intended to submit an application, to specify whether the application would be for a nanoform of the starting substance or constituent, in the case of the organics and cementitious lists.
- Whether they agreed with the classification of a specific entry as a group entry in the case of the organics and cementitious list.
 - ▶ In case they agreed on the group classification, to identify the specific, individual substances falling within the group for which applications will be submitted to ECHA.
- What was their role in the supply chain for each relevant entry (e.g. importer, manufacturer, downstream user, etc.).
- To identify any other relevant entry/ies currently missing from the EUPLs.
- Whether they were willing to participate in ECHA user groups, focused on IT tools and / or on the guidance documents, in order to support ECHA in the new DWD approvals system.

Stakeholder communication

The second step was to establish a communication strategy with stakeholders. Stakeholders were first sent an initial email, providing them with an overview of the study and of the consultation feedback required. They were asked to express their interest in participating in the study. This was followed by the submission of the questionnaire to the stakeholders who agreed to participate in the study and one or two reminders to complete the questionnaire.

An internal communication tracker was produced in order to keep track of the communication activity and to inform ECHA of the response progress. The tracker collected information on both the initial contact and the data collection phases. This included:

- Whether and by whom an initial contact was established with stakeholders;
- If and when stakeholders provided a response;
- In case of no response, if a follow up was sent;
- Whether the stakeholders agreed to participate;
- In case of a positive response, the contact details of the stakeholders;

- When participating stakeholders had been sent the questionnaire;
- Whether and when the stakeholders provided their feedback to the questionnaire; and
- In case of missing response, if a follow up was sent.

In addition to the written communication with stakeholders, a limited number of relevant stakeholders were interviewed. This helped to fill information gaps from the written feedback initially provided and to gain further insight on key topics and any queries expressed by the stakeholders.

Data consolidation

The third step consisted of setting a strategy to consolidate the data collected through the stakeholder engagement activities. An Excel workbook was prepared that compiled the individual responses from stakeholders for each material type. A spreadsheet for each material type was created to pull the relevant “filled in” information from each stakeholder into one compiled sheet.

Data analysis

The final step consisted of establishing a strategy to analyse the data collected.

The data generated from the information collection was mostly quantitative and thus analysed through a series of formulas, graphs, and tables depending on the desired outcome. For open-text answers, the following strategy was used:

- For questions where open text input was provided due to an ‘other’ response to the previous question, the open text answers specified a material/constituent category or technical function. These answers were short and specific, as the stakeholder specified a function or category. Such responses were thus extracted and manually checked, in order to highlight common and similar answers, standardise and analyse the open text responses. These standardised answers were analysed in the same way that the fixed answer options are.
- For open text questions asking to identify the specific, individual substances for which applications were going to be submitted to ECHA, the name, EC and CAS number were inputted into separate columns in the Excel, to form quantitative data on children substances (in the case of group entries) for which stakeholders are interested in applying for.
- Open text questions asking stakeholders to justify a response or add further comments were manually checked and analysed to draw out key points.

Work package 2: Identification of relevant stakeholders and proposal for the strategy for the consultation exercise

This section presents the approach adopted for work package 2 on presenting a detailed stakeholder consultation strategy. The methodologies to identify relevant stakeholders and to undertake the consultation are described.

Identification of relevant stakeholders

The stakeholder consultation strategy aimed to inform on the relevance of the entries on the draft EUPLs. This was achieved by engaging with economic operators and their representatives who may be interested in submitting applications to ECHA for the continued use of an entry on the draft EUPLs, for an additional entry not already on the list or for the removal of existing entries. At the

kick-off meeting, it was discussed that relevant stakeholders included companies that manufacture fine or bulk chemicals or materials that are used in contact materials and products at the point of application, for example for use in taps or pipes. Potential applicants across the different material groups included the following:

- For organic materials, stakeholders operating at different levels of the supply chain, such as manufacturers/importers of additives or of polymers containing the additives, manufacturers of plastic products made with the polymer that contains the additive.
- For cementitious materials, companies manufacturing admixtures or other constituents of cementitious mixtures (e.g., grinding aids, formwork release agents, curing compounds).
- For metallic materials, manufacturers and users of semi-finished products, and manufacturers of steel/iron products, titanium, and its alloys.

In light of this, the project team, with support from ECHA, compiled a long list of stakeholders to contact.

As a starting point, ECHA provided a list of stakeholders whom they have approached, asking for expression of their interest to be involved in the consultation process. In addition, WSP carried out a scoping exercise to identify stakeholder organisations, by looking at the technical function of entries and the main production sectors. More specifically, WSP have considered the members of the European Drinking Water alliance, which represents industries dealing with the supply of products or materials used in drinking water applications and connected to municipal drinking water supplies at EU level. Finally, a key word search of the main industry sectors and of different stakeholder categories helped address remaining gaps.

The long list of stakeholders was prepared in the form of a stakeholder consultation matrix in Excel format, which included:

- The organisation name;
- The organisation acronym (if relevant);
- A link to the organisation's website;
- The stakeholder category, including industry representatives, manufacturers, research groups, trade associations, and suppliers;
- The Member State(s) or countries the organisation represents or is active in;
- The industry sector in which the stakeholder is active in;
- The material types associated with the stakeholder, differentiating between organic, cementitious, metallic, and enamels, ceramic and other inorganic materials;
- A short text justifying the relevance of the organisation to the scope of the task;
- The contact person(s) and contact details;
- Whether the organisation was contacted and by whom; and
- Whether the organisation expressed interest in participating in the study.

Consultation methodology

The approach to contacting stakeholders was based on the stakeholder consultation step described under work package 1 and is described below. The communication tracker was regularly updated to

indicate whether a stakeholder was contacted, whether a response was received, whether the response was positive or negative, if a follow up was sent and the associated dates.

- I. The long list of stakeholders was finalised with approval from ECHA.
- II. An initial email was sent to the final list of stakeholders. This introductory email mentioned ECHA's DWD email address to ensure transparency with stakeholders and informed them about the scope of the project, asked stakeholders of their willingness to participate and provide the required feedback. Stakeholders had a specific timeframe to respond to the request.
- III. Reminders and follow-ups were sent in cases of no-response.
- IV. Following approval from ECHA and stakeholders' acceptance to participate, WSP provided participants with further details and described the approach for the information collection. This included the possibility to maintain the privacy and anonymity of the data provided, in conformity with the EU's General Data Protection Regulation (GDPR).
- V. Participants then received the Excel information collection workbook with the prefilled columns and the instructions to follow in order to complete the workbook. Stakeholders were provided with eight weeks to provide their input.
- VI. During this period the project team sent two reminders to stakeholders to ensure their participation.
- VII. Upon receipt of written responses, the information was checked through and stakeholders were contacted to clarify any areas of uncertainty in the response.
- VIII. Following a preliminary analysis, three interviews were planned with key stakeholders to supplement the written information. A series of interview questions were developed with the support from ECHA to capture further information related to the relevance of the substances and to address any gaps that emerged from the analysis. Meeting minutes were produced following the interviews to capture the information provided by stakeholders. Minutes have been shared with ECHA following agreement from the stakeholder to do so.
- IX. The responses were then compiled and analysed.

Work package 3: Information collection

Under work package 3 the information collection strategy described under work package 1 was utilised. The consultation methodology developed under work package 2 in order to collect relevant information from identified stakeholders was implemented.

During this stage the project team informed ECHA of the progress and outcome of the information collection exercise.

Work package 4: Generation and submission to ECHA of dataset of interested stakeholders

As part of work package 4, the project team finalised the stakeholder consultation matrix described under work package 2. Such matrix was provided to ECHA, respecting the preference of respondents with regard to the privacy and anonymity of their data, in conformity with the EU's GDPR.

Work package 5: Analysis of collected information and final reporting

Work package 5 was split into two separate steps, analysing the information collected under work package 3 and preparing this final report.

Analysis of information collected

The information collection exercise completed under work package 3 gauged the intent of economic operators and their representatives to submit applications to ECHA for the purpose of inclusion or removal of entries in the EUPLs within the 15-year review period.

The information collected was analysed with the final goal of identifying the starting substances, compositions or constituents that were going to potentially attract interest among applicants. This analysis helped in identifying the number of applications that ECHA may receive after 2025 and thereby assist ECHA in preparing for its work.

The information collected was processed through an Excel sheet listing the final questions asked to stakeholders. Each materials list was analysed separately and highlighted common and contrasting stakeholders' opinion within each list. A quantitative and qualitative analyses of the inputs collected were performed. An analysis was performed to understand the following:

- The number of entries for which stakeholders had expressed an interest in submitting an application for under the four material types.
- The roles of the stakeholders that expressed interest.
- Any entries where stakeholders expressed that they intended to submit an application for a nanoform.
- Which entries stakeholders expressed interest in and any entries that generated the interest of more than one stakeholder.
- Whether stakeholders agreed with certain entries being classified as group entries.
- Additional entries that stakeholders had identified as being missing from the draft EUPLs.

Following the analysis of the inputs, the project team derived conclusions on the implications of the potential number and type of applications for ECHA. Such conclusions will help clarify the relevance of the draft first EUPLs, as well as provide an understanding of the stakeholder landscape and their potential future contributions to the work of ECHA.

Preparation of final report

As part of this final step, the project team has prepared this final report, which includes the methodology used in this project, provides an overview of the consultation activities, analysis of the stakeholders' feedback, and provides a conclusion of this study.

3. Overview of consultation activities

Stakeholder responses to questionnaire

A total of 176 stakeholders were identified that were considered to be relevant to the scope of the study. This included approved stakeholder organisations initially suggested by ECHA and further stakeholders identified through the stakeholder scoping exercise. A request for participation in the study was made to these 176 stakeholders. Requests were either made via email or via online contact forms on the organisation's website. It was generally found that contact forms did not yield a good response rate.

A total of 35 stakeholders responded to the initial request to participate in the study, with 31 agreeing to participate. An additional eight stakeholders made contact with WSP after they had received the request to participate from their trade associations. The information collection tool containing the EURLs and the questions were sent to all stakeholders who had confirmed their interest in participating in the study. A total of 26 completed questionnaires were received back from stakeholders. A matrix of stakeholders that agreed to participate in the study has been sent to ECHA via email as part of work package 4.

Representatives from trade associations advised us that they circulated the questionnaire to their members. Different trade associations varied in the ways in which they approached the consultation. Some advised their members to contact WSP directly and some advised that they would consolidate information from their members and feed this back to WSP. Some trade association representatives consolidated the responses of their members into a single Excel file, some stakeholders asked their members to send their completed questionnaires directly to WSP and other trade associations sent individual completed Excel files to WSP.

Stakeholders were asked a follow up question on whether they gave their permission for their questionnaire response to be directly shared with ECHA (with the option for names and contact details to be removed, should this be preferable). 13 stakeholders agreed for their questionnaire responses to be shared, which have been provided to ECHA via email. Names and contact details have been removed from some questionnaires where this was the preference of the stakeholder.

Interviews with stakeholders

25 stakeholders were asked if they would like to participate in a call to provide further input to the study. This request was made to stakeholders that were categorised as trade associations. Three stakeholders expressed interest in participating in an interview and interviews were held with those three. The names of the organisations that participated in the interviews has been shared with ECHA via email.

Issues encountered

Some stakeholders expressed interest in the study but did not respond to subsequent communications. Some stakeholders agreed to participate in the study and were sent the questionnaire, but they did not send a completed questionnaire back to WSP. Reminders were sent but were not always responded to.

A key issue flagged by stakeholders was the timing of the consultation period (June-August 2023) during which many stakeholders were away from office. This issue also relates to the length of time

allowed for the consultation. One trade association representative provided feedback that they would need approximately six months to accurately complete the questionnaire.

Some trade associations highlighted that the question of whether the economic operator(s) they represent intend to submit an application to ECHA for the continued use of an entry was the most challenging to answer. They informed that for some of their members, it is too early to indicate this as it is dependent on factors such as the necessity of running additional studies relating to an EUPL entry. It was also noted that guidance on requirements would help provide a clearer picture for members. This was confirmed by the trade associations at the Food Contact Additives General Assembly which took place on 13 September 2023 and was attended by WSP and ECHA

4. Analysis of the findings

Completed questionnaires were received from 26 stakeholders. Broken down by material type, there were 21 questionnaires completed for organics, 8 for metallics, 9 for cementitious and 7 for inorganic.

This section of the report is focused on entries that stakeholders have responded “yes” to the question of “*Please indicate whether the economic operator(s) you represent intend to submit an application to ECHA for the continued use of this starting substance / metallic composition / organic cementitious constituent / inorganic composition?*”.

The number of entries in total and the number with overlaps removed (e.g. where different stakeholders that have expressed their interest in submitting an application for the same entry) are shown in Table 4.1.

Table 4.1 – Number of entries stakeholders have responded that applications will be submitted for

Expiry date	2028		2031		2034		2037	
Material type	Anticipated number of entries	Unique entries	Anticipated number of entries	Unique entries	Anticipated number of entries	Unique entries	Anticipated number of entries	Unique entries
Organics	191	106	164	111	329	154	54	25
Metallics	N/A	N/A	15	7	64	36	N/A	N/A
Cementitious	97	69	127	101	80	54	18	14
Inorganics	N/A	N/A	17	11	N/A	N/A	N/A	N/A

- Organics: 738 intentions for starting substances (corresponding to 396 unique starting substances after removing overlaps);
- Metallics: 79 intentions for metallic compositions (corresponding to 43 unique compositions after removing overlaps);
- Cementitious: 322 intentions for organic cementitious constituents (corresponding to 238 unique constituents after removing overlaps); and
- Inorganics: 17 intentions for inorganic compositions (corresponding to 11 unique compositions after removing overlaps).

Organics

For the organics EUPL there were 396 unique entries, where stakeholders had indicated their intention to submit an application (across 14 stakeholders). The full table of substances where stakeholders have indicated their intention to submit an application is shown in Appendix A (Table A.1). A table of the substances that had five or more stakeholders is shown below (Table 4.2). The two substances that had the highest number of stakeholders (n=7) indicating they would be submitting an application to ECHA was silicon dioxide (EUPL no. 1390) and talc (EUPL no. 0529), which are both used as an additive and a polymer production aid.

Table 4.2 - Substances indicated by four or more stakeholders that they are intending on submitting an application to ECHA for the continued use of the starting substance

EUPL number	Substance group name	Expiry date	Technical function	Material category (number of stakeholders indicating this application)	Number of stakeholders indicating their intention to submit an application
1390	Silicon dioxide	2037	Additive Polymer production aid	Rubbers (3), coatings/adhesives (3), silicones (2)	7
0529	Talc	2037	Additive Polymer production aid	Rubbers (4), coatings/adhesives (3)	7
0347	Carbon black	2034	Additive	Rubbers (3), coatings/adhesives (3), silicones (1)	6
1351	Glass fibres	2031	Additive	Coatings/adhesives (2), plastics (3) and rubbers (1)	6
0071	Ethylene	2034	Monomer or other reactant	Rubbers (3), coatings/adhesives (2)	5
0216	Propylene	2034	Monomer or other reactant	Rubbers (1), coatings/adhesives (2), plastics (2)	5
0346	Kaolin	2028	Additive	Rubbers (2), coatings and adhesives (3)	5
0474	Polyethylene wax	2034	Monomer or other reactant (base oil) Additive Polymer production aid	Rubbers (2), coatings and adhesives (3)	5
0659	Kaolin, calcined	2034	Additive	Rubbers (3), coatings and adhesives (2)	5
1396	Polydimethylsiloxane (MW > 6 800 Da)	2034	Monomer or other reactant (base oil) Additive Polymer production aid	Rubbers (2), coatings/adhesives (2) and silicones (2)	5
1403	Titanium dioxide	2028	Additive Polymer production aid	Rubbers (2), coatings/adhesives (3), silicones (1) and other (1): bonding agent (not in direct contact with water).	5

From the stakeholders that responded “yes” to question 2,⁵ there were four stakeholders who responded that they would be applying for a nanoform of starting substances. There were 16 starting substances in total in which stakeholders expressed that that would apply for a nanoform (Table 4.3). Only two starting substances had multiple stakeholders indicating they would apply for a nanoform, which were silicon dioxide, silanated (EUPL no. 0040) and silicon dioxide (EUPL no. 1390), which had the same two stakeholders.

A further stakeholder, who did not respond to question 2, did respond ‘yes’ to the nanoform question and identified 38 further EUPL entries where the application will be for a nanoform of the starting substance. These 38 were EUPL nos. 1328, 1329, 1333, 1334, 1335, 1337, 1338, 1341, 1351, 1371, 1391, 1396, 1406, 1407, 1409, 1413, 1418, 1419, 1432, 1433, 1434, 1456, 1466, 1468, 1469, 1472, 1477, 1484, 1486, 1493, 1498, 1509, 1511, 1512, 1514, 1517, 1540 and 1579 (plus 1390, 1403 and 1515).

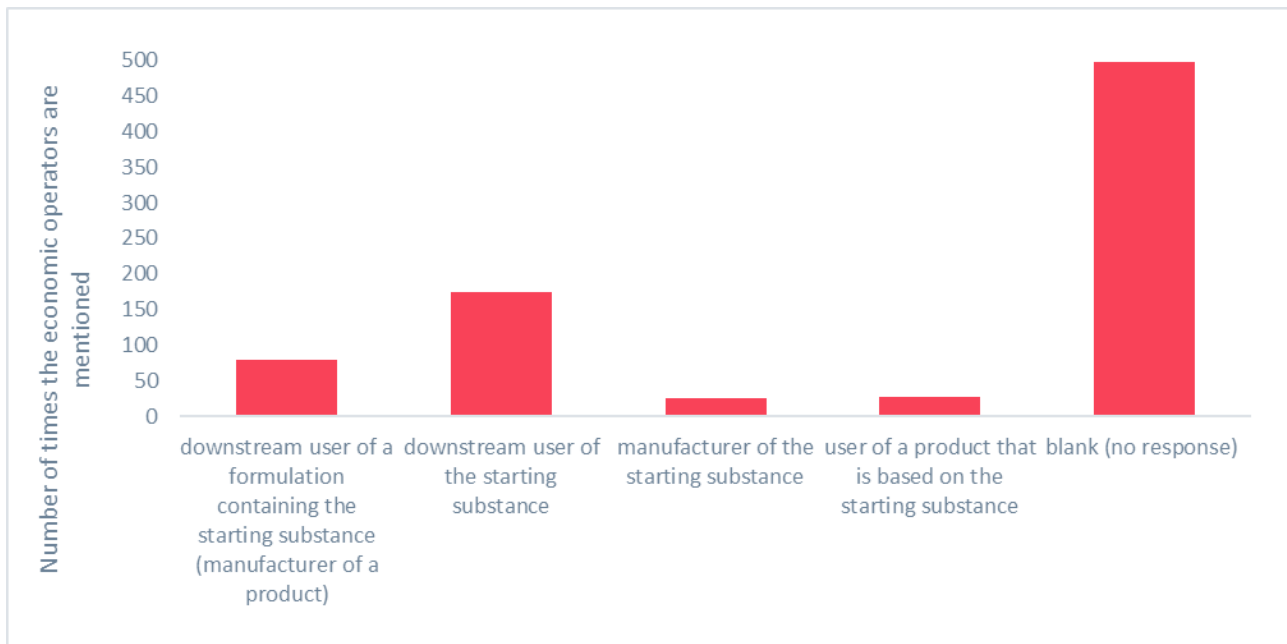
⁵ Question 2. Please indicate whether the economic operator(s) you represent intend to submit an application to ECHA for the continued use of this starting substance.

Table 4.3 - The substances where stakeholders have indicated that they will apply for a nanoform of the substance to ECHA

EUPL No.	Substance (group) name	Expiry date	Technical function	Material category (number of stakeholders indicating this application)	Numbers of stakeholders
0005	Carbonic acid, salts	2028	Additive, Polymer production aid,	Rubbers	1
0038	Silicates, natural, silanated (with the exception of asbestos)	2028	Additive	Rubbers	1
0040	Silicon dioxide, silanated	2028	Additive	Rubbers (1), silicones (1)	2
0340	Zinc oxide	2034	Additive Aid to polymerisation	Rubbers, other - Bonding agent (not in direct contact with drinking water)	1
0346	Kaolin	2028	Additive	Rubbers	1
0347	Carbon black	2034	Additive	Rubbers	1
0529	Talc	2037	Additive Polymer production aid	Rubbers	1
0530	Quartz	2034	Additive Polymer production aid	Rubbers	1
0537	Dolomite	2028	Additive or polymer production aid	Rubbers	1
0659	Kaolin, calcined	2034	Additive	Rubbers	1
1005	Quino [2, 3-b]acridine-6,7,13,14(5H,12H)-tetrone (quinacridinone quinone, QAQ)	2031	Additive	Plastics	1
1390	Silicon dioxide	2037	Additive Polymer production aid	Rubbers (1), silicones (1)	2
1403	Titanium dioxide	2028	Additive Polymer production aid	Rubbers, other - Bonding agent (not in direct contact with drinking water)	1
1503	Zeolites, natural and synthetic, sodium salts	2031	Additive Aid to polymerisation	Rubbers	1
1515	Silicon dioxide, reaction product with hexamethyldisilazane	2031	Polymer production aid	Silicones	1
1609	Silica and hydrated silicas	2031	Additive	Silicones	1

The most frequently mentioned role of the economic operators of stakeholders who responded that they would submit an application was the downstream user of the starting substance, for 175 EUPL substances (Figure 4.1). Following this was downstream user of a formulation containing the starting substance (manufacturer of a product) for 80 EUPL substances, followed by manufacturer of the starting substance and user of a product that is based on the starting substance at 26 and 27 EUPL substances respectively.

Figure 4.1 - The role of economic operators stakeholders represent in the supply chain for EUPL entries where it was indicated that applications will be submitted (note that for some substances multiple economic operators were mentioned)



Question 3 in the questionnaire was “For any EUPL entry that you have identified as relevant and if that entry is identified in Column C as a group entry, please indicate whether you agree with the classification of this entry as a group entry”. Table 4.4 shows the group entries identified as relevant by those stakeholders who agreed with the classification of the entries in question as group entries. The most common justification given for agreeing with the classification of group entries was due to EUPL substances having different structural formations or different polymer lengths (in the case of polymers). For example, they stated that silicon dioxide (EUPL no. 1390) can exist in several different crystalline forms, which can be challenging to identify individually. Therefore it is more appropriate to treat this as a group entry, as opposed to identifying each crystalline form. Other reasoning included for polymers such as polydimethylsiloxane (dimethicone) with a MW > 6800 Da (EUPL no. 1396), which may exist as varying lengths. Still, certain stakeholders expressed the view that treating members of some group entries as individual substances would be difficult.

Table 4.4 - The list of organic materials EUPL entries where stakeholders agreed with the classification of the substances in question as a group entry

EUPL No.	Substance (group) name	Technical function	Specified material category/ies such application will cover?	Specific, individual substances falling within the group for which applications will be submitted to ECHA	CAS number/EC number of specific, individual substances falling within the group for which applications will be submitted to ECHA	Justification (if given) as to why the stakeholder agrees to classification of EUPL as a group
1351	Glass fibres	Additive	Plastics	-	-	-
1351	Glass fibres	Additive	Plastics	-	-	-
1390	Silicon dioxide (SiO ₂)	Additive Polymer production aid	Rubbers	Siliceous Earth, calcined / Kaolinite	1214268-39-9 / 1318-74-6	SiO ₂ exist in several crystalline forms. It may be difficult to identify all the individual substances.
1390	Silicon dioxide	Additive Polymer production aid	Coatings/adhesives	Silicon dioxide	643-045-7, 7631-86-9	-
1390	Silicon dioxide	Additive Polymer production aid	Silicones	This entry may describe different polymorphs of silica, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 112926-00-8; 112945-52-5; 68909-20-6; 68611-44-9; 67762-90-6	-
1392	Sulphur	Aid to polymerisation	Rubbers	-	-	Element sulphur exists as many allotropes. The most common form of is octasulphur. It does not make sense to identify the individual substances.
1396	Polydimethylsiloxane (MW > 6 800 Da) (also called dimethicone)	Monomer or other reactant (base oil) Additive Polymer production aid	Rubbers	-	-	Consists of many polymer chain lengths. It does not make sense to identify these individually. The molecular weight, which is related to the chain length, is already specified.
1403	Titanium dioxide (TiO ₂)	Additive Polymer production aid	Rubbers, other - Bonding agent (not in direct contact with drinking water)	-	-	TiO ₂ exist in several crystalline forms. It may be difficult to identify all the individual substances.
1403	Titanium dioxide	Additive Polymer production aid	Coatings/adhesives	Titanium dioxide	643-044-1, 13463-67-7	-
1406	Polyethylene glycol	Monomer or other reactant Additive Polymer production aid	Rubbers	-	-	Consist of many polymer chain lengths. It does not make sense to identify these individually.

EUPL No.	Substance (group) name	Technical function	Specified material category/ies such application will cover?	Specific, individual substances falling within the group for which applications will be submitted to ECHA	CAS number/EC number of specific, individual substances falling within the group for which applications will be submitted to ECHA	Justification (if given) as to why the stakeholder agrees to classification of EUPL as a group
		Aid to polymerisation				
1462	Organo polysiloxanes, linear and branched, with methyl groups alone and/or n-alkyl(C2-C32)-, and/or phenyl-2, and/or vinyl-, and/or hydroxyl-, and/or alkoxy(C1-C4)-, and/or hydrogen-, and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)-, and/or hydroxyalkyl(C1-C3)-groups	Monomer or other reactant Additive (polymeric)	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 2554-06-5; 63148-62-9; 67762-94-1; 67923-19-7; 68037-59-2; 68082-23-5; 68083-18-1; 68083-19-2; 69013-23-6; 70131-67-8; 70900-21-8	-
1463	Organopolysiloxanes, linear or branched, as mentioned PM/REF No. 69848, but in addition with up to max. 5 % hydrogen and/or alkoxy(C2-C4) and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)- and/or hydroxyalkyl(C1-C3) groups attached to the silicon atom	Monomer or other reactant Additive (polymeric)	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 69013-23-6; 70900-21-9; 68037-59-1	-
1466	Organopolysiloxanes, linear or branched with methylgroups	Monomer or other reactant (base oil)	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 63148-62-8	-
1467	Organopolysiloxanes with vinyl groups attached to the silicon atom	Monomer or other reactant Additive (polymeric)	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 67762-94-1; 67923-19-7; 68082-23-5; 68083-18-1; 68083-19-2; 2554-06-5; 2627-95-3	-
1470	Platinum complexes	Aid to polymerisation	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 68478-92-1	-
1498	2,2,4-trimethyl-1,2-dihydrochinolin (polymerised)	Additive	Rubbers	-	-	Consist of many oligomer chain lengths. It does not make sense to identify these individually.
1514	Silicon dioxide, reaction product with dimethyldichlorosilane	Polymer production aid	Coatings/adhesives	Silicon dioxide, reaction product with dimethyldichlorosilane	271-893-4, 68611-44-9	-
1517	Phenolformaldehyde resins	Aid to polymerisation	Other - Bonding agent (not in direct contact with drinking water)	-	-	Consist of many polymer chain lengths. It does not make sense to identify these individually.
1562	Epoxy resins	Other (used in the casting)	Coatings/adhesives	Bisphenol (Epoxy Resin)	682-390-8, 25036-25-3	-

EUPL No.	Substance (group) name	Technical function	Specified material category/ies such application will cover?	Specific, individual substances falling within the group for which applications will be submitted to ECHA	CAS number/EC number of specific, individual substances falling within the group for which applications will be submitted to ECHA	Justification (if given) as to why the stakeholder agrees to classification of EUPL as a group
		process to produce cast film or moulding)				
1579	Microcrystalline waxes	Additive	Rubbers	-	-	This is a mixture of substances. It does not make sense to identify each substance individually.
1590	Organopolysiloxanes with methyl groups	Monomer or other reactant	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 63148-62-8	-
1599	Organopolysiloxanes with vinyl groups	Monomer or other reactant	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 67762-94-1; 67923-19-7; 68082-23-5; 68083-18-1; 68083-19-2; 2554-06-5; 2627-95-3	-
1609	Silica and hydrated silicas	Additive	Silicones	This entry may describe different polymorphs of silica , having many different CAS numbers, that are not easily collectable in the short commenting time.	See EUPL No. 1389	-
1610	Silicone oils	Additive	Silicones	-	-	-
1627	Organopolysiloxanes (silicones), with two methyl groups to each silicon atom, molecular weight 13,5-30	Additive or polymer production aid	Silicones	This entry describes many different polymers, having many different CAS numbers, that are not easily collectable in the short commenting time.	Amongst others (non-exhaustive list): 63148-62-8	-

Table 4.5 shows the entries identified as relevant by stakeholders who disagreed with the classification of the entries in question as a group entry. Four stakeholders disagreed with the grouping classification for seven of the substances. There were no overlaps for disagreements between the seven substances that were highlighted. Reasoning for the disagreement was only given by three of the stakeholders.

Interestingly there was cross over in substances that other stakeholders had agreed with the group classification entry. These were for glass fibres (EUPL no. 1351), polydimethylsiloxane (MW > 6 800 Da) (EUPL no. 1396) and platinum complexes (EUPL no. 1470). Regarding glass fibres, the stakeholder disagreeing with the entry being a group entry highlighted that this entry covers the glass component of "Continuous Filaments glass fibre" articles used as additives to plastics. They stated that the most common glass composition of glass fibres plastic reinforcement is "E-glass" which is described in Standard ASTM D578. For platinum complexes, one stakeholder disagreed with this being a group entry. They stated that an application will be submitted for 1,3-diethenyl-1,1,3,3-tetramethyldisiloxane and its platinum(0) complexes (701-315-2) as an individual starting substance. They said that this substance mentioned is a UVCB⁶ that has been intentionally designed by the Platinum Group Metals (PGM) industry to act as catalyst in the silicone industry. This substance replaces earlier catalysts (like hexachloroplatinate salts) that are classified as highly potent respiratory sensitizers and thus not most suited for industrial uses where workers might be exposed. The stakeholder said that in their association, they have no other Pt compounds that are being used as a catalyst in the silicone industry and this is why they answered 'no' to the question on agreement with this being a group entry.

Table 4.5 - The list of organic EUPL entries where stakeholders disagreed with the classification of the substances in question as a group entry

EUPL No.	Substance (group) name	Technical function	Material category/ies such application will cover?	Reasoning for disagreement
0040	Silicon dioxide, silanated	Additive	Coatings/adhesive, silicones, other - catalyst for the polymerization reaction	Not provided
0995	Zinc dibutyldithiocarbamate	Aid to polymerisation	Rubbers	Not provided
1351	Glass fibres	Additive	Plastics	"Glass fibres" entry covers the glass component of "Continuous Filaments glass fibres" articles used as additive to plastics. The most common glass composition of glass fibres plastic reinforcement is "E-glass" which is described in Standard ASTM D578. Note: glass fibre sizing agents are assessed according to EFSA Scientific Opinion 10.2903/j.efsa.2015.4168 https://www.efsa.europa.eu/en/efsajournal/pub/4168#
1396	Polydimethylsiloxane (MW > 6 800 Da)	Monomer or other reactant (base oil) Additive Polymer production aid	Silicones	This entry describes polydimethylsiloxanes having a unique CAS number 63148-62-9.
1427	Mixture composed of 97 % tetraethyl orthosilicate (TEOS) with CAS No. 78-10-4 and 3 % hexamethyldisilazane (HMDS) with CAS No. 999-97-3	Monomer or other reactant	Silicones	Mixture with defined CAS numbers
1470	Platinum complexes	Aid to polymerisation	Silicones, coatings/adhesives	This substance (registered as UVCB under EU REACH) has intentionally been designed as catalyst in the silicone industry. 1,3-diethenyl-1,1,3,3-

⁶ Unknown or variable composition, complex reaction products or biological materials

EUPL No.	Substance (group) name	Technical function	Material category/ies such application will cover?	Reasoning for disagreement
				tetramethyldisiloxane and its platinum(0) complexes. 701-315-2
1515	Silicon dioxide, reaction product with hexamethyldisilazane	Polymer production aid	Silicones	This entry describes silicon dioxide, reaction product with hexamethyldisilazane having a unique CAS number 68909-20-6.

A small number of stakeholders provided additional comments in response to the questionnaire. One stakeholder responded that for many of the substances they indicated they intended to submit an application for, they would only do it if the costs were shared among all users or if existing data could be used for the assessment. Another stakeholder agreed with EUPL nos. 1462, 1463, 1467, 1470, 1590, 1599, 1609 and 1627 being group entries. They commented that these group entries contain many different polymers with different CAS numbers, noting a difficulty in collecting all the CAS numbers within the consultation period. Similarly, for EUPL nos. 1390 and 1609, the same stakeholder commented that these group entries contain many different polymorphs of silica, again noting the difficulty of collecting all of the CAS numbers within the consultation period. A stakeholder questioned whether they should apply for an individual polymer or the monomer units used to make the polymer.

Fourteen stakeholders suggested additional starting substances that they knew to be relevant to the manufacture of organic materials in contact with water intended for human consumption and are currently missing from the first EUPL. 267 additional organic substances were identified by stakeholders as being missing from the EUPLs. These are shown in Appendix B (Table B.1). In addition to the 267, 97 additional starting substances for ion exchange resins were also identified, however, these will likely not need to be listed in the EUPL. One of the additional substances identified was p-benzoquinone dioxime, where the stakeholder responded that whilst it wasn't in direct contact with drinking water it is used as a bonding agent. The additional entries identified covered a broad range of material categories including silicones, plastic, coatings, adhesives, sealants, glue and superplasticisers.

One stakeholder identified organics substances that they considered to be overlapping. Specifically, they stated the following:

- EUPL no. 1462 covers EUPL nos. 1463, 1466, 1467;
- EUPL no. 0040 covers EUPL no. 1515;
- EUPL nos. 1462 and 1466 cover EUPL nos. 1590 and 1627;
- EUPL nos. 1462 and 1467 covers EUPL no. 1599; and
- EUPL nos. 1462, 1466 and 1467 covers EUPL no. 1610.

Metallics

In the metallics list there were 79 compositions where stakeholders indicated their intention to submit applications to ECHA for the continued use of the composition (across six stakeholders). This results in 43 compositions when removing overlaps (compositions where multiple stakeholders have indicated their intention to submit applications for the same composition. These are shown in Appendix A (Table A.2)). A table of the compositions that attracted the interest of three or more stakeholders may be found below (Table 4.6). The composition that had the highest number of stakeholders (n=6) indicating they would be submitting an application to ECHA was for copper alloys not elsewhere categorised (EUPL no. 1693).

Two stakeholders responded that they intended to submit applications for metal compositions but specified different product grouping to the A – D product groups specified in the draft legislation. One

stakeholder informed that they used a product grouping table that was created for organic materials in contact with drinking water. Specifically, they were using Table 5 in the 'Commission Implementing Decision annex of establishing procedures and methods for testing and accepting final materials as used in a product in contact with water intended for human consumption as provided for in Directive (EU) 2020/2184 of the European Parliament and of the Council.'⁷ It is understood that this is a misunderstanding by the stakeholder and the stakeholder has been informed on the A – D product grouping for metallic compositions. The stakeholder suggested that where they have said product group 'E', this is equivalent to product group B for metallic compositions; where they have said product group 'F', this is equivalent to product group C for metallic compositions and where they have said 'G', this is equivalent to product group D for metallic compositions.

Table 4.6 - Compositions indicated by three or more stakeholders that they are intending on submitting an application to ECHA for the continued use of the composition

EUPL No	Category of metal composition	Accepted metal composition notation(s)	Expiry date	Relevant product groups ⁸	Product groups the application will cover.	Number of stakeholders
1693	Copper alloys not elsewhere categorised	Other copper alloys for Product Group D	2031	D	B (2); D (2); B, C, D* (2)	6
1660	Copper-Zinc-Silicon-Phosphorus alloys	CW724R (CuZn21Si3P)	2034	B – D	B - D (1); B, C, D*(2)	3
1661	Copper-Zinc-Silicon-Phosphorus alloys	CC768S (CuZn21Si3P)	2034	B – D	B - D (1); B, C, D* (2)	3
1670	Coppers	CW024A (Cu-DHP)	2034	A – D	A - D (1); B, C, D* (2)	3
1671	Coppers	CW004A (Cu-ETP)	2034	C – D	C - D (1); C, D* (2)	3
1672	Coppers	CW008A (Cu-OF)	2034	B – D	B - D (1); B, C, D* (2)	3
1673	Coppers	CW020A (Cu-PHC)	2034	B – D	A - D (1); B, C, D* (2)	3
1674	Coppers	CW021A (Cu-HCP)	2034	B – D	B - D (1); A: pipes (1); E, F, G (1)	3
1675	Coppers	CW023A (Cu-DLP)	2034	B – D	B - D (1); B, C, D* (2)	3
1678	Steel/Iron	Galvanised steel	2034	A – D	D: (1); B, C, D* (2)	3
1679	Steel/Iron	Carbon steel according to EN 10025 / EN 10213 / EN 10222	2034	Carbon steel with protective layer/coating: A - D.	C, D (1); B, C, D* (2)	3
1681	Steel/Iron	Stainless steels according to EN 10088 and EN 10283	2034	A - D	C, D (1); B, C (1); B, C, D* (1)	3

⁷ Available at: <https://circabc.europa.eu/ui/group/65764c73-4a57-45dc-8199-473014cf65bf/library/e9c1d8bb-a2ef-45ca-814a-9c7645e36751/details>

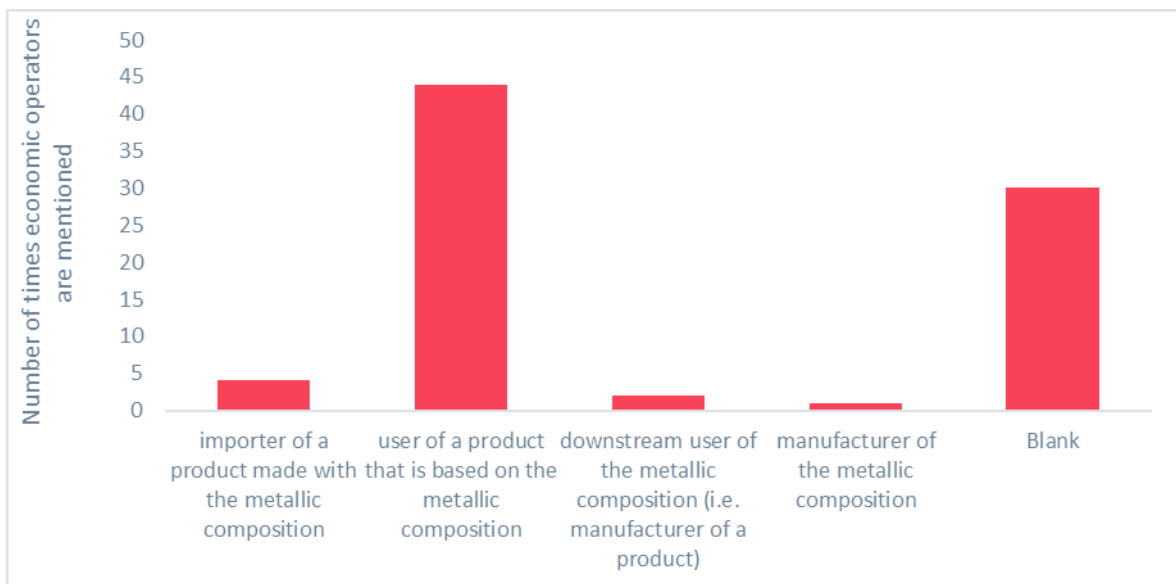
⁸ Metallic Product Groups include: A – Pipes. B - Fittings, ancillaries in buildings installations. C.1 - Components of products of Product Group B. The sum of the surfaces in contact with water intended for human consumption of all these components has to be less than 10% of the total wetted surface of the product. C.2 - Fittings, ancillaries in water mains and water treatment works with permanent flow. D - Components of fittings and ancillaries in water mains and in water treatment works (C2 above).

EUPL No	Category of metal composition	Accepted metal composition notation(s)	Expiry date	Relevant product groups ⁸	Product groups the application will cover.	Number of stakeholders
1684	Platings	Electrolytic Nickel/Chromium platings	2031	B	B (1); D (1); B (1)	3

* In these cases, the stakeholder used E, F and / or G. It was explained previously that this was a misunderstanding by the stakeholder and we have used the equivalent B, C, D product grouping they suggested.

Figure 4.2 shows the role of economic operators who responded that they would submit applications for compositions on the metallics list. The most frequently cited was “User of product that is based on the metallic composition” for 44 of the compositions. The least frequently cited role was “Manufacturer of the metallic composition” with only one mention for composition cast iron according to EN 1561 / EN 1563 (EUPL 1680).

Figure 4.2 - The role of economic operators who answered “yes” to question 1 of the metallics EUPL (note that for some compositions multiple economic operators were mentioned)



Seven stakeholders suggested additional compositions that they knew to be relevant to the manufacture of metallic materials in contact with water intended for human consumption and are currently missing from the first EUPL. 17 additional metallic compositions were identified by stakeholders as being missing from the EUPLs. These are shown in Appendix B (Table B.2). Two of the stakeholders indicated just one metallic composition each, and the remaining five stakeholders mentioned between 2-10 additional compositions. There was some cross over between additional compositions mentioned, for example stainless steel was mentioned by two stakeholders. Various copper alloys were also consistently mentioned, for example brass (CuZn₄₀Pb₂) was mentioned by four different stakeholders. Such copper alloys initially were in the first draft of the EUPLs but were subsequently excluded due to concerns over the release of lead.

Cementitious

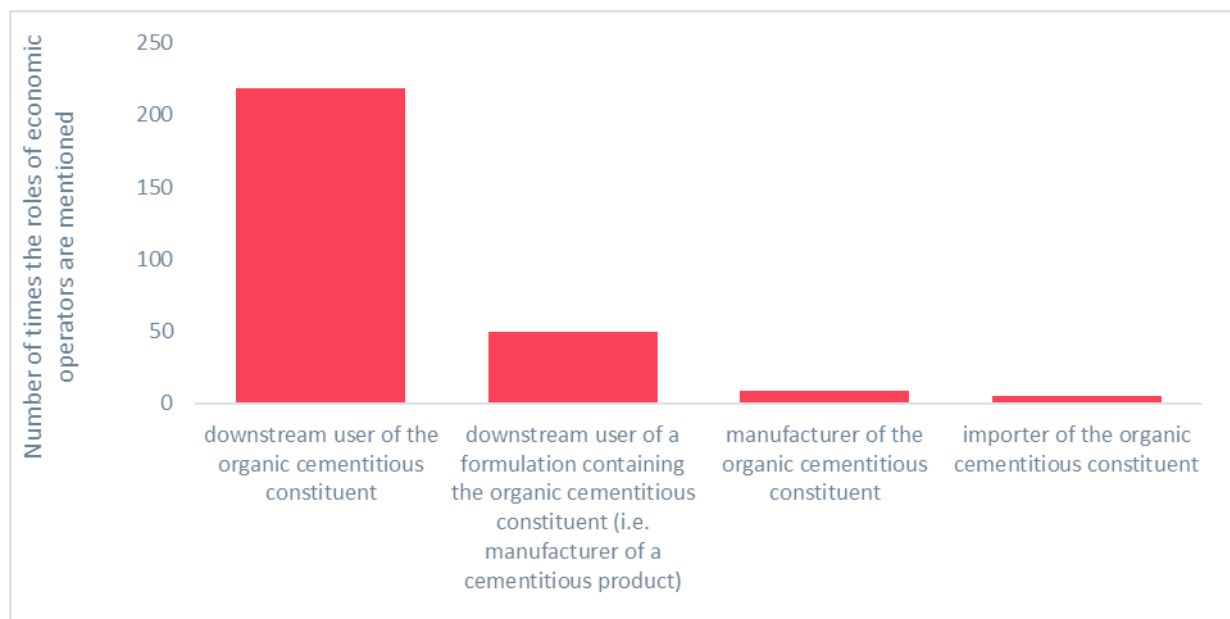
For the cementitious list, there were 322 organic constituents in total where stakeholders had indicated their intention to submit an application to ECHA (across four stakeholders). This resulted in 238 organic constituents when removing overlaps. There were 77 constituents that multiple

stakeholders had indicated they would submit an application. The full list of constituents is shown in Appendix A (Table A.3).

No stakeholder among those who responded for the cementitious EUPL identified that they were applying for a nanoform of a substance. However, one stakeholder did provide a comment to EUPL nos. 1971 (dimethyl siloxane reaction products with silica) and 2012 (silane, dichlorodimethyl-, reaction products with silica). Their comment was under the option to provide comments or suggest corrections to the information presented in the EUPLs. They informed that that the following should be specified in the information for EUPL nos. 1971 and 2012 “*primary particles of 1 – 100 nm which are aggregated to a size of 0.1 – 1 µm which may form agglomerates within the size distribution of 0.3 µm to the mm size*”.

Figure 4.3 shows the role of economic operators who responded that they would submit applications for constituents on the cementitious list. For the role of economic operators of the most often identified role was downstream user of the organic cementitious constituent (mentioned 218 times). The least mentioned role was for the importer of the organic cementitious constituent (mentioned five times).

Figure 4.3 - The role of economic who answered “yes” to question 1 of the cementitious EUPL (note that for some constituents multiple economic operators were mentioned)



One stakeholder agreed with the classification of the following EUPL nos. as group entries: 1994 (application to be submitted for poly(dimethylsiloxane) / CAS no. 9016-00-6), 1995, 1996, 1997, 2001, 2002, 2023, 2028 (application to be submitted for CAS no. 64787-97-9) and 2029 (application to be submitted for naphthalenesulfonic acid, polymer with formaldehyde, sodium salt / CAS no. 9084-06-4). There was disagreement with treating identified relevant EUPL entries as a group for nine of the EUPL entries (Table 4.7).

Table 4.7 - The list of EUPL constituents where stakeholders disagreed with the classification of the constituents in question as a group entry with reasoning given as to why

EUPL number	Substance (group) name	Number of stakeholders	Reasoning given for disagreement for EUPL to be treated as a group entry
1748	Naphthalenesulfonic acid, polymer with formaldehyde, calcium salt	1	Proprietary polymer

EUPL number	Substance (group) name	Number of stakeholders	Reasoning given for disagreement for EUPL to be treated as a group entry
1749	2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	1	Proprietary polymer
1755	Polycarboxylic acid salt type surfactant	1	Salts can be Na, K, Ca, Mg
1974	Glucose	1	Natural product
1976	Naphthalenesulfonic acids, reaction products with formaldehyde, sodium salts	1	Proprietary polymer
1994	Polydimethylsiloxane	1	This entry describes polydimethylsiloxanes having a unique CAS number 63148-62-9
2015	Alcohols, C8-C18, ethoxylated propoxylated	1	Polymer
2016	Alcohols, C12-C18, ethoxylated propoxylated	1	Polymer
2027	Polycarboxylate ether made of acrylic acid (CAS No. 79-10-7) and poly(oxy-1,2-ethanediyl), α-[4-(ethenoxy)butyl]-ω-hydroxy- (CAS No. 126682-74-4) and poly(oxy-1,2-ethanediyl), α-(3-methyl-3-buten-1-yl)-ω-hydroxy- (CAS No. 110412-77-6), hydroxypropylacrylate (CAS No. 25584-83-2) and polyethylene glycol monomethallylether (CAS No. 31497-33-3)	1	The description of the group is either too broad, including several macro monomers at the same time or too narrow, by not including e.g. PCEs that are made with Hydroxyethylacrylate (CAS: 818-61-1) or Methacrylic acid (CAS: 79-41-4).

Removal of constituents

One stakeholder provided feedback that the salts of authorised acids, phenols and alcohols should be considered covered by the respective entry. This feedback was sent to ECHA and the salts have now been removed from the EUPL.⁹

Additional constituents

100 (once duplicates are removed) additional constituents were highlighted as potentially relevant to the manufacture of cementitious materials in contact with water intended for human consumption and are currently missing from the first EUPL, these are shown in Appendix B (Table B.3). 39 of these 100 additional constituents identified are inorganic and are therefore outside scope of Article 11 of the DWD. Additional constituents were identified by three stakeholders, with one stakeholder identifying 74 % of the total additional constituents, one stakeholder identifying 24 % of the total additional constituents and one stakeholder identifying the remaining 2% of the total additional constituents. Admixtures was the most cited constituent category, accounting for 61 of the additional constituents. Others included aids to polymerisation (11 constituents) and formwork release agents (9 constituents). The answer option for additional entries and their constituent categories allowed the stakeholder to respond using open text. This has resulted in some answers having been provided that do not fall within the defined constituent categories set out in previous questions (e.g. as in question 1a *If yes, please specify which constituent category/ies such application will cover?*). A broad range of technical functions was covered with these 100 suggested constituents, the most common mention was as use of the constituent as raw material (10 constituents). Other functions mentioned were for use as a monomer (9 constituents), as a reaction product (7 constituents), as an accelerator (5 constituents) and as a base oil (3 constituents).

The cementitious technical function cell in the Excel questionnaire was an open-text response option. This means that some of the responses listed above are not recognised as a clear technical function. Further clarification on this was sought from stakeholders. Feedback provided was:

- Raw material: (Stakeholder 1) - The stakeholder noted a difference between how a manufacturer or a downstream user might define a raw material. For a manufacturer, the 'raw material' is considered to be a starting substance that is used in a chemical reaction in production. The raw

⁹ The stakeholder provided examples that trisodium citrate (CAS 68-04-2) and trisodium citrate dihydrate (CAS 6132-04-3) should be covered by citric acid (anhydrous) (CAS 77-92-9). They also stated that hydrates of acids, phenols and alcohols and their salts should be considered covered by the respective entry.

material is the starting point and disappears during the reaction. For a downstream user, the raw material is considered to be a substance usually added to admixtures. (Stakeholder 2) – The stakeholder explained that raw material means that it is used for manufacturing an admixture or organic addition.

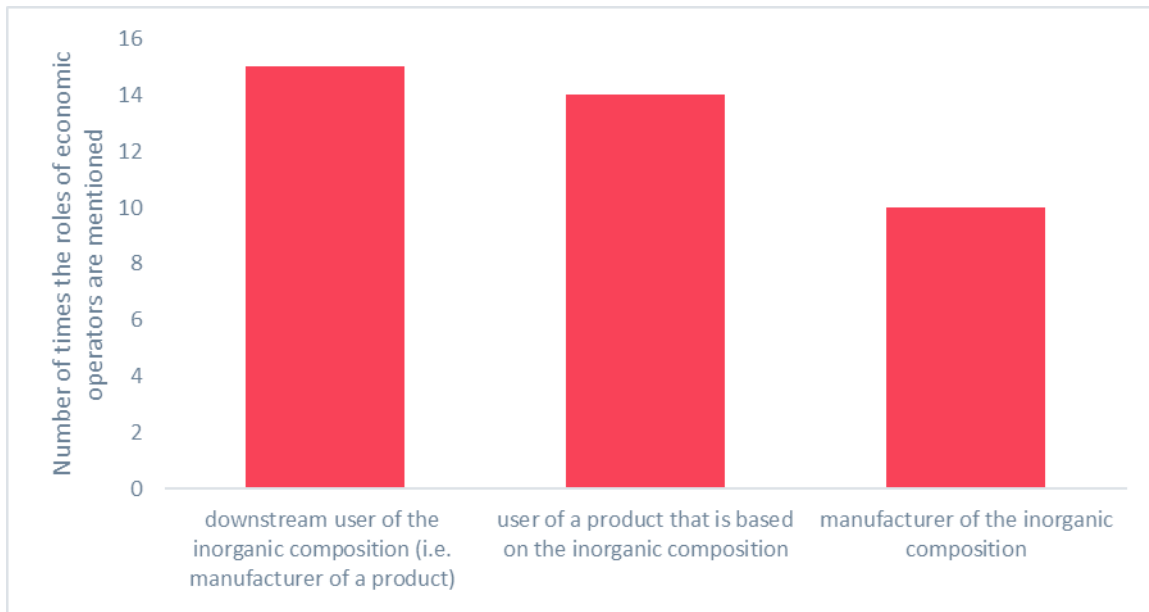
- Reaction product: (Stakeholder 1) - The stakeholder explained that this usually means the intended product (and not a by-product). However, in one of their members' response, they noted that 'reaction product' was also used for non-intentional reaction products. For example, one raw material is the reaction starter "sodium peroxodisulphate", which is used for polymerisation. It is used in small amounts and results in e.g. sodium sulphate (which was listed as an additional entry). The stakeholder noted that in this way, the entries reflect the full spectrum of possible substances after a chemical reaction. (Stakeholder 2) - The stakeholder stated that a reaction product refers to one formed before it is put into the cementitious mixture.
- Accelerator: (Stakeholder 1) - The stakeholder noted that this term was used by a downstream user and refers to the promotor of the hardening of concrete. (Stakeholder 2) - This is a special group of admixtures, the technical function of which is to accelerate the hardening of the mortar/concrete.
- Base oils: The stakeholder informed that this refers to the base oil of a concrete release agent.

Inorganics

In the inorganics list there were 17 compositions where stakeholders indicated their intention to submit applications to ECHA for the continued use of the composition (across five stakeholders who expressed an intention to apply for one or more EUPL entries). This results in 11 compositions when removing overlaps (compositions where multiple stakeholders have indicated their intention to submit applications). A table of these compositions may be found in Appendix A (Table A.4). The composition that had the highest number of stakeholders (n=4) indicating they would be submitting an application to ECHA was for enamel (EUPL no. 2031).

Figure 4.4 shows the role of economic operators who responded that they would submit applications for compositions on the inorganics list. There were 5 stakeholders who provided a questionnaire response where they had responded 'yes' to question 1. There was a relatively even spread of roles of economic operators for compositions in the inorganic EUPL, with downstream user of the inorganic composition having 15 responses, users of a product that is based on the inorganic composition having 14 responses, and manufacturer of the inorganic composition at 10 responses.

Figure 4.4 - The role of economic operators who answered “yes” to question 1 of the inorganics EUPL (note that for some compositions multiple economic operators were mentioned)



Two stakeholders suggested additional compositions that they knew to be relevant to the manufacture of inorganic materials in contact with water intended for human consumption and are currently missing from the first EUPL. Four additional inorganic compositions were identified by stakeholders as being missing from the EUPLs plus a comment on inorganic species was provided. These are shown in Appendix B (Table B.4). The compositions suggested were hafnium oxide (HfO_2), gravel, macadam and sand. The latter three are filtering materials which are outside the scope of DWD Article 11.

The stakeholder (a trade association) that identified hafnium oxide (HfO_2) commented that this is a by-product of zirconium oxide which is already included in the EUPL (EUPL no. 2035). They informed that one of their members made a request for the introduction of HfO_2 to the 4MSI positive list and this is currently being assessed by the German Federal Environmental Agency (UBA). According to the latest information from UBA, they said that they are in the process of publishing the new 4MSI positive list that includes HfO_2 . The stakeholder therefore requested that HfO_2 is included in the EUPL.

This stakeholder also made reference to the Evaluation Criteria Document for enamels and ceramic materials in contact with drinking water.¹⁰ They highlighted that in this document, for Al_2O_3 and SiO_2 ceramics, it states that inorganic sulphur species as contaminants with a total content of up to 0.5% can be ignored. They stated that the UBA is considering to apply this same criteria for enamel. The stakeholder informed that they follow the recommendations of the UBA.

Interviews and follow ups

Follow up questions

Responded to many entries

Some stakeholders indicated that they or their members would intend to submit applications for many entries. As a follow-up in such cases, stakeholders were asked to confirm if they think that these will

¹⁰ Available at:

https://www.umweltbundesamt.de/sites/default/files/medien/5620/dokumente/bewertungsgrundlage_fur_email_und_keramik_1.anderung_en.pdf

translate into actual applications, given the volume of information and analysis required for an application. The responses received to this question are summarised below:

- Pressure will be put on their suppliers to submit applications for substances they manufacture. They also said that whether they submit applications will be influenced by the nature of the application process and cost that will be entailed. They further said that once the cost per substance is known, they will decide whether to submit an application or limit their product portfolio (based on a cost/benefit assessment).
- One stakeholder who was a trade association who responded to many cementitious entries, indicated that when it has been selected in the questionnaire that they intend to submit an application, this may mean that a member will submit an application or they think an application is necessary. However, they could not say with complete certainty at this stage.
- One stakeholder responded with 'yes' that their members intended to submit applications for 181 entries in the organic materials EUPL. When asked to confirm if they think that these will translate into actual applications, they responded that a high proportion of the substances were essential for the production of construction chemicals and products. Therefore, to protect the future utilisation of these substances, they expected that it is likely that applications will be submitted.

Additional entries

Many stakeholders listed additional entries they considered to be missing from the EUPLs. Stakeholders were asked if they expect they or the members they represent would submit an application for the approval of such entries. The feedback to this question was generally that yes they would. The responses received to this question are summarised below:

- One stakeholder who was a trade association informed that if their members had listed an additional entry, this is because either they will submit an application or that they think an application is necessary. However, they also highlighted that they could not guarantee with 100% certainty that an application would be made.
- One stakeholder informed that some of the additional entries listed are used in high volumes and are used by several companies. Therefore, the stakeholder expected that applications would be submitted for such entries.
- One stakeholder informed that they would likely put pressure on their suppliers to submit applications. They again highlighted concerns surrounding the cost aspect of the applications.
- One stakeholder informed that their members are users of the additional entries and the stakeholder informed that they would aim to get manufacturers to submit applications.
- One stakeholder informed that some of the additional entries they listed were essential for production processes for construction chemicals and products so they would have interest in submitting applications for them. Other additional entries that they listed were by-products created during the production process. They informed that they were not certain whether applications for by-products will be required.¹¹

Nanoforms

Some stakeholders responded that they intended to apply for a nanoform of an entry in the organic materials EUPL. A follow up question was asked to understand how many nanoforms this may be

¹¹ By-products would not be listed in the EUPL but may appear as a condition of use for an intentionally used substance.

for. One stakeholder informed that they did not know, but that safety data sheets for their fillers contain nanoforms. One stakeholder informed that it would be for one substance.

Answered that they will not submit an application

Some stakeholders responded with an answer of 'no' they or the economic operators they represent do not intend to submit an application for the continued use of such entry. In these cases, they were asked a follow up question to provide further clarification on the reason for this answer.

- One stakeholder had answered 'no' to EUPL no. 1297 (hexachloroplatinic acid), with a comment saying "to our understanding, and considering the hazard profile of this substance, it is only used as industrial intermediate in the production of other Pt (Platinum) substances".
- One stakeholder had responded with 'no' to 640 organic EUPL entries. The stakeholder elaborated that for substances that they are a downstream user of, they would not intend to submit an application. However, they did identify EUPL nos. 0071 ethylene and 0216 propylene as substances they manufacture themselves, and that they may need to submit an application for. They also said that a consortium-based approach may be required for such application.
- One stakeholder responded with 'no' because they were product users rather than manufacturers of the material. They also noted that as users of the product, they do not have knowledge of all the substances that are used in the production and in the end product. They did highlight that it would be a real issue if ethylene was not on the EUPL due to its widespread use for polyethylene pipes.
- One stakeholder who was a trade association said that their reason for not submitting an application was because they are users of starting substances, metallic compositions, or inorganic compositions or users of a product based on the inorganic composition. They informed that they would endeavour to ensure the manufacturer of the substance or composition will submit an application.
- One stakeholder responded 'no' to an application for borosilicate glass (EUPL no. 2032). Their reason for this was that borosilicate glass would be on the list. This may have been a misunderstanding of the draft list by the stakeholder, and it was subsequently clarified to the stakeholder that for an entry to be retained on the list and therefore for the continued use of borosilicate glass, an application will need to be made to ECHA.

Interview feedback

Three interviews were held. Two of these were with trade associations and another was with a water utility company.

For stakeholders that had not yet been able to provide an answer the questionnaire question of '*please indicate whether the economic operator(s) you represent intend to submit an application to ECHA for the continued use of this entry*', they were asked in the interview if they were able to provide any further update on this. They were also asked if they were able to provide an estimate of numbers of entries. A response to this latter question was that they estimated a 'few hundreds' of entries are likely to be considered for applications. This also multiplies due to the group entries. Stakeholders advised that a limiting factor in organisations being able to provide an indication of the intention to submit an application was not yet knowing full details on the application process (i.e., through the guidance) and the costs it will entail to submit an application. They advised that it will likely be nearer the end of the year before organisations are able indicate the intentions with greater certainty.

A key point was raised with regard to competition legislation for trade associations. Stakeholders highlighted the issue that information was being collated from competitors. If one company learns

that another company intends to submit an application for an entry, then they may be inclined to not submit an application themselves if they understand someone else is going to do it. From a competition compliance perspective, an idea suggested was for members of a trade association to liaise with the European Commission directly on the subject of applications, rather than through the trade association. They said that this was an approach they had taken previously, however this was for a limited number of substances (around 5 – 6), so much lower compared to the numbers of EUPL entries.

Stakeholders were asked if they saw the potential for collaboration amongst members in submitting applications. A response was that some organisations are contacting the REACH consortia to understand if there is intention to work as a consortium. They said they have previously asked ECHA whether a consortium might be established. It is of interest to members to collaborate in cases joint applications are pursued. A different stakeholder advised that collaboration is a possibility. They suggested that downstream users will need to liaise with suppliers. A stakeholder that was a product user was asked if they planned collaboration with their suppliers regarding the DWD EUPLs. They informed that they needed to reach out to their suppliers on this subject.

Stakeholders were asked if they found that several of the organisations they represented tended to be interested in the same entries. A response was that there were some entries responded to more often, but no general trend was seen.

For a stakeholder who was a user of products, rather than a manufacturer of materials, they informed that they themselves would not intend to submit applications, however their suppliers will likely do. The stakeholder informed that larger companies are aware of the legislation, and they assumed such larger companies will be more likely to submit applications.

Regarding the additional entries that stakeholders listed, for some, stakeholders provided information on the origins and legislation surrounding such suggested entries. Where this information was not provided, stakeholders were asked if they were able to provide this information. Their response was that the inclusion of this information varied based on the member that was responding to the question. In some cases, the stakeholder informed that they would seek further clarification on this. One stakeholder informed that some of the additional entries listed for cementitious constituents were approved in Germany and others were not.

In the questionnaire responses, it was noted that some respondents disagreed with entries being a group entry and that the reason for which entries were grouped was unclear. During interview, where this was relevant, stakeholders were asked if they were able to provide further information on why they disagreed with the group entry classification. A response was that this may be because the members might have underestimated the complexity of the groups and / or the groups often do not match between Member States. Interviewees also said that they could seek further information from the questionnaire respondents to provide a brief explanation of their disagreement with certain group entries.

Stakeholders were asked if themselves or their members made preparations for the application process. The response was that organisations would like to see more guidance first on what is required before starting. The requirement of the toxicological assessment was a key area that members wanted to understand for their preparations. Stakeholders reiterated that the process for the DWD EUPL applications will require money and resources. Another stakeholder also raised that the application process will be complex and possibly costly. A remark from another stakeholder was that it is possibly too early to understand members' plans, but they highlighted that there is certainly interest in the topic. They also remarked that members still have questions on the process.

Several stakeholders expressed that they thought it was strange that inorganic constituents were not present in the cementitious material type EUPL. It was noted that in Germany, inorganic constituents are on the positive list for cementitious.¹²

¹² Stakeholder has been informed that inorganic constituents are allowed in cementitious material types as specified in Annex V of the DWD.

5. Conclusions

Process and methodology

The information collection tool was effective in obtaining stakeholder insight. Stakeholders were able to answer the questions in the information tool against the EUPL entries and they did not inform of any major difficulties in using the tool. The stakeholders were presented with all of the EUPLs allowing them to provide a response to those of interest to them.

There were limitations in the stakeholder engagement process, some of which were raised as issues by the stakeholders. These mainly related to the timing of the process. Stakeholders noted that the extent of the responses they were able to collate was hindered by conducting the consultation during the summer period as many representatives are away during this period. Stakeholders also noted that the EUPL lists are lengthy and require proper care and consideration, meaning that if they had more time to respond to the questionnaire (e.g., such as six months which was suggested by a trade association lead) they would have been able to provide a more complete and accurate response to the questions. This latter limitation was particularly relevant to the stakeholders' ability to accurately respond to the question of whether they or the economic operators they represent would intend to submit an application for the continued use of an entry. Some stakeholders expressed that it was still too early for them or their members in the EUPL process to confidently state that they would submit an application for entries on the EUPLs.

A further limitation of the study relates to the response of stakeholders. For the initial contact, stakeholders were contacted by email or by an online contact form. It was generally found that contact forms did not yield a satisfactory response rate. For stakeholders who agreed to participate in the study, they were sent the questionnaire. However, in some cases the stakeholder stopped responding to communications (including reminders) and a completed questionnaire was not received from them.

Outcomes

The study provided an early insight into the numbers of applications that ECHA may expect to receive from economic operators for the continued use of entries on the EUPLs. The number of entries in which interest in submitting applications was expressed by one or more stakeholders was 396 organic entries, 43 metallic entries, 238 cementitious entries and 11 inorganic entries. Where stakeholders indicated that they intended to submit an application for the continued use of many entries, they were asked to confirm if they think these will translate into actual applications, given the input that is required for an application. The general response was that they or their members did intend to submit an application or that they considered an application to be necessary. However, there was also an element of uncertainty at this stage as to whether they or their members would submit an application. Therefore, the numbers stated above can be considered to be estimated minimum numbers of entries for which stakeholders may submit an application or consider an application to be necessary. Additionally, one stakeholder who was a large trade association could not answer the question of whether their members would intend to submit applications for the entries. They did, however, respond to other questions within the questionnaire. These responses were counted to identify any further entries that stakeholders are interested in. This count yielded 714 organic starting substances. 467 of these were unique and did not overlap with the 396 identified by other stakeholders. Due to the limitations regarding the responses that stakeholders were able to provide, it is possible that the number of entries for which stakeholders are interested in submitting an application for will be higher than those stated above.

Several stakeholders identified additional entries that they considered to be missing from the draft EUPLs. The number of additional entries listed by stakeholders are as follows: 267 organic entries, 17 metallic entries, 61 cementitious entries and 1 inorganic entries.¹³ Stakeholders who identified additional entries were asked a follow up question on whether they expected that they or their members would submit applications for such entries. The responses to the follow up question included that they would submit applications; they expect that an application is necessary; they needed more information on the application process; or that they would encourage manufacturers to submit applications.

One stakeholder provided comments on the where they felt entries overlapped. This resulted in eight starting substances that were considered to be covered by other entries on this organic list.

Stakeholders were asked if their questionnaire can be directly shared with ECHA with the option of names and contact information to be removed, should this be their preference. 13 stakeholders agreed for their completed questionnaires to be shared with ECHA, with some asking for their names and contact information be removed.

Stakeholders were asked if they were interested in joining ECHA user groups providing input to IT tools or the guidance documents for the DWD EUPL applications procedure. Six stakeholders were interested in joining both groups, two stakeholders were interested in joining the guidance user group and one stakeholder was interested in joining the IT user group.

Final remarks and next steps

Stakeholders recognised the importance of the DWD EUPL legislation and those who participated in the study were very interested in the process overall. Stakeholders who were trade associations recognised the importance of further engaging with their members on the EUPL requirements. Some downstream users of products also expressed that they would make their suppliers aware of the legislation. Some general feedback was that larger organisations tend to keep more up to date with legislation and these types of organisations are more likely to submit applications.

A key point expressed by stakeholders was around the issue of shared costs. Under other legislation (e.g., REACH) substance information exchange fora (SIEFs) are used to draw together all interested parties who work collaboratively to share costs and create a single entry that covers everyone. Under the EUPL system it is understood that collaboration is not mandated by legislation but is possible on the stakeholders' initiative. Therefore, interested parties may act in isolation with duplication of effort for submissions to retain a substance on the list or they may collaborate. This may create an incentive for potential applicants to delay work in the hope that other companies (who are competitors) will submit an application which covers the entire sector.

Specifically, a concern around competition compliance related to this matter was raised by one stakeholder who was a trade association representative. Some stakeholders were open to collaboration with others for the application process and some expressed that a consortium could be a beneficial approach. One stakeholder (trade association) commented that they had looked at the possibility of using REACH SIEFs as a mechanism to identify potential interested parties for collaboration. However, it was also noted that REACH does not cover polymers, so this approach has only limited merits.

Several stakeholders expressed that they would like to know more details of the application process to understand the resources and costs required. Cost was identified as a critical factor in their willingness or ability to submit applications. The guidance documents will help them in their understanding and planning of the EUPL application process.

¹³ After the ion exchange resins are removed from the organic additional entries, the inorganic constituents are removed from the cementitious entries and the out of scope compositions are removed from the inorganic entries.

At the time of this report, there were some stakeholders who had not been able to collate their answer responses and needed more time. Therefore, some further feedback may become available at a later date. If it is agreeable to the stakeholder, such responses can be directly shared with ECHA.

Appendix A

Entries identified for applications

Table A.1 – 396 organic substances for which stakeholders responded that they intend to submit applications for.

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
1	0003			7	acetylacetic acid, salts	Additive or polymer production aid	2028	1
2	0005			21	carbonic acid, salts	Additive Polymer production aid Aid to polymerisation	2028	2
3	0015			39	glass microballs	Additive	2028	2
4	0026			70	polyacrylic acid, salts	Additive or polymer production aid	2037	2
5	0027			71	polydimethylsiloxane, γ -hydroxy propylated	Additive or polymer production aid	2034	2
6	0033			79	polyoxyalkyl (C2-C4) dimethyl polysiloxane	Additive Polymer production aid	2034	1
7	0037			84	silicates, natural (with the exception of asbestos)	Additive	2028	3
8	0038			85	silicates, natural, silanated (with the exception of asbestos)	Additive	2028	4
9	0039			86	silicic acid, silylated	Additive	2028	3
10	0040			87	silicon dioxide, silanated	Additive	2028	4
11	0045			93	waxes, paraffinic, refined, derived from petroleum based or synthetic hydrocarbon feedstocks, low viscosity	Monomer or other reactant (base oil) Additive Polymer production aid	2028	4
12	0046			94	waxes, refined, derived from petroleum based or synthetic hydrocarbon feedstocks, high viscosity	Additive Polymer production aid	2028	4
13	0047			95	white mineral oils, paraffinic, derived from petroleum based hydrocarbon feedstocks	Monomer or other reactant (base oil) Additive Polymer production aid	2028	4
14	0048			97	petroleum hydrocarbon resins (hydrogenated)	Monomer or other reactant (resin) Additive	2028	3
15	0049		50-00-0	98	formaldehyde	Monomer or other reactant	2028	2
16	0051		50-81-7	101	ascorbic acid	Monomer or other reactant	2037	2
17	0052		56-81-5	103	glycerol	Monomer or other reactant Additive Polymer production aid	2037	2
18	0054		57-10-3	105	palmitic acid	Monomer or other reactant	2037	1

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
						Polymer production aid		
19	0055		57-11-4	106	stearic acid	Monomer or other reactant Polymer production aid Aid to polymerisation	2037	3
20	0056		57-13-6	107	urea	Monomer or other reactant Additive Polymer production aid	2037	2
21	0060		64-17-5	113	ethanol	Monomer or other reactant Additive	2034	2
22	0061		64-18-6	114	formic acid	Monomer or other reactant Polymer production aid	2034	2
23	0062		64-19-7	115	acetic acid	Monomer or other reactant Polymer production aid	2037	3
24	0063		65-85-0	116	benzoic acid	Monomer or other reactant Polymer production aid Aid to polymerisation	2034	3
25	0064		67-56-1	117	methanol	Monomer or other reactant	2034	4
26	0065		67-63-0	118	2-propanol	Monomer or other reactant Polymer production aid	2034	2
27	0066		67-64-1	119	acetone	Polymer production aid	2034	2
28	0068		71-23-8	122	1-propanol	Monomer or other reactant	2034	2
29	0069		71-36-3	123	1-butanol	Monomer or other reactant Polymer production aid	2034	3
30	0070		71-41-0	124	1-pentanol	Monomer or other reactant	2034	2
31	0071		74-85-1	125	ethylene	Monomer or other reactant	2034	5
32	0072		74-86-2	126	acetylene	Monomer or other reactant	2034	2
33	0073		75-01-4	127	vinyl chloride	Monomer or other reactant	2028	1
34	0075		75-21-8	129	ethylene oxide	Monomer or other reactant	2028	3
35	0078		75-38-7	132	vinylidene fluoride	Monomer or other reactant	2034	1
36	0079		75-44-5	133	carbonyl chloride	Monomer or other reactant	2034	2
37	0080		75-45-6	134	chlorodifluoromethane	Additive or polymer production aid	2034	2
38	0082		77-62-3	137	2,2'-methylenebis(4-methyl-6-(1-methylcyclohexyl))phenol)	Additive	2034	1
39	0084		77-92-9	139	citric acid	Monomer or other reactant Polymer production aid	2037	2
40	0086		77-99-6	141	1,1,1-trimethylolpropane	Monomer or other reactant Additive	2034	3

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
41	0087		78-08-0	142	vinyltriethoxysilane	Additive Other (processing aid)	2034	2
42	0091		79-09-4	146	propionic acid	Monomer or other reactant	2037	2
43	0092		79-10-7	147	acrylic acid	Monomer or other reactant	2034	3
44	0094		79-39-0	149	methacrylamide	Monomer or other reactant	2034	2
45	0095		79-41-4	150	methacrylic acid	Monomer or other reactant	2034	3
46	0096		80-05-7	151	2,2-bis(4-hydroxyphenyl)propane	Monomer or other reactant Additive	2028	3
47	0101		80-62-6	156	methacrylic acid, methyl ester	Monomer or other reactant	2034	2
48	0108		88-24-4	163	2,2'-methylene bis(4-ethyl-6-tert-butylphenol)	Additive	2034	1
49	0112		91-08-7	167	2,6-toluene diisocyanate	Monomer or other reactant	2034	2
50	0114		91-97-4	169	3,3'-dimethyl-4,4'-diisocyanato biphenyl	Monomer or other reactant	2034	2
51	0116		93-58-3	171	benzoic acid, methyl ester	Additive or polymer production aid	2034	2
52	0117		93-89-0	172	benzoic acid, ethyl ester	Additive or polymer production aid	2034	2
53	0118		94-13-3	173	4-hydroxybenzoic acid, propyl ester	Additive or polymer production aid	2034	2
54	0121		96-33-3	176	acrylic acid, methyl ester	Monomer or other reactant	2034	1
55	0122		96-49-1	177	ethylene carbonate	Monomer or other reactant	2034	2
56	0123		96-69-5	178	4,4'-thiobis(6-tert-butyl-3-methyl phenol)	Additive	2034	1
57	0126		97-63-2	181	methacrylic acid, ethyl ester	Monomer or other reactant	2034	2
58	0127		97-65-4	182	itaconic acid	Monomer or other reactant Polymer production aid	2034	2
59	0128		97-86-9	183	methacrylic acid, isobutyl ester	Monomer or other reactant	2034	2
60	0129		97-88-1	184	methacrylic acid, butyl ester	Monomer or other reactant	2034	2
61	0130		97-90-5	185	methacrylic acid, diester with ethyleneglycol	Monomer or other reactant	2034	2
62	0131		98-54-4	186	4-tert-butylphenol	Monomer or other reactant	2028	3
63	0134		99-76-3	189	4-hydroxybenzoic acid, methyl ester	Additive or polymer production aid	2034	2
64	0135		99-96-7	190	p-hydroxybenzoic acid	Monomer or other reactant Polymer production aid	2034	2
65	0137		0	192	phthalic acid	Monomer or other reactant Additive	2034	2
66	0138		100-42-5	193	styrene	Monomer or other reactant	2028	3
67	0139		100-51-6	194	benzyl alcohol	Monomer or other reactant Additive Polymer production aid	2034	3

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
68	0140		100-52-7	195	benzaldehyde	Additive or polymer production aid	2034	2
69	0141		100-97-0	196	hexamethylenetetramine	Monomer or other reactant Aid to polymerisation	2034	4
70	0142		101-43-9	197	methacrylic acid, cyclohexyl ester	Monomer or other reactant	2034	2
71	0143		101-68-8	198	diphenylmethane-4,4'-diisocyanate	Monomer or other reactant	2034	2
72	0146		102-09-0	201	diphenyl carbonate	Monomer or other reactant	2034	2
73	0150		103-11-7	206	acrylic acid, 2-ethylhexyl ester	Monomer or other reactant	2034	2
74	0151		103-23-1	207	adipic acid, bis(2-ethylhexyl) ester	Additive	2034	3
75	0161		106-46-7	217	1,4-dichlorobenzene	Monomer or other reactant	2028	2
76	0162		106-63-8	218	acrylic acid, isobutyl ester	Monomer or other reactant	2034	2
77	0163		106-89-8	219	epichlorohydrin	Monomer or other reactant	2028	2
78	0164		106-91-2	220	methacrylic acid, 2,3-epoxypropyl ester	Monomer or other reactant	2028	2
79	0167		106-99-0	223	butadiene	Monomer or other reactant	2028	3
80	0168		107-13-1	225	acrylonitrile	Monomer or other reactant	2028	1
81	0169		107-15-3	226	ethylenediamine	Monomer or other reactant Polymer production aid	2034	2
82	0170		107-21-1	227	ethyleneglycol	Monomer or other reactant	2034	2
83	0173		108-05-4	231	acetic acid, vinyl ester	Monomer or other reactant	2028	1
84	0183		108-95-2	241	phenol	Monomer or other reactant	2028	1
85	0192		110-30-5	250	N,N'-ethylenebisstearamide	Additive Polymer production aid	2034	1
86	0196		110-63-4	254	1,4-butanediol	Monomer or other reactant Additive	2034	2
87	0202		111-40-0	261	diethylenetriamine	Monomer or other reactant	2034	2
88	0203		111-41-1	262	N-(2-aminoethyl)ethanolamine	Additive or polymer production aid	2028	2
89	0204		111-46-6	263	diethyleneglycol	Monomer or other reactant Aid to polymerisation	2034	2
90	0205		111-66-0	264	1-octene	Monomer or other reactant	2034	1
91	0207		112-27-6	266	triethyleneglycol	Monomer or other reactant Additive Other (processing aid)	2034	2
92	0210		112-60-7	269	tetraethyleneglycol	Monomer or other reactant	2034	2
93	0216		115-07-1	275	propylene	Monomer or other reactant	2034	5
94	0217		115-11-7	276	isobutene	Monomer or other reactant	2034	1
95	0222		116-14-3	281	tetrafluoroethylene	Monomer or other reactant	2028	3

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96	0223		116-15-4	282	hexafluoropropylene	Monomer or other reactant	2034	1
97	0226		119-47-1	285	2,2'-methylene bis(4-methyl-6-tert-butylphenol)	Additive	2028	2
98	0233		122-20-3	292	triisopropanolamine	Monomer or other reactant Aid to polymerisation	2034	2
99	0236		123-31-9	295	1,4-dihydroxybenzene	Monomer or other reactant	2028	1
100	0244		124-04-9	303	adipic acid	Monomer or other reactant	2034	2
101	0245		124-07-2	304	caprylic acid	Monomer or other reactant	2037	1
102	0246		124-09-4	305	hexamethylenediamine	Monomer or other reactant	2034	2
103	0247		124-26-5	306	stearamide	Other (processing aid)	2034	1
104	0251		126-30-7	310	2,2-dimethyl-1,3-propanediol (neopentylglycol)	Monomer or other reactant	2034	2
105	0256		128-37-0	315	2,6-di-tert-butyl-p-cresol	Additive Polymer production aid	2034	2
106	0263		140-88-5	323	acrylic acid, ethyl ester	Monomer or other reactant	2034	2
107	0264		141-22-0	324	ricinoleic acid	Monomer or other reactant	2028	2
108	0265		141-32-2	325	acrylic acid, n-butyl ester	Monomer or other reactant	2034	2
109	0275		301-02-0	335	oleamide	Additive Polymer production aid	2028	1
110	0280		461-58-5	340	dicyanodiamide	Monomer or other reactant	2034	1
111	0288		544-63-8	348	myristic acid	Monomer or other reactant Polymer production aid	2028	1
112	0294		584-84-9	354	2,4-toluene diisocyanate	Monomer or other reactant	2034	2
113	0295		585-07-9	355	methacrylic acid, tert-butyl ester	Monomer or other reactant	2034	2
114	0300		629-11-8	361	1,6-hexanediol	Monomer or other reactant	2034	2
115	0303		689-12-3	365	acrylic acid, isopropyl ester	Monomer or other reactant	2028	2
116	0305		693-23-2	367	n-dodecanedioic acid	Monomer or other reactant Other (processing aid)	2034	2
117	0308		760-93-0	370	methacrylic anhydride	Monomer or other reactant	2034	2
118	0309		818-61-1	371	acrylic acid, monoester with ethyleneglycol	Monomer or other reactant	2034	2
119	0310		822-06-0	372	hexamethylene diisocyanate	Monomer or other reactant	2034	2
120	0312		868-77-9	374	methacrylic acid, monoester with ethyleneglycol	Monomer or other reactant	2034	2
121	0314		872-50-4	376	N-methylpyrrolidone	Additive or polymer production aid	2028	2
122	0315		919-30-2	377	3-aminopropyltriethoxysilane	Additive Polymer production aid	2034	3
123	0318		925-60-0	380	acrylic acid, propyl ester	Monomer or other reactant	2028	2
124	0323		999-61-1	385	acrylic acid, 2-hydroxypropyl ester	Monomer or other reactant	2028	2

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125	0331		1302-78-9	393	bentonite	Additive Polymer production aid	2028	2
126	0332		1305-62-0	394	calcium hydroxide	Additive Polymer production aid Aid to polymerisation	2034	4
127	0333		1305-78-8	395	calcium oxide	Additive Aid to polymerisation	2034	4
128	0334		1309-42-8	396	magnesium hydroxide	Additive	2034	3
129	0335		1309-48-4	397	magnesium oxide	Additive Aid to polymerisation	2028	3
130	0336		1309-64-4	398	antimony trioxide	Additive or polymer production aid	2028	1
131	0337		1310-58-3	399	potassium hydroxide	Additive or polymer production aid	2034	2
132	0338		1310-73-2	400	sodium hydroxide	Additive or polymer production aid	2034	2
133	0339		1313-82-2	401	sodium sulfide	Monomer or other reactant	2034	1
134	0340		1314-13-2	402	zinc oxide	Additive Aid to polymerisation	2034	5
135	0346		1332-58-7	410	kaolin	Additive	2028	5
136	0347		1333-86-4	411	carbon black	Additive	2034	6
137	0349		1336-21-6	413	ammonium hydroxide	Additive Polymer production aid	2034	2
138	0353		1343-98-2	417	silicic acid	Monomer or other reactant Additive Polymer production aid	2028	2
139	0354		1344-28-1	418	aluminium oxide	Additive Polymer production aid	2034	4
140	0357		1477-55-0	421	1,3-benzenedimethanamine	Monomer or other reactant	2034	2
141	0361		1663-39-4	425	acrylic acid, tert-butyl ester	Monomer or other reactant	2034	2
142	0362		1675-54-3	426	2,2-bis(4-hydroxyphenyl)propane bis(2,3-epoxypropyl) ether	Monomer or other reactant (resin)	2034	1
143	0364		1709-70-2	428	1,3,5-trimethyl-2,4,6-tris(3,5-di-tert-butyl-4-hydroxybenzyl)benzene	Additive	2034	1
144	0365		1761-71-3	429	bis(4-aminocyclohexyl)methane	Monomer or other reactant	2034	3
145	0369		2082-79-3	433	octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate	Additive Polymer production aid	2034	2
146	0370		2082-81-7	434	methacrylic acid, diester with 1,4-butanediol	Monomer or other reactant	2034	2
147	0373		2156-97-0	437	acrylic acid, dodecyl ester	0	2034	2
148	0374		2162-74-5	438	bis(2,6-diisopropylphenyl) carbodiimide	Monomer or other reactant	2037	2
149	0375		2177-70-0	439	methacrylic acid, phenyl ester	Monomer or other reactant	2034	2
150	0376		2210-28-8	440	methacrylic acid, propyl ester	Monomer or other reactant	2028	2

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151	0377		2315-68-6	441	benzoic acid, propyl ester	Additive or polymer production aid	2028	2
152	0378		2425-79-8	442	1,4-butanediol bis(2,3-epoxypropyl)ether	Monomer or other reactant	2034	2
153	0382		2495-35-4	446	acrylic acid, benzyl ester	Monomer or other reactant	2034	2
154	0383		2495-37-6	447	methacrylic acid, benzyl ester	Monomer or other reactant	2034	2
155	0384		2499-59-4	448	acrylic acid, n-octyl ester	Monomer or other reactant	2028	2
156	0389		2768-02-7	453	vinyltrimethoxysilane	Additive Other (processing aid)	2034	3
157	0390		2855-13-2	454	1-amino-3-aminomethyl-3,5,5-trimethylcyclohexane	Monomer or other reactant	2034	2
158	0391		2867-47-2	455	methacrylic acid, 2-(dimethylamino)-ethyl ester	Monomer or other reactant	2034	2
159	0392		2998-08-5	456	acrylic acid, sec-butyl ester	Monomer or other reactant	2028	2
160	0393		2998-18-7	457	methacrylic acid, sec-butyl ester	Monomer or other reactant	2028	2
161	0399		3290-92-4	463	1,1,1-trimethylolpropane trimethacrylate	Aid to polymerisation	2034	3
162	0400		3293-97-8	464	2-hydroxy-4-n-hexyloxybenzophenone	Additive or polymer production aid	2028	2
163	0402		3648-18-8	466	di-n-octyltin dilaurate	Additive Polymer production aid	2028	2
164	0407		4066-02-8	472	2,2'-methylenebis(4-methyl-6-cyclohexylphenol)	Additive	2034	1
165	0409		4098-71-9	475	1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	Monomer or other reactant	2034	2
166	0410		4128-73-8	476	diphenylether-4,4'-diisocyanate	Monomer or other reactant	2028	2
167	0411		4130-42-1	477	2,6-di-tert-butyl-4-ethylphenol	Polymer production aid Other (processing aid)	2028	2
168	0416		4655-34-9	482	methacrylic acid, isopropyl ester	Monomer or other reactant	2028	2
169	0419		5124-30-1	485	dicyclohexylmethane-4,4'-diisocyanate	Monomer or other reactant	2034	2
170	0423		5873-54-1	490	diphenylmethane-2,4'-diisocyanate	Monomer or other reactant	2034	2
171	0429		6683-19-8	496	pentaerythritol tetrakis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)-propionate]	Additive Polymer production aid	2034	1
172	0440		7664-38-2	509	phosphoric acid	Monomer or other reactant Polymer production aid	2034	2
173	0441		7664-41-7	510	ammonia	Monomer or other reactant Other (processing aid)	2037	2
174	0446		7782-42-5	521	graphite	Additive	2034	2
175	0452		8001-79-4	527	castor oil	Monomer or other reactant (base oil)	2028	2
176	0457		8013-07-8	532	soybean oil, epoxidised	Monomer or other reactant Other (processing aid)	2034	2
177	0458		8015-86-9	533	carnauba wax	Additive Polymer production aid	2028	1

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178	0459		8017-16-1	534	polyphosphoric acids	Monomer or other reactant Additive Polymer production aid	2034	2
179	0474		9002-88-4	549	polyethylene wax	Monomer or other reactant (base oil) Additive Polymer production aid	2034	5
180	0475		9003-07-0	550	polypropylene wax	Polymer production aid	2034	2
181	0498		9006-04-6	574	rubber, natural	Monomer or other reactant Additive	2028	1
182	0500		9044-17-1	577	isobutylene-butene copolymer	Additive or polymer production aid	2037	1
183	0527		13983-17-0	613	wollastonite	Additive or polymer production aid	2028	3
184	0528		14464-46-1	614	crystalite	Additive or polymer production aid	2028	2
185	0529		14807-96-6	615	talca	Additive Polymer production aid	2037	7
186	0530		14808-60-7	616	quartz	Additive Polymer production aid	2034	4
187	0532		15535-79-2	618	di-n-octyltin mercaptoacetate	Aid to polymerisation	2034	2
188	0533		15571-58-1	619	di-n-octyltin bis(2-ethylhexyl mercaptoacetate)	Aid to polymerisation	2028	2
189	0534		15571-60-5	620	di-n-octyltin dimaleate	Additive or polymer production aid	2028	2
190	0535		16219-75-3	621	5-ethylidenebicyclo[2,2,1]hept-2-ene	Monomer or other reactant	2034	1
191	0537		16389-88-1	623	dolomite	Additive or polymer production aid	2028	2
192	0542		21645-51-2	629	aluminium hydroxide	Additive	2034	3
193	0547		24800-44-0	634	tripropylene glycol	Monomer or other reactant	2034	2
194	0550		25322-69-4	639	polypropylene glycol	Monomer or other reactant Aid to polymerisation	2034	2
195	0551		25359-91-5	640	formaldehyde-1-naphthol, copolymer	Additive or polymer production aid	2034	1
196	0563		26747-90-0	653	2,4-toluene diisocyanate dimer	Monomer or other reactant	2034	2
197	0594		37244-96-5	684	nepheline syenite	Additive or polymer production aid	2028	1
198	0617		61790-53-2	707	diatomaceous earth	Additive or polymer production aid	2028	2
199	0622		64147-40-6	712	castor oil, dehydrated	Monomer or other reactant (base oil)	2034	2
200	0659		92704-41-1	753	kaolin, calcined	Additive	2034	5
201	0681		166412-78-8	775	1,2-cyclohexanedicarboxylic acid, diisononyl ester	Additive Polymer production aid	2034	2

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202	0694		2530-85-0	788	[3-(methacryloxy)propyl]trimethoxysilane	Additive Polymer production aid	2034	1
203	0711		68441-17-8	811	polyethylene waxes, oxidised	Additive Polymer production aid	2034	2
204	0745		2416-94-6	882	2,3,6-trimethylphenol	Monomer or other reactant	2034	3
205	0746		4457-71-0	883	3-methyl-1,5-pentanediol	Monomer or other reactant	2034	2
206	0747		91082-17-6	884	alkyl(C10-C21)sulfonic acid, esters with phenol	Additive Polymer production aid	2028	1
207	0763		25618-55-7	1017	polyglycerol	Additive or polymer production aid	2037	2
208	0769		0	1050	zinc oxide, nanoparticles, uncoated	Additive or polymer production aid	2037	3
209	0780		2530-83-8	1068	[3-(2,3-epoxypropoxy)propyl]trimethoxy silane	Monomer or other reactant	2037	1
210	0788		2634-33-5	0	1,2-benzisothiazol-3(2H)-one	Additive Polymer production aid Other (in-can preservative)	2034	1
211	0789		119-53-9	0	benzoin	Polymer production aid	2034	1
212	0793		25085-50-1	0	4-tert-butylphenol formaldehyde resin	Aid to polymerisation	2034	1
213	0801		11118-57-3	0	chromium oxide	Aid to polymerisation	2034	2
214	0803		110-05-4	0	di-tert-butyl peroxide	Aid to polymerisation	2034	1
215	0808		100-41-4	0	ethylbenzene	Polymer production aid	2034	1
216	0815		78-93-3	0	methyl ethyl ketone (butan-2-one)	Polymer production aid	2034	2
217	0816		108-10-1	0	methyl isobutyl ketone (4-methylpentan-2-one)	Polymer production aid	2028	1
218	0825		9002-89-5	0	polyvinyl alcohol	Additive Polymer production aid	2037	1
219	0832		108-88-3	0	toluene	Additive	2034	2
220	0833		101-37-1	0	triallylcyanurate	Aid to polymerisation	2034	3
221	0838		1330-20-7	0	xylene	Polymer production aid	2034	1
222	0844		1760-24-3	0	[3-(2-aminoethyl)aminopropyl]trimethoxysilane	Polymer production aid	2031	1
223	0845		26125-61-1	0	aramid fibres	Additive (polymeric)	2034	1
224	0846		95-33-0	0	benzothiazyl-2-cyclohexylsulfenamide	Aid to polymerisation	2031	3
225	0847		78-63-7	0	2,5-bis(tert-butylperoxy)-2,5-dimethylhexane	Aid to polymerisation	2031	3
226	0848		25155-25-3 {2212-81-9 & 2781-00-2}	0	1,3-(and/or 1,4)-bis(tert-butylperoxyisopropyl)benzene	Aid to polymerisation	2031	1
227	0850		101-67-7	0	bis(4-octylphenyl)amine; (4,4'-dioctyldiphenylamine)	Additive	2028	1
228	0851		39817-09-9	0	bisphenol-F-diglycidylether (BFDGE; bis(hydroxyphenyl) methane bis(2,3-epoxypropyl) ethers)	Monomer or other reactant (resin)	2028	2
229	0853		95-31-8	0	N-tert-butyl-2-benzothiazolesulfenamide	Aid to polymerisation	2031	2

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230	0855		3457-61-2	0	tert-butylcumylperoxide	Aid to polymerisation	2031	1
231	0856		17540-75-9	0	4-sec-butyl-2,6-di-tert-butylphenol	Additive	2031	1
232	0858		2556-36-7	0	1,4-cyclohexanediisocyanate	Monomer or other reactant	2028	2
233	0859		17796-82-6	0	N-(cyclohexylthio)phthalimide	Aid to polymerisation	2031	1
234	0861		68953-84-4	0	N,N'-diaryl-p-phenylenediamine	Additive	2031	1
235	0862		94-36-0	0	dibenzoyl peroxide	Aid to polymerisation	2031	1
236	0863		6731-36-8	0	1,1-di-tert-butylperoxy-3,3,5-trimethylcyclohexane	Aid to polymerisation	2031	2
237	0864		96-76-4	0	2,4-di-tert-butylphenol	Additive	2031	1
238	0865		77-58-7	0	dibutyltin dilaurate	Aid to polymerisation	2028	2
239	0866		133-14-2	0	2,4-dichlorobenzoyl peroxide	Aid to polymerisation	2031	1
240	0867		80-43-3	0	dicumyl peroxide	Aid to polymerisation	2031	3
241	0873		3437-84-1	0	diisobutryl peroxide	Aid to polymerisation	2031	1
242	0874		105-74-8	0	dilauroyl peroxide	Aid to polymerisation	2031	2
243	0878		895-85-2	0	di(4-methyl-benzoyl)peroxide	Aid to polymerisation	2031	1
244	0879		53880-86-7	0	dimethyldiphenylthiuram disulfide	Aid to polymerisation	2028	1
245	0882		70131-67-8	0	dimethylsiloxane, hydroxy terminated	Monomer or other reactant (base oil)	2028	2
246	0884		971-15-3	0	di-N-pentamethylenethiuram hexasulfide	Aid to polymerisation	2031	1
247	0885		120-54-7	0	di-N-pentamethylenethiuram tetrasulfide	Aid to polymerisation	2028	2
248	0886		122-39-4	0	diphenylamine	Aid to polymerisation	2031	1
249	0887		68411-46-1	0	diphenylamine, octylated	Additive	2031	1
250	0888		102-06-7	0	N,N-diphenylguanidine	Aid to polymerisation	2028	1
251	0889		120-78-5	0	dithiobis(2-benzothiazole)	Aid to polymerisation	2031	2
252	0894		17689-77-9	0	ethyltrisacetoxysilane	Aid to polymerisation	2031	1
253	0896		78-27-3	0	ethynylcyclohexanol	Polymer production aid	2031	2
254	0905		2226-96-2	0	4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl	Aid to polymerisation	2031	2
255	0908		7425-80-1	0	isobutyl titanate	Aid to polymerisation	2031	1
256	0910		149-30-4	0	2-mercaptobenzothiazole	Aid to polymerisation	2031	3
257	0911		60-24-2	0	2-mercaptoethanol	Additive	2031	1
258	0918		693-98-1	0	2-methylimidazole	Additive	2028	1
259	0920		34813-62-2	0	2-methylpentane-1,5-diisocyanate	Monomer or other reactant	2028	1
260	0922		4253-34-3	0	methyltrisacetoxysilane	Aid to polymerisation	2031	1
261	0928		51240-95-0	0	neodecaneperoxoic acid, 1,1,3,3-tetramethylbutyl ester	Aid to polymerisation	2031	1
262	0932		8012-95-1 8042-47-5	0	paraffin oil	Additive	2031	4
263	0935		16111-62-9	0	peroxydicarbonic acid, bis(2-ethylhexyl) ester	Aid to polymerisation	2031	1

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264	0941		26748-41-4	0	peroxyneodecanoic acid, tert-butyl ester	Aid to polymerisation	2031	1
265	0944		61788-44-1	0	phenols, styrenated	Additive	2031	2
266	0948		126-73-8	0	phosphoric acid, tributyl ester	Additive Polymer production aid	2028	1
267	0950		54771-30-1	0	phosphorous acid, dinonylphenyl bis(nonylphenyl) ester	Additive	2028	1
268	0954		9003-29-6	0	polybutene	Monomer or other reactant (base oil) Additive Polymer production aid	2034	2
269	0961		9003-27-4	0	polyisobutene	Monomer or other reactant (base oil) Additive (polymeric) for rubber	2037	2
270	0973		68442-68-2	0	styrene, reaction product with diphenylamine	Additive	2031	2
271	0976		10591-85-2	0	tetrabenzylthiuram disulfide	Aid to polymerisation	2031	3
272	0977		5593-70-4	0	tetra-n-butyl titanate	Aid to polymerisation	2031	1
273	0978		97-77-8	0	tetraethylthiuram disulfide	Aid to polymerisation	2031	2
274	0980		3064-73-1	0	tetraisobutylthiuramdisulfide	Additive or polymer production aid	2031	1
275	0982		137-26-8	0	tetramethylthiuram disulfide	Aid to polymerisation	2031	2
276	0983		97-74-5	0	tetramethylthiuram monosulfide	Aid to polymerisation	2031	2
277	0984		26471-62-5	0	toluene diisocyanate	Monomer or other reactant	2031	2
278	0986		93-69-6	0	o-tolylbiguanidine	Aid to polymerisation	2031	1
279	0987		1025-15-6	0	triallyl isocyanurate	Aid to polymerisation	2031	2
280	0989		90-72-2	0	2,4,6-tri(dimethylaminomethyl)phenol	Aid to polymerisation	2031	4
281	0994		14726-36-4	0	zinc dibenzylthiocarbamate	Aid to polymerisation	2031	3
282	0995		136-23-2	0	zinc dibutylthiocarbamate	Aid to polymerisation	2031	3
283	0996		14324-55-1	0	zinc diethylthiocarbamate	Aid to polymerisation	2031	1
284	0997		137-30-4	0	zinc dimethylthiocarbamate	Aid to polymerisation Other (in-can preservative)	2031	1
285	1005		1503-48-6	0	quino [2, 3-b]acridine-6,7,13,14(5H,12H)-tetrone (quinacridinone quinone, QAQ)	Additive	2031	1
286	1029		14666-78-5	0	diethylperoxydicarbonate	Aid to polymerisation	2031	1
287	1044		870-08-6	0	dioctyltin oxide	Aid to polymerisation	2031	1
288	1046		95-71-6	0	2-methylhydroquinone	Aid to polymerisation	2031	1
289	1061		68439-49-6	0	polyethylene glycol (EO=2-6) monoalkyl(C16-C18)ether	Additive Aid to polymerisation	2028	1
290	1069		8001-78-3	0	castor oil, hydrogenated	Monomer or other reactant Additive	2031	2

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
						Polymer production aid		
291	1077		9003-17-2	0	polybutadiene	Additive	2037	2
292	1078		9003-31-0	0	polyisoprene	Additive	2037	1
293	1087		0	0	2,4-diphenylmethane-diisocyanate	Monomer or other reactant	2028	2
294	1088		0	0	2,6-diphenylmethane-diisocyanate	Monomer or other reactant	2028	2
295	1099		0	0	bis-2-tert-butyl-6-(3-tert-butyl-5-methyl-2-hydroxybenzylphenyl) terephthalate	Additive	2028	1
296	1105		0	0	chlorinated paraffin	Additive	2031	1
297	1106		0	0	chlorinated polyethylene	Additive	2037	1
298	1107		0	0	chlorinated rubber	Additive	2028	1
299	1110		68037-39-8	0	chlorosulfonated polyethylene	Additive	2034	1
300	1113		27253-31-2	0	cobalt neodecanoate	Additive	2031	1
301	1123	630-372-5	73728-37-7	0	cyclised rubber	Additive	2028	1
302	1128	248-523-5	27554-26-3	0	di isooctyl phthalate	Additive	2028	1
303	1134	247-977-1	26761-40-0	0	diisodecylphthalate	Additive	2028	1
304	1138			0	dimethylphenylthiuram	Aid to polymerisation	2028	1
305	1140	202-577-6	97-39-2	0	di-o-tolylguanidine	Monomer or other reactant	2031	1
306	1145			0	high, medium and low density polyethylene	Monomer or other reactant	2028	1
307	1196			0	zinc dibutyldithiocarbamate	Aid to polymerisation	2028	1
308	1197			0	copper dibutyldithiocarbamate	Aid to polymerisation	2028	1
309	1199		13681-87-3	0	copper diethyldithiocarbamate	Aid to polymerisation	2028	1
310	1201		137-29-1	0	copper dimethyldithiocarbamate	Aid to polymerisation	2031	1
311	1203			0	zinc ethylphenyldithiocarbamate	Aid to polymerisation	2031	1
312	1204			0	copper ethylphenyldithiocarbamate	Aid to polymerisation	2028	1
313	1205		13878-54-1	0	zinc pentamethylenedithiocarbamate	Aid to polymerisation	2028	1
314	1206			0	copper pentamethylenedithiocarbamate	Aid to polymerisation	2028	1
315	1210	202-387-3	95-05-6	0	tetraethylthiuram monosulfide	Monomer or other reactant Aid to polymerisation	2028	1
316	1223		113693-69-9	0	tetramethyl-bis(4-hydroxyphenyl)methane (TMBPF), reaction product with epichlorohydrin (= TMBPF-diglycidyl ether or TMBPF-DGE)	Monomer or other reactant	2028	1
317	1226		12227-89-3; 1317-61-9	0	C.I. Pigment Black 11 (or: iron oxide black; C.I. No 77499)	Additive	2028	1
318	1229		147-14-8	0	C.I. Pigment Blue 15 (or: phthalocyanine blue (incl. 15:1, 15:2, 15:3, 15:4); C.I. No. 74160)	Additive	2031	1
319	1231		57455-37-5	0	C.I. Pigment Blue 29 (or: ultramarine blue; C.I. No. 77007)	Additive	2028	1
320	1238		1328-53-6	0	C.I. Pigment Green 7 (or: phthalocyanine green; C.I. No. 74260)	Additive	2031	1
321	1240		1309-37-1	0	C.I. Pigment Red 101 (or: iron(III)oxide; C.I. No. 77491)	Additive	2031	1

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
322	1259		36-86-8	0	1,1-bis(tert-butylperoxy)cyclohexane	Aid to polymerisation	2031	1
323	1261		2212-81-9	0	1,3-bis(tert-butylperoxyisopropyl)benzene	Aid to polymerisation	2031	1
324	1262		105-55-5	0	1,3-diethylthiourea	Aid to polymerisation	2031	1
325	1264		102-78-3	0	2-(2,6-dimethylmorpholiniothio) benzothiazole	Aid to polymerisation	2028	1
326	1265		102-77-2	0	2-(morpholiniothio)benzothiazole	Aid to polymerisation	2031	2
327	1266		87-97-8	0	2,6-di-tert-butyl-4-(methoxymethyl)phenol	Additive	2028	1
328	1267		2668-47-5	0	2,6-di-tert-butyl-4-phenylphenol	Additive	2028	1
329	1268		95-30-7	0	2-benzothiazyl-N,N-diethylthiocarbonyl sulfide	Aid to polymerisation	2028	1
330	1269		96-45-7	0	2-mercaptoimidazoline	Aid to polymerisation	2028	1
331	1274		15570-10-2	0	4-tert-butyl-2-methylthiophenol	Additive	2028	1
332	1289		3399-73-3	0	cyclohexylethylamine	Aid to polymerisation	2028	1
333	1304		10591-84-1	0	N,N'-dimethyldiphenylthiuram disulfide	Aid to polymerisation	2031	1
334	1306			0	N-phenyl-N'-isohexyl-p-phenylenediamine	Additive	2028	1
335	1324		93-73-2	0	tetrabutylthiuram monosulfide	Aid to polymerisation	2028	1
336	1351			38	glass fibres	Additive	2031	6
337	1369			68	phosphoric acid, mono- and di-n-alkyl (C16 and C18) esters	Additive or polymer production aid	2031	1
338	1370			69	phosphorous acid, tris(nonyl-and/ or dinonylphenyl) ester	Additive	2031	1
339	1371			73	polyesters of 1,2-propanediol and/ or 1,3- and/or 1,4-butanediol and/ or polypropyleneglycol with adipic acid, which may be end-capped with acetic acid or fatty acids C12-C18 or n-octanol and/or n-decanol	Additive or polymer production aid	2034	1
340	1379		75-56-9	135	propylene oxide	Monomer or other reactant	2028	2
341	1381		107-88-0	228	1,3-butanediol	Monomer or other reactant	2034	2
342	1386		1332-37-2	409	iron oxide	Additive	2031	2
343	1390		7631-86-9	504	silicon dioxide	Additive Polymer production aid	2037	7
344	1392		7704-34-9	514	sulfur	Aid to polymerisation	2034	3
345	1395		9003-11-6 106392-12-5	551	poly(ethylene propylene) glycol	Other (processing aid)	2028	2
346	1396		63148-62-9	575	polydimethylsiloxane (MW > 6 800 Da)	Monomer or other reactant (base oil) Additive Polymer production aid	2034	5
347	1403		13463-67-7	610	titanium dioxide	Additive Polymer production aid	2028	5
348	1404		17194-00-2	625	barium hydroxide	Additive or polymer production aid	2034	2
349	1406		25322-68-3	638	polyethyleneglycol	Monomer or other reactant Additive Polymer	2034	4

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
						production aid Aid to polymerisation		
350	1407		25513-64-8	641	mixture of (35-45 % w/w) 1,6-diamino-2,2,4-trimethylhexane and (55-65 % w/w) 1,6-diamino-2,4,4-trimethylhexane	Monomer or other reactant	2034	2
351	1409		68855-54-9	734	diatomaceous earth, soda ash flux-calcined	Additive or polymer production aid	2034	2
352	1427			1062	mixture composed of 97 % tetraethyl orthosilicate (TEOS) with CAS No. 78-10-4 and 3 % hexamethyldisilazane (HMDS) with CAS No. 999-97-3	Monomer or other reactant	2037	1
353	1432		55965-84-9		5-chloro-2-methyl-2H-isothiazol-3-one (CAS No. 26172-55-4) and 2-methyl-2H-isothiazol-3-one (CAS No. 2682-20-4), mixture (3:1)	Other (in-can preservative)	2034	1
354	1439				addition products of trivinylcyclohexane and alpha, omega-dihydrogen-polyhydrogenmethyl dimethylsiloxanes	Monomer or other reactant	2031	1
355	1441				alkoxysilanes with functional groups, e.g. vinyl, methacryl, amino or glycidyl groups	Polymer production aid	2031	1
356	1449				carbon fibres	Additive	2031	1
357	1451				cyclic organopolysiloxane with methyl groups, alone or n-alkyl (C2-C32)-group	Monomer or other reactant (base oil)	2031	1
358	1461				organopolysiloxanes, containing methyl groups on each silicon atom which can be partially replaced by alkenyl(C2-C32) groups, alkyl (C2-C32) groups, hydroxyl groups, hydrogen, disubstituted alkylamines and/or hydroxylated alkyl groups, acetoxy and/or alkoxy groups and their condensation products with polyethyleneglycol and/or polypropyleneglycol, fluorinated alkyl groups, and phenyl groups	Monomer or other reactant Additive (polymeric)	2031	1
359	1462				organopolysiloxanes, linear and branched, with methyl groups alone and/or n-alkyl(C2-C32)-, and/or phenyl-2-, and/or vinyl-, and/or hydroxyl-, and/or alkoxy(C1-C4)-, and/or hydrogen-, and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)-, and/or hydroxyalkyl(C1-C3)-groups	Monomer or other reactant Additive (polymeric)	2031	2
360	1463				organopolysiloxanes, linear or branched, as mentioned PM/REF No. 69848, but in addition with up to max. 5 % hydrogen and/or alkoxy(C2-C4) and/or carboalkoxyalkyl(-(CH2)2-17-C(O)-O-(CH2)0-17CH3)- and/or hydroxyalkyl(C1-C3) groups attached to the silicon atom	Monomer or other reactant Additive (polymeric)	2031	2
361	1464				organopolysiloxanes, linear or branched and/or cyclic, with methyl groups alone or with n-alkyl(C2-C32), phenyl and/or hydroxyl groups attached to the silicon atom, and their condensation products with polyethylene and/or polypropyleneglycol	Monomer or other reactant Additive (polymeric)	2031	1
362	1465		68083-14-7 73138-88-2 68440-81-3		organopolysiloxanes, linear or branched with methyl- or phenyl groups	Monomer or other reactant (base oil)	2037	1
363	1466		9016-00-6 63148-62-9		organopolysiloxanes, linear or branched with methyl groups	Monomer or other reactant (base oil)	2031	2

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
			68037-74-1					
364	1467				organopolysiloxanes with vinyl groups attached to the silicon atom	Monomer or other reactant Additive (polymeric)	2031	2
365	1470				platinum complexes	Aid to polymerisation	2031	3
366	1474				polydimethyl siloxanes and polydimethyl silicones, 3-aminopropyl-group terminated, polymers with 1-isocyanato-3-isocyanatomethyl-3,5,5-trimethylcyclohexane	Monomer or other reactant Additive (polymeric)	2031	1
367	1475				polydimethyl siloxanes and polydimethyl silicones, 3-aminopropyl-group terminated, polymers with bis(4-isocyanatocyclohexyl)methane	Monomer or other reactant Additive (polymeric)	2031	1
368	1486		25213-24-5		polyvinyl alcohol, manufactured by saponification of polyvinyl acetate, with a degree of saponification $\geq 20\%$	Polymer production aid	2034	1
369	1494		9006-65-9		silicone oils (organopolysiloxanes with methyl and/or phenyl groups)	Monomer or other reactant (base oil) Additive (polymeric)	2031	1
370	1497				titanic acid, esters with isobutanol, n-butanol and the enolate of ethylacetoacetate	Aid to polymerisation	2031	1
371	1498		26780-96-1		2,2,4-trimethyl-1,2-dihydrochinolin (polymerised)	Additive	2031	2
372	1503		1318-02-1		zeolites, natural and synthetic, sodium salts	Additive Aid to polymerisation	2031	1
373	1511		67762-90-7		silicon dioxide, reaction product with polydimethylsiloxane	Additive Polymer production aid	2031	1
374	1514		68611-44-9		silicon dioxide, reaction product with dimethyldichlorosilane	Polymer production aid	2031	1
375	1515		68909-20-6		silicon dioxide, reaction product with hexamethyldisilazane	Polymer production aid	2031	2
376	1517		9003-35-4		phenolformaldehyde resins	Aid to polymerisation	2031	1
377	1542				clays	Additive	2031	1
378	1558				cresols	Monomer or other reactant	2031	1
379	1562				epoxy resins	Other (used in the casting process to produce cast film or moulding)	2031	1
380	1569				ethylene copolymers with propylene	Monomer or other reactant	2031	1
381	1579		63231-60-7		microcrystalline waxes	Additive	2031	2
382	1589				organopolysiloxanes with fluorinated groups	Monomer or other reactant	2031	1
383	1590				organopolysiloxanes with methyl groups	Monomer or other reactant	2031	2
384	1592				organopolysiloxanes with phenyl groups	Monomer or other reactant	2031	1
385	1593				organopolysiloxanes with propylene oxide groups	Monomer or other reactant	2031	1
386	1599				organopolysiloxanes with vinyl groups	Monomer or other reactant	2031	2
387	1604				polyamide resulting from the polymerisation of 1,3,5-benzene tricarbonyl chloride with 1,3-benzene diamine	Monomer or other reactant	2031	1

No.	EUPL No.	EC No.	CAS No.	FCM List No.	Substance (group) name	Technical function	Expiry date	No. of stakeholders
388	1609				silica and hydrated silicas	Additive	2031	2
389	1610				silicone oils	Additive	2031	1
390	1621		63393-89-5		coumarone-indene resins	Additive	2031	1
391	1626		82-74-2		hydrocarbon waxes, paraffin and microcrystalline (hydrogenated)	Additive	2031	1
392	1627				organopolysiloxanes (silicones), with two methyl groups to each silicon atom, molecular weight 13,5-30	Additive or polymer production aid	2031	1
393	1628		8020-83-5		paraffin mineral oils	Additive	2031	1
394	1634				regenerated elastomers	Additive	2031	1
395	1637				siloxanes, with one hydrogen atom and one methyl group to each silicon atom	Monomer or other reactant	2031	1
396	1638				siloxanes, with two methylgroups to each silicon atom and a vinyl group to the terminal silicon atoms	Monomer or other reactant	2031	1

Table A.2 - 43 metallic compositions for which stakeholders responded that they intend to submit applications for.

No.	EUPL No.	Category of metal composition	Accepted metal composition notation(s)	Relevant product groups	Product groups the application will cover.	No. of stakeholders
1	1646	Copper-Zinc alloys	CW501L-DW (CuZn10)	II	B - D	1
2	1647	Copper-Zinc alloys	CW506L-DW (CuZn33)	B - D	B - D	1
3	1648	Copper-Zinc alloys	CW507L-DW (CuZn36)	B - D	B - D	1
4	1649	Copper-Zinc alloys	CW508L-DW (CuZn37)	B - D	B - D	1
5	1650	Copper-Zinc alloys	CW509L-DW (CuZn40)	B - D	B - D	1
6	1651	Copper-Zinc alloys	CW510L-DW (CuZn42)	B - D	B - D	1
7	1652	Copper-Zinc-Aluminium alloys	CuZn42Al	B - D	B - D	1
8	1653	Copper-Zinc-Aluminium-Tin alloys	CuZn35Al1.5Sn	B - D	B - D	1
9	1654	Copper-Zinc-Aluminium-Silicon-Iron alloys	CuZn35AlSiFe	B - D	B - D	1
10	1655	Copper-Zinc-Arsenic alloys	CW707R (CuZn30As)	B - D	B - D	1
11	1656	Copper-Zinc-Arsenic-Aluminium alloys	CuZn35Al-C	B - D	B - D	1
12	1658	Copper-Zinc-Arsenic-Antimony-Aluminium alloys	CC771S (CuZn36AlAsSb)	B - D	B - D	1
13	1659	Copper-Tin-Zinc-Phosphorus-Sulphur alloys	CuSn4Zn2PS	B - D	B - D	1
14	1660	Copper-Zinc-Silicon-Phosphorus alloys	CW724R (CuZn21Si3P)	B - D	B - D	3
15	1661	Copper-Zinc-Silicon-Phosphorus alloys	CC768S (CuZn21Si3P)	B - D	B - D	3
16	1662	Copper-Silicon-Zinc-Manganese-Phosphorus alloys	CC245E (CuSi4Zn4MnP-C)	B - D	B - D	1
17	1663	Copper-Silicon-Zinc-Manganese-Phosphorus alloys	CC246E (CuSi4Zn9MnP-C)	B - D	B - D	1
18	1664	Copper-Silicon-Zinc-Manganese-Phosphorus alloys	CuSi4Zn4MnP	B - D	B - D	1

No.	EUPL No.	Category of metal composition	Accepted metal composition notation(s)	Relevant product groups	Product groups the application will cover.	No. of stakeholders
19	1665	Copper-Silicon-Zinc-Manganese-7Phosphorus alloys	CuSi4Zn9MnP	B - D	B - D	1
20	1666	Copper-Tin-Phosphorus alloys	CW453K (CuSn8)	C - D	C - D	1
21	1667	Copper-Tin-Lead-Phosphorus alloys	CuSn10-C	B - D	B - D	1
22	1670	Coppers	CW024A (Cu-DHP)	A - D	A - D	3
23	1671	Coppers	CW004A (Cu-ETP)	C - D	C - D	3
24	1672	Coppers	CW008A (Cu-OF)	B - D	B - D	3
25	1673	Coppers	CW020A (Cu-PHC)	B - D	A - D	3
26	1674	Coppers	CW021A (Cu-HCP)	B - D	A - D	4
27	1675	Coppers	CW023A (Cu-DLP)	B - D	B - D	3
28	1676	Tinned copper pipes and tinned copper fittings	CW024A (Cu-DHP) with a tin layer of 1 µm thickness	A - D	A - D	1
29	1677	Aluminium	Aluminium	B - C	D	1
30	1678	Steel/Iron	Galvanised steel	A - D	B - D	3
31	1679	Steel/Iron	Carbon steel according to EN 10025 / EN 10213 / EN 10222	Carbon steel with protective layer/coating: A - D. Unprotected carbon steel: C2 - D	B - D	3
32	1680	Steel/Iron	Cast iron according to EN 1561 / EN 1563	C2	C, B	1
33	1681	Steel/Iron	Stainless steels according to EN 10088 and EN 10283	A - D	B - D	4
34	1682	Platings	Electroplating of the outer surface (tin plating applied by a galvanic process)	B - D (by reference to Cu alloys listed elsewhere in the metallic materials EUPL)	D	1
35	1683	Platings	Tin/Nickel platings applied by a galvanic process on the external surface	B - D (by reference to Cu alloys listed elsewhere in the metallic materials EUPL)	D	1
36	1684	Platings	Electrolytic Nickel/Chromium platings	B	B, D	3
37	1687	Passive compositions	Ti1 according to ISO 23515:2022	B - D	B - D	2
38	1688	Passive compositions	Ti2 according to ISO 23515:2022	B - D	B - D	2
39	1689	Passive compositions	Ti3 according to ISO 23515:2022	B - D	B - D	2
40	1690	Passive compositions	Ti4 according to ISO 23515:2022	B - D	B - D	2
41	1693	Copper alloys not elsewhere categorised	Other copper alloys for Product Group D	D	B - D	6
42	1694	Passive compositions	Other passive metallic materials for Product Group D	D	D	1

No.	EUPL No.	Category of metal composition	Accepted metal composition notation(s)	Relevant product groups	Product groups the application will cover.	No. of stakeholders
43	1695	Hard brazing alloys and soft soldering alloys	Hard brazing and soft soldering alloys meeting the maximum concentrations of the specified impurities	B - C taking on account the extension of the final surface that might be exposed to drinking water	B - D	2

Table A.3 - 238 organic constituents that stakeholders intend to submit applications for in the cementitious materials list.

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
1	1696	Abietic acid		Admixtures	Air entraining agent	2
2	1697	Acetic acid		Admixtures, other - concrete, mortar, water proofing membranes		2
3	1701	Anionic, docusate sodium		Other - additive for admixture or organic addition, mortar		1
4	1702	Benzenesulfonic acid 4-C10-C13-sec-alk derivs		Other - may be present in raw materials used		1
5	1703	1,2-Benzisothiazol-3(2H)-one (BIT)	Biocide	Organic additions, admixtures, other - additive for admixture or organic addition; water proofing membranes, mortar; curing compounds, formwork release agents, curing compounds	Biocide	3
6	1706	Biphenyl-2-ol (2-phenylphenol)	Biocide	Admixtures, formwork release agents, curing compounds	Biocide	1
7	1707	2-Brom-2-nitropropan-1,3-diol (Bronopol)	Biocide	Organic additions, other - concrete, mortar, water proofing membranes; curing compounds, formwork release agents	Biocide	1
8	1708	Butyl stearate		Other - may be present via raw materials, formwork release agents		1
9	1709	Calcium formate		Organic additions, admixtures	Accelerator	2
10	1710	Calcium lignosulfonate		Organic additions, admixtures	Plasticising agent	2
11	1711	Calcium stearate		Organic additions, admixtures	Hydrophobic agent	2
12	1712	Capric acid (decanoic acid)		Organic additions		1
13	1713	Caprylic acid (octanoic acid)		Organic additions		1
14	1714	Carboxy methyl cellulose		Organic additions		1
15	1715	Carboxy methyl cellulose, sodium salt		Organic additions		1
16	1716	Cellulose		Organic additions, admixtures	Stabiliser	2
17	1718	Reaction mass of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (CIT/MIT)	Biocide	Organic additions, admixtures, other - concrete, mortar, water proofing membranes, formwork release agents, curing compounds	Biocide	1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
18	1719	Citric acid (anhydrous)		Organic additions, admixtures	Retarder	2
19	1720	Citric acid, monohydrate		Organic additions, admixtures, other - concrete, mortar, water proofing membranes	Retarder	2
20	1721	Coconut diethanolamide (cocamide DEA)		Organic additions		1
21	1724	Dextrin / maltodextrin		Organic additions		1
22	1725	D-glucitol (sorbitol)		Organic additions		1
23	1728	Disodium dodecylethoxylate sulfosuccinate		Admixtures, other - may be present via raw materials		2
24	1730	Ethoxylated tallow amine		Other - may be present via raw materials		1
25	1731	Cellulose, ethyl ether		Organic additions, admixtures	Stabiliser	2
26	1732	(Ethylenedioxy)-dimethanol	Biocide	Admixtures, formwork release agents, curing compounds	Biocide	2
27	1733	Fatty acids, tall oils		Organic additions		1
28	1734	Formaldehyde	Biocide	Other - monomer		1
29	1735	Formic acid		Admixtures	Accelerator	2
30	1736	Hexahydro-1,3,5-tris(hydroxyethyl)-s-triazine (N-formal)	Biocide	Admixtures, formwork release agents		1
31	1737	Cellulose, 2-hydroxyethyl ether		Organic additions, admixtures		2
32	1738	Cellulose, 2-hydroxyethyl methyl ether		Organic additions, admixtures	Stabiliser	2
33	1739	Hydroxy methyl cellulose		Organic additions, admixtures	Stabiliser	2
34	1741	Magnesium lignosulfonate		Admixtures	Plasticising agent	2
35	1743	Methyl carboxy methyl cellulose		Organic additions, admixtures		2
36	1744	Methyl cellulose		Organic additions, admixtures		2
37	1745	Methyl ethyl cellulose		Organic additions, admixtures		2
38	1746	Cellulose, 2-hydroxypropyl methyl ether (HPMC)		Organic additions, admixtures, other - concrete, mortar, water proofing membranes		2
39	1747	2-Methyl-4-isothiazolin-3-one (MIT)	Biocide	Organic additions, other - additive for admixture or organic addition, formwork release agents, admixtures, curing compounds	Biocide	1
40	1748	Naphthalenesulfonic acid, polymer with formaldehyde, calcium salt		Organic additions, admixtures	Plasticising agent	2
41	1749	2-Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt		Organic additions, admixtures	Plasticising agent	2
42	1750	2-N-octyl-4-isothiazolin-3-one (OIT)	Biocide	Organic additions, admixtures, formwork release	Biocide	2

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
				agents, curing compounds		
43	1751	Oleic acid		Organic additions, admixtures	Emulsifier	2
44	1752	O-phenyl-phenate (OPP)	Biocide	Admixtures, formwork release agents, curing compounds	Biocide	1
45	1755	Polycarboxylic acid salt type surfactant		Organic additions, admixtures	Plasticising agent, Polymer	3
46	1758	Polyoxyalkylene alkylether fatty acid		Organic additions		1
47	1759	Polysaccharide, succinoglycan		Organic additions		1
48	1760	Polysaccharide, Welan gum		Organic additions, admixtures		2
49	1761	Potassium oleate		Organic additions		1
50	1762	Potassium sodium tartrate		Organic additions, admixtures, other - concrete, mortar, water proofing membranes	Retarding agent	2
51	1763	Pyridine-2-thiol 1-oxide, sodium salt	Biocide	Admixtures, formwork release agents, curing compounds	Biocide	1
52	1764	Podium acetate		Organic additions		2
53	1767	Sodium formate		Organic additions, admixtures, other - concrete, mortar, water proofing membranes	Accelerating agent	2
54	1768	Sodium glucoheptonate		Organic additions		1
55	1769	Sodium gluconate		Organic additions	Retarding agent	2
56	1771	Sodium n-dodecyl sulfate		Organic additions, other - additive for admixture or organic addition		1
57	1772	Sodium lignosulfonate		Organic additions, admixtures, other - additive for admixture or organic addition	Plasticising agent	2
58	1773	Sodium naphthalene sulfonic acid		Organic additions, other - additive for admixture or organic addition		1
59	1774	Sodium resinate		Organic additions, admixtures		2
60	1775	Starch, edible		Organic additions		1
61	1776	Starch hydroxypropyl ether		Organic additions		1
62	1777	Stearic acid		Organic additions		1
63	1778	Sucrose		Organic additions, admixtures	Retarding agent	2
64	1779	Sulfite liquors (calcium lignosulfonate)		Organic additions		1
65	1780	Sulphuric acid, mono-C12-C14-alkyl esters, sodium salts		Organic additions, admixtures	Air entraining agent	2
66	1781	Sulphurous acid, monosodium salt, polymer with formaldehyde and 1,3,5-Triazine-2,4,6-triamine		Organic additions, admixtures	Superplasticizer	1
67	1785	Tall oil, sodium salt		Organic additions		1
68	1786	Tallow oleine		Organic additions		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
69	1788	2,4,7,9-Tetramethyl-5-decyne-4,7-diol, ethoxylated		Admixtures	Defoamer	2
70	1789	Triisobutyl phosphate		Organic additions, admixtures, other	Defoamer/additive for admixture or organic addition	2
71	1791	Triethoxyoctylsilane		Organic additions		1
72	1793	Ethane-1,2-diol		Other - concrete, mortar, water proofing membranes		1
73	1794	Xanthan gum		Organic additions		1
74	1796	Diethylene glycol		Admixtures	Viscosity reducer	2
75	1798	2-Aminoethanol		Other - concrete, mortar, water proofing membranes		1
76	1800	Polypropylene glycol		Admixtures	Defoamer	1
77	1801	Reaction mass of 5-chloro-2-methyl-1,2-thiazol-3(2H)-one and 2-methyl-1,2-thiazol-3(2H)-one (3:1) (CIT/MIT)	Biocide	Organic additions, other - additive for admixture or organic addition, admixtures, formwork release agents, curing compounds	Biocide	2
78	1802	Glycerol		Organic additions		1
79	1803	Urea		Organic additions, other - monomer; concrete, mortar, water proofing membranes		1
80	1804	Tartaric acid		Organic additions, admixtures	retarding agent	2
81	1805	Polyvinyl alcohol		Organic additions, other - concrete, mortar, water proofing membranes		1
82	1806	2,4,6-Triamine-1,3,5-triazine		Other - monomer		1
83	1807	Tributyl phosphate	Defoamer	Organic additions		1
84	1809	Oxalic acid		Organic additions		1
85	1810	Edetic acid (EDTA)		Other - concrete, mortar, water proofing membranes		1
86	1814	Polyacrylic acid		Organic additions		1
87	1816	Styrene		Other - monomer		1
88	1817	Tert-decanoic acid, ethenyl ester, polymer with ethene, ethenyl acetate and methyl 2-methyl-2-propenoate		Other - concrete, mortar, water proofing membranes		1
89	1820	2-Ethylhexyl acrylate		Other - monomer		1
90	1821	Mercaptoethanol		Admixtures	Chain transfer agent	2
91	1822	2-Ethyl-1-hexanol		Other - concrete, mortar, water proofing membranes		1
92	1825	Butadiene		Other - monomer		1
93	1826	Acrylonitrile		Other - monomer		1
94	1827	Mercaptopropionic acid		Admixtures	Chain transfer agent	2
95	1828	Acetic acid, vinyl ester				1
96	1829	Maleic anhydride		Organic additions, admixtures, other -	Plasticising agent	2

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
				monomer for PCE polymers		
97	1830	Maleic acid		Organic additions, admixtures, other - monomer for PCE polymers	Plasticising agent	2
98	1832	1,1'-Iminodipropan-2-ol		Admixtures		1
99	1833	Methyl laurate		Organic additions		1
100	1834	2-(2-Ethoxyethoxy)ethanol		Admixtures - surfactant		1
101	1838	Octadecan-1-ol		Other - monomer		1
102	1839	6,6'-Di-tert-butyl-2,2'-methylenedi-p-cresol		Other - additive for admixture or organic addition		1
103	1841	Hydroquinone		Admixtures	Additive	2
104	1842	Diutan gum		Organic additions, admixtures	Rheology modifier	1
105	1844	2,4,7,9-Tetramethyldec-5-in-4,7-diol		Other - concrete, mortar, water proofing membranes		1
106	1845	2,6-Di-tert-butyl-p-cresol		Other - additive for admixture or organic addition		1
107	1849	Butyl acrylate		Admixtures, other - monomer for PCE polymers; concrete, water proofing membrane	Plasticising agent	2
108	1850	Ethyl acetate		Other - concrete, mortar, water proofing membranes		1
109	1853	9-Octadecenoic acid (9Z)-, sodium salt (1:1)	Additive for formwork release agents	Admixtures, formwork release agents	Air entraining agent; emulsifier	2
110	1855	Poly(oxy-1,2-ethanediyl), .alpha.-sulfo-.omega.-(isotridecyloxy)-, sodium salt (1:1)		Other - concrete, mortar, water proofing membranes		1
111	1856	Hydroquinone methylether		Admixtures	Inhibitor	2
112	1861	Vinyl laurate (dodecanoic acid, ethenyl ester)		Other - concrete, mortar, water proofing membranes		1
113	1862	Butanedioic acid, sulfo-, 1,4-bis(1,3-dimethylbutyl) ester, sodium salt		Other		1
114	1865	Acetic acid ethenyl ester, polymer with ethene		Organic additions, other - concrete, mortar, water proofing membranes		1
115	1867	Hydroxypropyl acrylate		Admixtures, other - monomer for PCE polymers	Plasticising agent	2
116	1868	5-Chloro-2-methyl-2H-isothiazol-3-one	Biocide	Admixtures, formwork release agents, curing compounds	Biocide	1
117	1869	Poly(vinyl alcohol-co-ethylene)		Organic additions		1
118	1870	2-Ethylhexyl oleate		Organic additions		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
119	1871	2-propenoic acid, 2-methyl-, monoester with 1,2-propanediol		Other - monomer		1
120	1872	Octanoic acid, compound with 2-aminoethanol (1:1)	Additive for formwork release agents	Formwork release agents	Emulsifier	1
121	1873	Acetic acid, 2-hydroxy-2sulfo-, sodium salt (1:2)		Other - additive for admixture or organic addition		1
122	1875	Hexadecan-1-ol		Other - monomer		1
123	1879	Ascorbic acid		Organic additions, admixtures	Reducing agent	2
124	1881	2-Methyl-2-propen-1-ol		Admixtures, other - Impurity/monomer		2
125	1882	Oxirane, methyl-, polymer with oxirane, octadecanoate		Other - additive for admixture or organic addition		1
126	1883	Dodecanoic acid, ethenyl ester, polymer with chloroethene and ethene		Other - concrete, mortar, water proofing membranes		1
127	1887	Decamethylcyclopentasiloxane		Other - concrete, mortar, water proofing membranes		1
128	1890	Octamethylcyclotetrasiloxane		Other - concrete, mortar, water proofing membranes		1
129	1891	Zinc distearate	Water repellent	Organic additions		1
130	1896	Tert-decanoic acid, ethenyl ester, polymer with ethene and ethenyl acetate		Other - concrete, mortar, water proofing membranes		1
131	1897	Ethanol		Other - concrete, mortar, water proofing membranes		1
132	1898	Distillates (petroleum), hydrotreated light		Organic additions, formwork release agents	Solvent, base oil	1
133	1899	Naphtha (petroleum), hydrotreated heavy; low boiling point hydrogen treated naphtha		Organic additions, formwork release agents	Solvent, base oil	1
134	1900	Solvent naphtha (petroleum), light arom.		Formwork release agents	Solvent, base oil	1
135	1901	Rosin, fumarated		Organic additions		1
136	1903	Methanol		Other - monomer, admixtures	Raw material	2
137	1904	2-Propanol		Admixtures, other - concrete, mortar, , water proofing membranes	Solvent	2
138	1905	Benzenamine, N-phenyl-, styrenated		Other - additive for admixture or organic addition		1
139	1906	Isotridecanol, ethoxylated		Other - additive for admixture or organic addition		1
140	1907	1-Butanol		Other - concrete, mortar, water proofing membranes		1
141	1909	Ethene		Other - concrete, mortar, water		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
				proofing membranes		
142	1910	Ethylene oxide		Admixtures, other - monomer	Raw material	3
143	1911	Tert-butyl hydroperoxide (TBHP)		Admixtures, other - initiator for PCE Polymers	Plasticising agent	2
144	1914	Acrylamide		Admixtures, other - monomer; concrete, mortar, water proofing membranes	Colour	1
145	1915	Acrylic acid		Admixtures, other - monomer for PCE polymers	Plasticising agent	3
146	1916	Methacrylamide		Other - monomer		1
147	1917	Methacrylic acid		Admixtures, other - monomer for PCE polymers	Plasticising agent	3
148	1919	Carnauba wax		Organic additions		1
149	1921	Caramel (color)		Admixtures	Colour	1
150	1922	White mineral oil (petroleum)		Organic additions, other - concrete, mortar, water proofing membranes, formwork release agents	Base oil	1
151	1923	Methacrylic acid, methyl ester		Other - additive for admixture or organic addition; Concrete, water proofing membranes		1
152	1924	Acrylic acid, monoester with ethyleneglycol		Admixtures, other - monomer for PCE polymers; concrete, water proofing membranes		2
153	1925	Poly(oxy-1,2-ethanediyl), a,a'-(2,2-dimethyl-1,3-propanediyl)bis[ω-hydroxy-		Other - monomer		1
154	1926	Sodium tartrate		Organic additions		1
155	1928	Acetic acid ethenyl ester, homopolymer		Organic additions, other - concrete, mortar, water proofing membranes		1
156	1929	Polyvinylpyrrolidone		Organic additions, concrete, mortar, water proofing membranes		1
157	1930	Cellulose, ethyl 2-hydroxyethyl ether		Organic additions, monomer for PCE polymers		1
158	1932	Poly(oxy-1,2-ethanediyl), α-methyl-ω-hydroxy-		Admixtures, other - monomer for PCE polymers	Plasticising agent	2
159	1933	Sodium lauryl ether sulfate		Organic additions, admixtures, other - additive for admixture or organic addition		3
160	1936	Cellulose, 2-sulfoethyl ether		Organic additions		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
161	1941	Acrylic acid, methyl ester		Admixtures, other - monomer for PCE polymers	Plasticising agent	3
162	1943	2-Hydroxypropyl acrylate		Admixtures, other - monomer for PCE polymers	Plasticising agent	2
163	1944	Acetic acid ethenyl ester, polymer with ethene, sodium 2-methyl-2-[(1-oxo-2-propen-1-yl)amino]-1-propanesulfonate and ethenyl tert-decanoate		Organic additions, other - concrete, mortar, water proofing membranes		1
164	1946	Fatty alcohol ethoxylate		Organic additions		1
165	1947	Polyethylenglycol ether (EO = 1-50) of linear and branched primary alcohols		Organic additions, admixtures	Defoamer	1
166	1948	Vinyl ether of monohydric aliphatic saturated alcohols with chain length C1-C18		Other - monomer		1
167	1950	Alcohols, C6-C12, ethoxylated		Other - may be present via raw materials		1
168	1951	Alcohols, C12-C14, ethoxylated		Other - may be present via raw materials		1
169	1952	Alcohols, C12-C16, ethoxylated		Admixtures, may be present via raw materials		2
170	1953	Alcohols, C9-C11 ethoxylated sulfates, sodium salts		Other - may be present via raw materials		1
171	1954	Alcohols, C10-C16, ethoxylated, sulfates, sodium salts		Other - additive for admixture or organic addition		1
172	1955	Alcohols, C12-C14, ethoxylated, sulfates, sodium salts		Admixtures, other - additive for admixture or organic addition	Air entraining agent	2
173	1956	Alcohols, C12-C14, secondary		Other - may be present via raw materials		1
174	1957	Alcohols, C12-C14, secondary ethoxylated		Other - may be present via raw materials		1
175	1958	Alkene (sulfonic acid, C14-C16-alkane hydroxy & C14-C16-alkene sodium salts)		Admixtures, other - may be present via raw materials	Air entraining agent	2
176	1959	Alkyl aryl sulfonate (sodium dodecylbenzenesulfonate)		Other - may be present via raw materials		1
177	1960	Alkyl benzene sulfonate, sodium (mono C10-C14-alkyl derivatives sodium)		Other - may be present via raw materials		1
178	1961	Alkyl dimethylamine oxide		Other - may be present via raw materials		1
179	1962	Alkyl sulfate, sodium (mono C10-C16-alkyl esters)		Other - may be present via raw materials		1
180	1963	Alkylaryl sulfonate (benzenesulfonic acid,		Other - may be present via raw materials		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
		C10-C13 derivs, sodium)				
181	1965	Aluminium formate		Organic additions		1
182	1966	Amines, coco alkyl dimethyl, N-oxides		Other - may be present via raw materials		1
183	1968	Butanedioic acid, sulfo-, C-(2-coco amidoethyl) esters, disodium salts		Other - may be present via raw materials		1
184	1969	Coconut diethanolamide (coco N,N-bis hydroxyethyl)		Other - may be present via raw materials		1
185	1970	N-coco sulfosuccinamate, disodium (butanoic acid, 4-amino-4-oxy-2-sulfo-, N-coco alkyl derivs)		Other - may be present via raw materials		1
186	1971	Dimethyl siloxane reaction products with silica		Admixtures		1
187	1972	Fatty acids, C16-C18 (stearic acid)		Other - may be present via raw materials		2
188	1973	Fatty acids, coco, reaction products with ethanolamine, ethoxylated		Other - may be present via raw materials		1
189	1974	Glucose		Organic additions, admixtures	Retarding agent	2
190	1976	Naphthalenesulfonic acids, reaction products with formaldehyde, sodium salts		Organic additions, admixtures	Plasticising agent	2
191	1979	Resin acids and rosin acids		Organic additions, admixtures	Air entraining agent	2
192	1980	Rosin		Organic additions	Air entraining agent	2
193	1981	Sodium dodecyl to pentadecyl ether sulfonates		Organic additions		1
194	1982	Polyethylene glycol		Organic additions		1
195	1983	Propane-1,2-diol (1,2 propylene glycol)			Other - concrete, water proofing membranes	1
196	1984	Propylene oxide		Other - monomer		1
197	1985	Glyoxal		Other - may be present via raw materials		1
198	1986	Fatty acids, C8-C18 and C18-unsatd., reaction products with Diethanolamine and propylene oxide	Additive for formwork release agents	Other - may be present via raw materials, emulsifier, formwork release agents	Emulsifier	1
199	1987	Alcohols, C9-C11, ethoxylated propoxylated		Other - may be present via raw materials		1
200	1988	Alcohols, C9-C11-branched, ethoxylated propoxylated		Other - may be present via raw materials		1
201	1989	Alcohols, C9-C11-branched, ethoxylated		Other - may be present via raw materials		1
202	1990	Acetic acid ethenyl ester, polymer with		Organic additions		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
		chloroethene and ethene				
203	1991	Acetic acid ethenyl ester, polymer with ethenol		Organic additions, other - concrete, mortar, water proofing membranes		1
204	1992	1,1'-oxydi-2-propanol, mixture of isomers		Other - concrete, mortar, water proofing membranes		1
205	1994	Polydimethylsiloxane	Defoamer	Organic additions, admixtures (2), formwork release agents (1)	Defoamer	2
206	1995	Distillates (petroleum), hydrotreated heavy naphthenic; base oil — unspecified		Organic additions, formwork release agents, base oil		1
207	1996	Distillates (petroleum), hydrotreated light naphthenic; base oil — unspecified		Organic additions, formwork release agents, base oil		1
208	1997	Distillates (petroleum), hydrotreated light paraffinic		Organic additions, formwork release agents, curing compounds, base oil		1
209	1998	Distillates (petroleum), solvent-dewaxed light paraffinic; base oil — unspecified		Organic additions, formwork release agents, base oil		1
210	1999	Alcohol, C10-C14, ethoxylated		Organic additions		1
211	2000	Fatty acid, C12-C18		Organic additions		1
212	2001	Fatty acid, C16-C18 and C18-unsaturated	Additive for formwork release agents	Organic additions, formwork release agents, emulsifier		1
213	2002	Fatty acids, C8-C18 and C18-unsaturated	Additive for formwork release agents	Organic additions, formwork release agents, emulsifier		1
214	2003	Glycerides, C12-C18 (triglycerides C12-C18 (even numbered))	Additive for formwork release agents	Organic additions, formwork release agents, base oil		1
215	2004	Alcohols, C12-C15, ethoxylated		Other - may be present via raw materials		1
216	2005	Alcohols, C11-C15-secondary, ethoxylated		Other - may be present via raw materials		1
217	2006	Alcohols, C10-C12, ethoxylated propoxylated		Other - may be present via raw materials		1
218	2007	Alcohols, C9-C11, ethoxylated		Other - may be present via raw materials		1
219	2008	Polyethyleneglycol (EO = 1-50) ethers of linear and branched primary (C8-C22) alcohols			Organic additions	1
220	2009	Molasses	Set retarder	Admixtures		2
221	2012	Silane, dichlorodimethyl-, reaction products with silica			Other - may be present via raw materials	1
222	2013	Alcohols, C16-C18 and C18-unsatd., ethoxylated		Other - may be present via raw materials		1

No.	EUPL No.	Substance (group) name	Technical function	Constituent category/ies that the application will cover	Assumed technical function of the organic cementitious constituent	No. of stakeholders
223	2014	Poly(oxy-1,2-ethanediyl), α -(3-carboxy-1-oxosulfopropyl)- ω -hydroxy-, C10-C12-alkyl ethers, disodium salts		Other - concrete, mortar, water proofing membranes		1
224	2015	Alcohols, C8-C18, ethoxylated propoxylated		Admixtures	Defoamer	2
225	2016	Alcohols, C12-C18, ethoxylated propoxylated		Admixtures, may be present via raw materials	Defoamer	2
226	2017	Alcohols, tallow, propoxylated		Other - additive for admixture or organic addition		1
227	2018	Ethanol, 2,2'-iminobis-, N-C12-C18-alkyl derivs.	Additive for formwork release agents	Other, formwork release agents	Emulsifier	1
228	2019	Alcohols, C11-C14-iso-, C13-rich, ethoxylated		Other - additive for admixture or organic addition, may be present via raw materials		1
229	2020	Paraffin waxes and hydrocarbon waxes		Organic additions		2
230	2021	Resin acid		Organic additions, admixtures	Air entraining agent	2
231	2022	Rapeseed oil methyl ester		Other - may be present via raw materials		1
232	2023	N,N-bis(2-hydroxyethyl)oleamide	Additive for formwork release agents	Formwork release agents	Emulsifier	1
233	2024	Alcohols, C9-C16, ethoxylated		Organic additions		1
234	2025	Fatty acid polyglycol esters		Other - additive for admixture or organic addition		1
235	2026	Methallylsulfonic acid, salts		Other - monomer		1
236	2027	Polycarboxylate ether made of acrylic acid (CAS No. 79-10-7) and poly(oxy-1,2-ethanediyl), α -[4-(ethenyl)oxy]butyl]- ω -hydroxy- (CAS No. 126682-74-4) and poly(oxy-1,2-ethanediyl), α -(3-methyl-3-buten-1-yl)- ω -hydroxy- (CAS No. 110412-77-6), hydroxypropylacrylate (CAS No. 25584-83-2) and polyethylene glycol monomethallylether (CAS No. 31497-33-3)		Organic additions, admixtures	Plasticising agent	2
237	2028	Melamine sulfonates		Organic additions		1
238	2029	Naphthalene sulphonates		Organic additions, additive for admixture or organic addition		1

Table A.4 – 11 inorganic compositions that stakeholders intend to submit applications for in the inorganic materials list.

No.	EUPL No.	Material category	Accepted composition	No. of stakeholders
1	2031	Enamel	Enamel	4
2	2041	Ceramics	Graphites	2
3	2043	Ceramics	Carbon fibres	2
4	2044	Other inorganic materials	Mixed metal oxides (MMO) coatings of iridium oxide and tantalum oxide	2
5	2032	Enamel	Borosilicate glass	1
6	2034	Ceramics	Al ₂ O ₃ and SiO ₂ ceramics	1
7	2035	Ceramics	ZrO ₂ ceramics	1
8	2036	Ceramics	Hard ferrite ceramics	1
9	2037	Ceramics	Silicon carbide (SiC) ceramics	1
10	2038	Ceramics	Silicon carbide with free carbon (SISIC-C) ceramics	1
11	2042	Ceramics	Amorphous carbon layer	1

Appendix B

Additional entries identified

Table B.1 - Additional starting substances for organic materials identified by stakeholders as missing from the EUPL. Ion exchange resins are listed separately in the second part of this table.

No.	Name	EC no.	CAS no.	Material categories	Technical function
1	(2-Ethylhexyl)phosphate		1070-03-7	Silicone	Additive
2	(3-Aminopropyl)silanetriol		58160-99-9	All	Monomer/Additive
3	(3-Chloropropyl)dimethoxymethylsilane	242-056-0	18171-19-2	Coatings/adhesives	Additive
4	(Triethoxysilyl)methylmethacrylate		5577-72-0	All	Monomer/Additive
5	(Versatic acid) monoglycidylester	247-979-2	26761-45-5	Coatings/adhesives	Binder
6	[3(2,3epoxypropoxy)propyl]triethoxysilane		2602-34-8	All	Monomer/Additive
7	[N,N,N',N'',N''',N''''-hexaethyl-29H,31Hphthalocyaninetrिमethylaminato(2-)-N29,N30,N31,N32]copper/ Pigment Blue 15:6	249-125-4	28654-73-1	Coatings/adhesives	Pigment
8	1,1'-(1,3-phenylene)bis-1H-pyrrole-2,5-dione	221-112-8	3006-93-7	Bonding agent (not in direct contact with drinking water)	Not known
9	1,1,3,3-Tetramethylbutyl hydroperoxide		5809-08-5	Plastics	Aid to polymerisation
10	1,1,3,3-Tetramethylbutyl peroxy-2-ethylhexanoate		22288-43-3	Plastics	Aid to polymerisation
11	1,1'-(P-Tolylimino)dipropan-2-ol)	254-075-1	38668-48-3	Glue/sealant	Present in product used by us
12	1,1'-Azobis(cyclohexanecarbonitrile) / 1,1'-Azodi(hexahydrobenzonitrile)		2094-98-6	Ion exchange resins / plastics	Polymer production aid / Aid to polymerisation
13	1,1-Di(tert-amylperoxy)cyclohexane		15667-10-4	Plastics	Aid to polymerisation
14	1,1-Di(tert-butylperoxy)cyclohexane		3006-86-8	Plastics	Aid to polymerisation
15	1,2,4,5,7,8-Hexoxonane, 3,6,9-trimethyl-, 3,6,9-tris (Et and Pr) derivs		1613243-54-1	Plastics	Aid to polymerisation
16	1,2,4-Trimethylbenzene	202-436-9	95-63-6	Coatings	Additive
17	1,2-Benzisothiazol-3(2H)-one		2634-33-5	Coatings, Adhesives, Plastics	Additive / Polymer production aid / Other (in-can preservative)
18	1,2-Bis(triethoxysilyl)ethane		16068-37-4	All	Monomer/Additive
19	1,2-Dichlorobenzene	202-425-9	95-50-1	Coatings	Additive
20	1,4-Dioxane	204-661-8	123-91-1	Coatings, Adhesives, Plastics	Impurity, Degradation product
21	1,6-Hexanediol diglycidylether	240-260-4	933999-84-9	Coatings/adhesives	Binder
22	1,6-Hexanediyl bismethacrylate		6606-59-3	All	Monomer/Crosslinker
23	1H-Imidazole-1-ethanol, 2-(8-heptadecenyl)-4,5-dihydro-	202-414-9	95-38-5	Lubricant	Additive, production aid
24	1-Methyl-1-phenylethyl peroxyneodecanoate/ Cumyl peroxyneodecanoate	247-956-7	26748-47-0	Plastics	Aid to polymerisation (initiator) / Aid to polymerisation
25	1-Methylimidazole		616-47-7	Coating	Monomer or other reactant/ Additive
26	1-Methyltrimethylene dimethacrylate		1189-08-8	All	Monomer/Crosslinker

No.	Name	EC no.	CAS no.	Material categories	Technical function
27	2,2,4-Trimethyl-1,3-pentandiol-mono-isobutyrat	246-771-9	25265-77-4	Coatings, Adhesives, Plastics	Additive
28	2,2'-Ethylenedioxydiethyl dimethacrylate		109-16-0	All	Monomer/Crosslinker
29	2,5-Dimethyl-2,5-di(2-ethylhexanoylperoxy)hexane		13052-09-0	Plastics	Aid to polymerisation
30	2-Brom-2-nitropropan-1,3-diol (Bronopol)	200-143-0	52-51-7	Coatings, Adhesives, Plastics	Other (in-can preservative)
31	2-Ethylhexyl mercaptoacetate		7659-86-1	All	Aid to polymerisation
32	2-Methoxy-1-methylethyl acetate	203-603-9	108-65-6	Coatings	Additive
33	2-Methoxy-1-Propanol Acetate	274-724-2	70657-70-4	Coatings	Additive
34	2-Methylbutin-3-ol-2		<u>115-19-5</u>	Silicone	Additive
35	2-Pentandione, O,O',O''-(methylsilyldiyl)trioxime		37859-55-5	Silicones	Additive, monomer and other reactant
36	2-Pentanone, O,O',O''-(ethenylsilyldiyl)trioxime		58190-62-8	Silicones	Additive, monomer and other reactant
37	2-Propenoic acid, 2-methyl-, C12-15-branched and linear alkyl esters	90552-02-6		All	Monomer
38	3-(2-Aminoethylamino)propyltriethoxysilane		5089-72-5	Silicones	Additive, monomer and other reactant
39	3-(Diethoxymethylsilyl)propylamine		3179-76-8	All	Monomer/Additive
40	3,3,5,7,7-Pentamethyl-1,2,4-trioxepane		215877-64-8	plastics	Aid to polymerisation
41	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	220-666-8	2855-13-2	Coatings/adhesives	Binder
42	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated		128446-60-6	Silicones	Additive, monomer and other reactant
43	3-Bromo-2-(bromomethyl)propionic acid	-	041459-41-1	Superplasticizer	Raw material
44	3-Hydroxy-1,1-dimethylbutyl peroxyneodecanoate	413-910-1	95718-78-8	Plastics	Aid to polymerisation
45	3-Timethoxysilylpropane-1-thiole		4420-74-0	All	Monomer/Additive
46	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane /Bisphenol A-epichlorohydrin polymer	500-033-5	25068-38-6	Grout(?), sealant, injection in to concrete /Coatings	Present in product used by us / Resin
47	4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 2-methylimidazole	500-181-0	68002-42-6	Coatings	Monomer or other reactant
48	4,4'-Methylenediphenyl diisocyanate	202-966-0	101-68-8	Coatings/adhesives	Binder
49	4-Methylpentan-2-ol / Methyl amyl alcohol	203-551-7	108-11-2	Coatings, Adhesives, Plastics / Ion exchange resins	Impurity / Polymer production aid
50	5-hydroxy-2,5-dimethylhexan-2-yl 2ethylhexaneperoxoate			plastics	Aid to polymerisation
51	6-Tert-Butyl-2,4-xylene		1879-09-0	All	Aid to polymerisation
52	Acetic acid methyl ester / Methyl Acetate	201-185-2	79-20-9	Coatings, Adhesives, Plastics / Plastics, Ion exchange resins	Impurity, Degradation product / Polymer production aid (solvent)
53	Acetic acid, 2-ethylhexyl ester	203-079-1	103-09-3	Coatings, Adhesives, Plastics	Impurity, side product
54	Acetic acid, propyl ester		109-60-4	All	Production aid, solvent
55	Alcohols, C11-15-secondary, ethoxylated	614-295-4	68131-40-8	Various categories	Production aid
56	Alcohols, C12-14-secondary, ethoxylated	not applicable	84133-50-6	Various categories	Production aid
57	Alcohols, C12-16		68855-56-1	All	Starting substance
58	Alcohols, C12-16 ethoxylated		68551-12-2	Silicone	Additive
59	Alkyl Glycidyl Ether	241-536-7	17557-23-2	Coatings	Additive
60	Aluminium-Magnesium-Zinc- Carbonate-Hydroxide-(Hydrate)	423-570-6	169314-88-9	Plastics	Additive
61	Aluminum phosphate	232-056-9	7784-30-7	Coatings	Additive

No.	Name	EC no.	CAS no.	Material categories	Technical function
62	Aluminum sulfate, Al ₂ (SO ₄) ₃	233-329-5	10043-01-3	Rubbers	Coagulant
63	Amide wax	907-495-0		Coatings/adhesives	Additive
64	Amines, C11-14-branched alkyl, monohexyl and dihexyl phosphates	279-632-6	80939-62-4	lubricant	Additive, production aid
65	Amino Silane (Evonik Dynasylan 1146)		Not available	Silicone	Additive
66	Aminoethylaminopropyl- trimethoxysilan		1760-24-3	Silicone	Additive
67	Ammonium chloride	235-186-4	12125-02-9	Plastics	polymer production aid (salt, buffer)
68	Ammonium Citrate	221-146-3	3012-65-5	Plastics	Adhesion preventor
69	Ammonium peroxodisulphate	231-786-5	007727-54-0	Superplasticizer	Raw material
70	Amorphous silica / Fumed Amorphous Silica / Silicium dioxide		112945-52-5	Coatings/adhesives / Coatings / Silicone	Filler / Additive
71	Aqueous oligomeric aminoalkylfunctional silane hydrolysate	68400-07-7		All	Additive
72	Barium sulfate	231-784-4	7727-43-7	Coatings/adhesives, Rubbers, Plastics	Filling agent, Additive, Tracer used in very low amount in some grades to identify the product.
73	Benzamide, 2,2'-dithiobis(N-methyl-	219-768-5	2527-58-4	Various categories	Production aid
74	Benzene	200-753-7	71-43-2	Coatings	Additive
75	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts	270-115-0	68411-30-3	Plastics	Polymer production aid (emulsifier)
76	Bis(dimethylamino)methylphenol	275-162-0	71074-89-0	Coatings	Additive
77	Bis(isopropyl)naphthalene	254-052-6	38640-62-9	Grout(?), sealant, injection in to concrete	Present in product used by us
78	Bis(triethoxysilylpropyl)amine		13497-18-2	All	Monomer/Additive
79	Bis(trimethoxysilylpropyl)amine		82985-35-1	All	Monomer/Additive
80	Butanedioic acid, 2-sulfo-, sodium salt (1:3)	236-524-3	13419-59-5	Coatings, Adhesives, Plastics	Additive or polymer production aid
81	Butyl		9010-85-9		Elastomer
82	Butyl 4,4-di(tert-butylperoxy)valerate		995-33-5	Plastics	Aid to polymerisation
83	Butylacrylamide	not applicable	107-58-4	Various categories	Monomer or other reactant
84	Butylene oxide	203-438-2	106-88-7	Various categories	Monomer or other reactant
85	C.I. Pigment Red 122	213-561-3	980-26-7	Coatings	Pigment
86	C7-9-(branched)-alkyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propanoate	125643-61-0		All	Additive, Polymer production aid
87	Calcium carbonate (natural) treated with natural fatty acid	Not applicable	Not applicable	Various categories	Additive or production aid
88	Calcium carbonate (synthetic) treated with synthetic fatty acids, C14-18 and C16-18 unsatd.	Not applicable	Not applicable	Various categories	Additive or production aid
89	Calcium Stearate	216-472-8	1592-23-0	Additive in Plastics	Acid scavenger, to avoid corrosion of equipment can help slightly lubrication.
90	Calcium-Magnesium oxid	253-425-0	37247-91-9	Plastics	Additive
91	Cashew, nutshell liquid, polymer with diethylenetriamine, ethylenediamine and formaldehyde		1613633-26-3	Coatings/adhesives	Binder
92	Chlorbutyl		68081-82-3		Elastomer
93	Chlorite	215-285-9	1318-59-8	Coatings	Additive
94	Copper sulphate pentahydrate	616-477-9	7758-99-7	Plastics	Polymer production aid (salt, buffer)
95	Cumene	202-704-5	98-82-8	Coatings	Additive
96	Cyclohexane dimethanol diglycidyl ether	238-098-4	14228-73-0	Coatings/adhesives	Binder

No.	Name	EC no.	CAS no.	Material categories	Technical function
97	Decanoic acid, methyl ester	203-766-6	110-42-9	Coatings, Adhesives, Plastics	Impurity, Degradation product
98	Dehydro-L-ascorbic acid, L-threo-2,3-Hexodiulsonic acid, gamma.-lactone	207-720-6	490-83-5	Coatings, Adhesives, Plastics	Impurity, Degradation product
99	Di sodium hydrogenorthophosphate / Disodium Phosphate	231-448-7	7558-79-4	Plastics / Rubbers, Ion exchange resins	Polymer production aid (salt, buffer) / pH buffer,
100	Diallyl maleate	213-658-0	999-21-3	Various categories	Monomer or other reactant
101	Dibutyltin di(acetate)		1067-33-0	Silicones	Aid to polymerisation
102	Diiodomethyl-p-tolylsulfone	243-468-3	20018-09-1	Various categories	Production aid
103	Diisopropoxydi(ethoxyacetoacetyl)titanate	248-697-2	27858-32-8	Various categories	Aid to polymerisation or other reactant
104	Dimethylsiloxane, hydroxy terminated		70131-67-8	Silicone	
105	Di-n-butylamine	203-921-8	111-92-2	Various categories	Monomer or other reactant
106	Diocetyl tin dilaurate		3648-18-8	Silicone	Catalysator
107	Diphenylmethane-diisocyanate (isomers and homologues)		9016-87-9	Coatings/adhesives	Binder
108	Dipropylene glycol n-butylether	249-951-5	29911-28-2	Various categories	Production aid
109	Di-sec-butyl peroxydicarbonate,	243-424-3	19910-65-7	Plastics	Aid to polymerisation
110	Disunninic Acid Peroxide	204-611-5	123-23-9	Plastics	Initiator
111	Ditertbutoxydiacetoxysilane		13170-23-5	Silicone	Additive
112	Dodecyl sulfate sodium salt (dodecyl = C-12)/ Dodekylsulfate / Sodium dodecyl sulphate	205-788-1	151-21-3	Ion exchange resins / Plastics	Polymer production aid (emulsifier)
113	Dodecylammonium chloride, 1-Dodecanamine, hydrochloride	213-205-7	929-73-7	Coatings, Adhesives, Plastics	Impurity
114	DTDC_CLD dithiocaprolactame 1,1'-dithiobis [hexahydro-2H-azepin-2-one]	23847-08-7		Rubbers	Additive
115	EPDM (ETHYLENE-PROPYLENE-ETHYLIDENENORBORNENE TERPOLYMER)	607-505-0	25038-36-2	Rubber	Rubber Movement joint, present in product used by us, Elastomer
116	EPDM ETHYLENE-PROPYLENE COPOLYMER		9010-79-1	Rubbers	Additive
117	Epoxidised cashew nutshell	500-210-7	68413-24-1	Coatings/adhesives	Binder
118	Esters, sodium salts				
119	Ethanedial	203-474-9	107-22-2	Various categories	Monomer or other reactant
120	Ethyltrimethoxysilane		5314-55-6	All	Monomer/Additive
121	Ethyltrisacetoxysilane		17689-77-9	Silicone	
122	Fatty Acids C12 C14	292-771-7	90990-10-6	Plastics	Polymer production aid (antifoaming agent)
123	Fatty Acids C12 C18	266-925-9	67701-01-3	Plastics	Polymer production aid (antifoaming agent)
124	Fatty Acids C14 C22	270-298-7	68424-37-3	Plastics	Polymer production aid (antifoaming agent)
125	Fatty Acids C16 C18	266-928-5	67701-03-5	Plastics	Polymer production aid (antifoaming agent)
126	Fatty Acids C16 C22	268-103-5	68002-88-0	Plastics	Polymer production aid (antifoaming agent)
127	Fatty Acids C8 C10	273-086-2	68937-75-7	Plastics	Polymer production aid (antifoaming agent)
128	Fatty Acids C8 C16	287-973-7	85631-26-1	Plastics	Polymer production aid (antifoaming agent)

No.	Name	EC no.	CAS no.	Material categories	Technical function
129	Fatty Acids C8 C18	292-769-6	90990-08-2	Plastics	Polymer production aid (antifoaming agent)
130	Fatty Acids C8 C24	275-164-1	71076-48-7	Plastics	Polymer production aid (antifoaming agent)
131	Fatty acids, C12-14 (even numbered), methylester	629-776-4	308065-15-8	Coatings, Adhesives, Plastics	Additive or polymer production aid
132	Fatty acids, coco, ethoxylated	612-401-3	61791-29-5	Plastics	Polymer production aid (emulsifier)
133	Feldspar	270-666-7	68476-25-5	Coatings	Filling agent
134	Germanium dioxide		1310-53-8	All	Aid to polymerisation
135	Glycerides, C16-18 mono-	293-208-8	91052-47-0	Plastics	Additive
136	Guanidine, dodecyl-, monohydrochloride	237-030-0	13590-97-1	Coatings, Adhesives, Plastics	Other (in-can preservative)
137	Heavy Aliphatic Solvent	265-185-4	64742-82-1	Coatings	Additive
138	Hexadecyltrimethoxysilane		16415-12-6	All	Monomer/Additive
139	Hydrocarbons, C6, n-alkanes, isoalkanes, cyclics, n-hexane rich	925-292-5		Plastics	Solvent or polymer production aid
140	Hydrogenated Tallow Triglycerides		68308-54-3	Plastics	Additive
141	Hydroxyethene	209-183-3	557-75-5	Various categories	Monomer or other reactant
142	Hydroxypropyl methacrylate / Methacrylic acid, monoester with propane-1,2-diol	248-666-3	27813-02-1	Ion exchange resins / All, Glue/sealant	Monomer / Monomer, Present in product used by us
143	Iron oxide yellow	257-098-5	51274-00-1	Coatings	Pigment
144	Isodecyl methacrylate		29964-84-9	All	Monomer
145	Isododecane (main isomer: 2,2',4,6,6'-pentamethylheptane)	On the core list of 4MSI, missing in this file	93685-81-5 (13475-82-6)	Plastics	Phlegmatizer for organic peroxides Additive or polymer production aid
146	Isooctane (= 2,2,4-Trimethylpentane)		540-84-1	All, Ion exchange resins	Production aid, solvent, Polymer production aid
147	Kaolinite		1318-29-6		Filler
148	L-Alanine, N,N-bis(carboxymethyl)-, sodium salt		77554-84-8 164462-16-2	All	Production aid
149	L-Alanine, N,N-bis(carboxymethyl)-, sodium salt		77554-84-8, 164462-16-2	All	Production aid
150	Laureth-4 phosphate		39464-66-9	Silicone	Additive
151	Limestone / Calcium carbonate	215-279-6	1317-65-3 / , 471-334-1, 1317-65-3, 13397-25-6, 00471-34-1	Coatings / Silicone, Plastics	Filling agent / Additive
152	Lithium hydroxide		1310-65-2	All	Aid to polymerisation
153	Magnesite	208-473-5	546-93-0	Coatings	Filling agent
154	Magnesium calcium silicate	814-814-6	14483-19-3	Coatings	Filling agent
155	Magnesium stearate		68526-89-6	Rubbers	Additive
156	Methacrylic acid methoxy polyoxyethylene methacrylat copolymer sodium salt	-	349607-92-7	Admixtures	Polymer
157	Methanesulphonic acid	-	000075-75-2	Superplasticizer	Raw material
158	Methanesulphonic acid, sodium salt	219-203-2	002386-57-4	Superplasticizer	Reaction product
159	Methyl isopropyl ketone		182893-11-4	Plastics	Aid to polymerisation
160	Methyl-beta-cyclodextrin A.I.	411-120-1	128446-36-6	Various categories	Production aid
161	Methylenediphenyl diisocyanate	247-714-0	26447-40-5	Coatings/adhesives	Binder
162	Methylsilane triacetate		160738-91-0 / 4253-34-3	Silicone	Aid to polymerisation

No.	Name	EC no.	CAS no.	Material categories	Technical function
163	Methylstyrenated phenol	270-966-8	68512-30-1	Coatings/adhesives, Grout(?), sealant, injection in to concrete	Binder, Present in product used by us
164	Methyltrimethoxysilan / Trimethoxy(methyl)silane		1185-55-3	Silicone / All, Silicones	Aid to polymerisation / Additive, monomer and other reactant
165	Methyltrisacetoxysilane		4253-34-3	Silicone	
166	N-(2-aminoethyl)-N'-(3-(trimethoxysilyl)propyl)ethylenediamine		35141-30-1	All	Monomer/Additive
167	N,N'-Diphenyl-p-phenylenediamine		74-31-7	All	Aid to polymerisation
168	N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine		3069-29-2	Silicones, All	Additive, monomer and other reactant
169	N-1,3-dimethylbutyl-N'-phenyl-p-phenylenediamin		793-24-8	Rubber	Antioxidant/Antiozonant
170	Naphtenic oil		64742-52-5	Rubbers	Additive
171	Naphthalene	202-049-5	91-20-3	Coatings	Additive
172	Neodecanoic acid, ethenyl ester	256-905-8	51000-52-3	Coatings, Adhesives, Plastics	Monomer
173	N-Heptane		142-82-5	All	Production aid, solvent
174	N-isopropyl-N'-phenyl-p-phenylenediamin		101-72-4	Rubber	Antioxidant/Antiozonant
175	Nitrile butadiene rubber	618-357-1	9003-18-3	Rubber	Polymer, present in product used by us
176	N-Octylphosphonic Acid		4724-48-5	Silicone	Additive
177	N-Oleoylsarcosine	203-749-3	110-25-8	lubricant	Additive, production aid
178	Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine	309-629-8	100545-48-0	Coatings/adhesives	Binder
179	Octamethylcyclotetrasiloxane	209-136-7	556-67-2	Coatings	Additive
180	Octyltrichlorosilane		5283-66-9	All	Monomer/Additive
181	Orthophosphoric acid		7664-38-2	Silicone	Additive
182	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	271-846-8	68609-97-2	Grout(?), sealant, injection in to concrete	Present in product used by us
183	Paraffin oils, sulfochlorinated, saponified / Natriumalkansulfonat	269-144-1	68188-18-1	All / Plastics	Production aid / Polymer production aid (emulsifier)
184	P-benzoquinone dioxime	203-271-5	105-11-3	Bonding agent (not in direct contact with drinking water)	Not known
185	Phenol, polymer with formaldehyde, glycidylether	608-164-0	28064-14-4	Coatings	Additive
186	Phosphonomethyl(imino)bis(ethylenenitri lo) bis(methylene)tetrakisphosphonic acid, sodium salt	244-751-4	022042-96-2	Superplasticizer	Raw material
187	Phosphoric acid	231-633-2	007664-38-2	Superplasticizer	Raw material
188	Pigment Violet 23	606-790-9	215247-95-3	Coatings	Additive
189	Poloxalene	618-355-0	9003-11-6	Plastics	Polymer production aid (emulsifier)
190	Poly(methylenecyclohexanamine)		135108-88-2	Coatings/adhesives	Binder
191	Poly(N,N'-bis(tetramethylpiperidinyl)hexan diamin	617-335-9	82451-48-7	Plastics	This Additive is part of an Additive package which formulation is confidential. Some of our customers are using our product containing this Additive package in drinking water applications. We can provide the name of

No.	Name	EC no.	CAS no.	Material categories	Technical function
					the Additive package supplier if information is needed to add it to the list
192	Poly(oxy-1,2-ethanediyl), α -(2-methyl-1-oxo-2-propen-1-yl)- ω -[(2-methyl-1-oxo-2-propen-1-yl)oxy]-	25852-47-5		All	Monomer/Crosslinker
193	Polyadipate		174493-24-4	Rubber	Plastiziser
194	Polyalkylene glycol monobutyl ether	Not applicable	9038-95-3	Various categories	Production aid
195	Polycarboxylic acid salt type surfactant	-	097105-14-1	Admixtures	Polymer
196	Polydimethylsiloxane		63148-62-9	Silicone	
197	Polymer of Phenol, Formaldehyde and t-Bu-phenol	680-058-7	28453-20-5	Bonding agent (not in direct contact with drinking water)	Not known
198	Polypropylene glycol monobutyl ether	Not applicable	9003-13-8	Various categories	Production aid
199	Polysiloxane, containing vinyl and methoxy groups	131298-48-1		All	Additive
200	Propanoic acid, 2-ethylhexyl ester	228-551-4	6293-37-4	Coatings, Adhesives, Plastics	Impurity, Degradation product
201	Propanoic acid, butyl ester	209-669-5	590-01-2	Coatings, Adhesives, Plastics	Impurity, Degradation product
202	P-toluenesulphonyl isocyanate	223-810-8	4083-64-1	Glue	Component in EPDM-glue, present in product used by us
203	Pyrogallol	201-762-9	87-66-1	Coatings	Additive
204	Reaction mass of xylene and ethylbenzene	905-588-0	N/A	Bonding agent (not in direct contact with drinking water)	Not known
205	Rilsan/PA11	---	---	Coating (steel/iron)	Polymer, present in product used by us
206	Salicylic acid	200-712-3	69-72-7	Coatings/adhesives	Additive
207	Silane modified polyethyleneglycol		65994-07-2	All	Additive
208	Silane, hexadecyltrimethoxy-, hydrolysis products with silica, Silane, trimethoxyoctyl-, hydrolysis products with silica	199876-45-4, 92797-60-9		All	Additive, polymer production aid
209	Silicic acid (H ₄ SiO ₄), tetraethyl ester, hydrolyzed		68412-37-3	All	Monomer/Additive
210	Silicic acid, aluminum salt, silicic acid, calcium salt, silicic acid, aluminum magnesium sodium salt		1344-00-9, 1344-95-2, 12040-43-6	All	Additive, polymer production aid
211	Silicic acid, ethyl ester		11099-06-2	All	Monomer/Additive
212	Silicone dioxide	601-514-2	112926-00-8	Coatings	Additive
213	Silsesquioxanes, me, ethoxy-terminated		104780-78-1	All	Additive
214	Sodium 1,4-diisodecyl sulphonatosuccinate	249-894-6	29857-13-4	Plastics	Polymer production aid (emulsifier)
215	Sodium carbonate	207-838-8	497-19-8 (anhydrous), 5968-11-6 (monohydrate), 6132-02-1 (decahydrate)	Plastics, Ion exchange resins	Polymer production aid (salt, buffer)
216	Sodium di(1,3-dimethylbutyl)sulphosuccinate	219-147-9	2373-38-8	Plastics	Polymer production aid (emulsifier)
217	Sodium dioctylsulphosuccinate	246-680-4	25155-30-0	Plastics	Polymer production aid (emulsifier)
218	Sodium formiate	205-488-0	141-53-7	Plastics	Polymer production aid (salt,buffer)

No.	Name	EC no.	CAS no.	Material categories	Technical function
219	Sodium hydrogencarbonate / Sodium bicarbonate	205-633-8	144-55-8	Plastics / Ion exchange resins	Polymer production aid (salt,buffer)
220	Sodium Hydrosulfite	231-890-0	7775-14-6	Various categories	Aid to polymerisation or other reactant
221	Sodium lauryl ether sulfate	-	009004-82-4	Admixtures	Chemical agent
222	Sodium silicate	215-687-4	1344-09-8	Plastics	Polymer production aid (salt, buffer)
223	Sodium-2-acrylamido-2-methylpropane sulfonic acid	225-948-4	5165-97-9	Various categories	Monomer or other reactant
224	Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6	Coatings	Additive
225	Stearic acid		57-11-4	Silicone	Additive
226	Sulfonic acids, C14-17-sec-alkane, sodium salts	307-055-2	97489-15-1	Plastics, Various categories	Polymer production aid (emulsifier)
227	Sulphuric acid, mono-C12-14-alkyl esters, sodium salts / Sodium LaurylSulphate	287-809-4	85586-07-8	Plastics / Ion exchange resins	Polymer production aid (emulsifier)
228	Sulphuric acid, mono-C12-16-alkyl	277-362-3	73296-89-6	Plastics	Polymer production aid (emulsifier)
229	tert-Amyl hydroperoxide		3425-61-4	Plastics	Aid to polymerisation
230	tert-Amyl peroxyacetate		690-83-5	Plastics	Aid to polymerisation
231	tert-Amyl peroxybenzoate		4511-39-1	Plastics	Aid to polymerisation
232	Tert-Amyl peroxyneodecanoate	269-597-5	68299-16-1	Plastics	Aid to polymerisation
233	tert-Amylperoxy 2-ethylhexyl carbonate		70833-40-8	Plastics	Aid to polymerisation
234	Tert-Butyl peroxydiethylacetate		2550-33-6	Plastics	Aid to polymerisation
235	Tert-Butylperoxy 2-ethylhexyl carbonate		34443-12-4	Plastics	Aid to polymerisation
236	Tert-pentyl 2-ethylperoxyhexanoate		686-31-7	All	Aid to polymerisation
237	Tetradecanoic acid, methyl ester	204-680-1	124-10-7	Coatings, Adhesives, Plastics	Impurity, Degradation product
238	Tetraethylorthosilicate (TEOS)		78-10-4	All, Silicone	Additive
239	Tetraisopropyl Titanate / Titanium tetraisopropanolate	208-909-6	546-68-9	Various categories / All	Aid to polymerisation or other reactant
240	Tetrapotassium hexacyanoferrate	237-722-2	13943-58-3	Plastics	Polymer production aid (salt,buffer)
241	Tetrapropyl orthosilicate		682-01-9	All	Monomer/Additive
242	Tin oxide (SnO ₂)	242-159-0	18282-10-5	Various categories	Aid to polymerisation or other reactant
243	Titan-Bis(ethyl-acetoacetato-01, 03)bis(2methylpropan-1-olato)		83877-91-2	Silicone	Aid to polymerisation
244	Toluenesulphonic acid, monohydrate / Toluenesulphonic acid, sodium salt	203-180-0	006192-52-5	Superplasticizer	Raw material / reaction product
245	Tributylphenol polyglycol ether		9046-09-7	All	Production aid
246	Triethoxy(methyl)silane		2031-67-6	All	Monomer/Additive
247	Triethoxy(octyl)silane		2943-75-1	All	Monomer/Additive
248	Triethoxyisobutylsilane / Isobutyltriethoxysilane		17980-47-1	All / Silicones	Monomer/Additive / Additive, monomer and other reactant
249	Triethoxypropylsilane		2550-02-9	All	Monomer/Additive
250	Triethoxysilane		998-30-1	All	Monomer/Additive
251	Trihexylamine	203-062-9	102-86-3	Various categories	Monomer or other reactant
252	Trimethoxyoctylsilane		3069-40-7	All	Monomer/Additive
253	Trimethoxypropylsilane		1067-25-0	All, Silicones	Additive, monomer and other reactant, Aid to polymerisation

No.	Name	EC no.	CAS no.	Material categories	Technical function
254	Trimethylhexane-1,6-diamine	247-134-8	25620-58-0	Coatings	Additive
255	Trimethylolpropane triacrylate	239-701-3	15625-89-5	Various categories	Monomer or other reactant
256	Triphenylmethan-4,4',4"-trisisocyanat	219-351-8	2422-91-5	Glue	Component in EPDM-glue, present in product used by us
257	Tripropylene glycol monobutyl ether	259-910-3	55934-93-5	Various categories	Production aid
258	Trisodium ortho phosphate	231-509-8	7601-54-9	Plastics	Polymer production aid (salt, buffer)
259	Trizinc bis(orthophosphate)	231-944-3	7779-90-0	Coatings	Additive
260	We do not know the exact composition of the bonding agents we purchase except if the substances are specified in the safety data sheet. We suggest that the prohibition of using CMR substances should not apply for layers not in direct contact with drinking water, if the migration can be determined to be below a specific limit. To the best of our knowledge, there are no rubber-to-metal bonding agents available on the market that can comply with the new requirements.				Elastomer bonding agents (Indirect contact with drinking water)
261	Zeolites, Silicic acid, aluminum salt, silicic acid, calcium salt, silicic acid, aluminum magnesium sodium salt		1318-02-1, 1344-00-9, 1344-95-2, 12040-43-6	All	Additive, polymer production aid
262	Zinc acetate, dihydrate		5970-45-6	All	Aid to polymerisation
263	Zinc dibutyl dithiophosphate		6990-43-8	Rubbers	Additive
264	Zinc Stearate	209-151-9	557-05-1	Plastics, Rubbers	Additive, acid scavenger, to avoid corrosion of equipment + can help slightly lubrication.
265	Zinc(II) acetylacetonate		14024-63-6	Silicones	Aid to polymerisation
266	Zinc-2-mercaptobenzothiazole		155-04-4		Crosslinking agent
267	Zirconium Oxide	215-227-2	1314-23-4	Coatings	Additive
Ion exchange resins					
1	(Benzyloxy)methanol		14548-60-8	Ion exchange resins	DE: Aid in the polymerisation
2	1,2-Dichloropropane		78-87-5	Ion exchange resins	Polymer production aid
3	1,2-Dimethoxyethan		110-71-4	Ion exchange resins	Polymer production aid
4	2,2'-Azobis(2,4-dimethylpentanenitrile)		4419-11-8	Ion exchange resins	Aid to polymerisation
5	2,2-Dimethylpropan-1,3-diamin		7328-91-8	Ion exchange resins	
6	2-Pentanol, 1,1',1",1'''-(1,2-ethandiyl)dinitrilo) tetrakis	86443-82-5		Ion exchange resins	Polymer production aid
7	4-Phenylazodiphenylamine		101-75-7	Ion exchange resins	
8	Acrylamide - acrylic acid, copolymer		9003-06-9	Ion exchange resins	DE: Aid in the polymerization
9	Alcohol ethoxylate		68439-46-3	Ion exchange resins	
10	Alcohols C10, ethoxylated		160875-66-1	Ion exchange resins	Polymer production aid
11	Aluminium chloride		7446-70-0	Ion exchange resins	Polymer production aid
12	Aluminum silicate		12174-11-7	Ion exchange resins	Polymer production aid
13	Amine		4292-25-2	Ion exchange resins	Polymer production aid

No.	Name	EC no.	CAS no.	Material categories	Technical function
14	Barium hydroxide monohydrate		22326-55-2	Ion exchange resins	Starting substance
15	Base oil		8002-5-9	Ion exchange resins	Polymer production aid
16	Benzene, mono-C10-13-alkyl derivs., distn. residues	84961-70-6		Ion exchange resins	Polymer production aid
17	Benzenesulfonic acid, ethenyl-, homopolymer		50851-57-5	Ion exchange resins	Chemical modifier
18	Benzoquinone		106-51-4	Ion exchange resins	Aid to polymerisation
19	Blanose 7H3SF (carboxymethylcellulose)		900-32-4	Ion exchange resins	Polymer production aid
20	Calcium chloride		10043-52-4	Ion exchange resins	Additive (to confer the ionic form)
21	Calcium lignosulfonate		8061-52-7	Ion exchange resins	Polymer production aid
22	Calium carbonate		471-34-1	Ion exchange resins	Additive
23	Chloroform		67-66-3	Ion exchange resins	Starting substance
24	Chloromethyl methyl ether		107-30-2	Ion exchange resins	Starting substance
25	Chlorosulfonic acid		7790-94-5	Ion exchange resins	Starting substance
26	Cyclohexane		110-82-7	Ion exchange resins	Polymer production aid
27	Cyclohexylamine		108-91-8	Ion exchange resins	Aid to polymerisation
28	Dichlorethan	203-458-1	107-06-2	Ion exchange resins	Polymer production aid
29	Didecyl Dimethyl Ammonium Chloride		7173-51-5	Ion exchange resins	Polymer production aid
30	Diethyleneglycol divinyl ether		764-99-8	Ion exchange resins	Monomer
31	Diethyliminodiacetate		6290-89-7	Ion exchange resins	Polymer production aid
32	Di-isobutyl ketone		108-83-8	Ion exchange resins	Polymer production aid
33	Dipotassium hydrogen phosphate	231-834-5	7758-11-4	Ion exchange resins	Polymer production aid
34	Disodium (hydrogen) phosphate		7758-16-9	Ion exchange resins	Aid to polymerisation
35	Disodium-hydrogenphosphate		10039-32-4	Ion exchange resins	Additive
36	Distillates (petroleum), solvent-dewaxed heavy / Petroleum distillate	64742-65-0		Ion exchange resins	Polymer production aid
37	EMPICOL		68585-47-7	Ion exchange resins	Aid to polymerisation
38	Eracetic acid		79-21-0	Ion exchange resins	Polymer production aid
39	Ferric (III) chloride hexahydrate		10025-77-1	Ion exchange resins	Polymer production aid
40	Ferrous Sulfate Heptahydrate		7782-63-0	Ion exchange resins	Starting substance
41	Iminobis(acetic acid), diethyl ester		6290-05-7	Ion exchange resins	Polymer production aid
42	Iron chloride		7705-08-0	Ion exchange resins	Polymer production aid, DE: Catalyst
43	Isododecan		31807-55-3	Ion exchange resins	Polymer production aid
44	Magnesium silicate		1343-88-0	Ion exchange resins	Additive
45	Magnesium Sulfate Heptahydrate		10034-99-8	Ion exchange resins	Starting substance
46	Metaphosphoric acid, calcium sodium salt		23209-59-8	Ion exchange resins	Polymer production aid
47	Methyl blue		28983-56-4	Ion exchange resins	Additive
48	Methyl chloride (or chloromethane)		74-87-3	Ion exchange resins	DE: Monomer
49	Methylamine		74-89-5	Ion exchange resins	Polymer production aid
50	Methylene Blue		61-73-4, 7220-79-3	Ion exchange resins	Additive, Polymer production aid
51	N-(Hydroxymethyl)phthalimide		118-29-6	Ion exchange resins	Starting substance

No.	Name	EC no.	CAS no.	Material categories	Technical function
52	N,N-Dimethyl-1,3-diaminopropane		109-55-7	Ion exchange resins	Starting substance, Polymer production aid, Chemical modifier
53	N,N-dimethylglycine ethyl ester		33229-89-9	Ion exchange resins	Chemical modifier
54	Natriumdissulfid		7681-57-4	Ion exchange resins	Additive
55	Nitric acid, silver salt (AgNO ₃)		7761-88-8	Ion exchange resins	Polymer production aid, DE: Additive
56	Nitrobenzene		98-95-3	Ion exchange resins	Polymer production aid
57	N-methylglucamine		6284-40-8	Ion exchange resins	Starting substance
58	N-octyl/n-decyl alcohol phosphate diethanolamine salt	68425-57-0		Ion exchange resins	Polymer production aid
59	Oleum / sulphur trioxide in sulphuric acid		8014-95-7	Ion exchange resins	Polymer production aid / starting substance / Additive
60	O-xylene		95-47-6	Ion exchange resins	Polymer production aid
61	Paraformaldehyde		30525-89-4	Ion exchange resins	Starting substance
62	Peroxide, benzoyl 3-methylbenzyl		96662-04-3	Ion exchange resins	Aid to polymerisation
63	Peroxide, bis (3-methylbenzoyl)		1712-87-4	Ion exchange resins	Aid to polymerisation
64	Phthalic acid, dimethyl ester		131-11-3	Ion exchange resins	Polymer production aid
65	Phthalimide		85-41-6	Ion exchange resins	DE: Monomer
66	Poly(4-styrenesulfonic acid) sodium salt		25704-18-1	Ion exchange resins	Polymer production aid
67	Poly(dimethyldiallylammonium chloride)		26062-79-3	Ion exchange resins	Polymer production aid
68	Poly(styrenesulphonic acid), sodium salt		9080-79-9	Ion exchange resins	DE: Additive
69	Polyalkyleneoxide Modified Trisiloxane		67674-67-3	Ion exchange resins	Aid to polymerisation
70	Polydimethylsiloxane emulsion		64741-89-5	Ion exchange resins	Aid to polymerisation
71	Polyethylene glycol octyphenyl		9036-19-5	Ion exchange resins	Polymer production aid
72	Polymer of styrene/ anhydride maleique, ammonium salt	68171-59-5		Ion exchange resins	Polymer production aid
73	Polystyrene sulfonic acid		28210-41-5	Ion exchange resins	
74	Potassium bicarbonate		298-14-6	Ion exchange resins	Aid to polymerisation
75	Potassium permanganate		7722-64-7	Ion exchange resins	Polymer production aid
76	Propane diamine		78-90-0	Ion exchange resins	
77	P-toluenesulphonic acid monohydrate		6192-52-5	Ion exchange resins	Polymer production aid
78	Silica gel		63231-67-4	Ion exchange resins	Polymer production aid / Additive
79	Sodium chloride		7647-14-5	Ion exchange resins	Polymer production aid or Additive
80	Sodium chloroacetate		3926-62-3	Ion exchange resins	starting substance
81	Sodium dichromate		10588-01-9	Ion exchange resins	Aid to polymerisation
82	Sodium ethanoate		127-09-3	Ion exchange resins	Polymer production aid
83	Sodium lignine sulfonate		9009-75-0	Ion exchange resins	Additive
84	Sodium lignosulfonate		8061-51-6	Ion exchange resins	Polymer production aid
85	Sodium phosphite		15475-67-9	Ion exchange resins	Polymer production aid
86	Sodium sulphate		7757-82-6	Ion exchange resins	Additive
87	Stearyl methacrylate		32360-05-7	Ion exchange resins	Monomer

No.	Name	EC no.	CAS no.	Material categories	Technical function
88	Tert-butyl peroctoate		13467-82-8	Ion exchange resins	Aid to polymerisation
89	Tetraethylenpentamine		112-57-2	Ion exchange resins	Starting substance
90	Thiourea		62-56-6	Ion exchange resins	Polymer production aid
91	Tributylamine		102-82-9	Ion exchange resins	DE: Monomer
92	Trimethylamine		75-50-3	Ion exchange resins	Starting substance
93	Trimethylolpropane DiallylEther		680-09-7	Ion exchange resins	Monomer
94	Tri-n-propylamine		102-69-2	Ion exchange resins	DE: Monomer
95	Trisodium phosphate		7601-54-9, 10101-89-0	Ion exchange resins	Polymer production aid, Aid to polymerisation
96	Trivinylcyclohexane		2855-27-8	Ion exchange resins	Monomer
97	Zinc chloride		7646-85-7	Ion exchange resins	Polymer production aid

Table B.2 - Additional metallic compositions identified by stakeholders as missing from the EUPL.

No.	Name	Standardised notation	Product group(s)
1	1.4408 Stainless steel acc. EN 10213		
2	CC/CB770S (CuZn36Pb1AsAl)	<p>Cu: 61.5%-64.0%</p> <p>Zn: remainder</p> <p>Pb: 0.2%-1.6%</p> <p>As: 0.04%-0.14%</p> <p>Al: 0.5%-0.7%</p> <p>Fe: ≤0.3%</p> <p>Mn: ≤0.1%</p> <p>Ni: ≤0.2%</p> <p>Sn: ≤0.3%</p> <p>Each other impurity: <0.02%</p>	B, C, D
3	CC/CB772S (CuZn36Pb1AsSbAl)	<p>Cu: 62.0%-65.0%</p> <p>Zn: remainder</p> <p>Pb: 0.2%-1.1%</p> <p>As: 0.02%-0.04%</p> <p>Sb: 0.03%-0.06%</p> <p>Al: 0.45%-0.7%</p> <p>Fe: ≤0.2%</p> <p>Mn: ≤0.1%</p> <p>Ni: ≤0.2%</p> <p>Sn: ≤0.3%</p> <p>Each other impurity: <0.02%</p>	B, C, D
4	CW617N (CuZn40Pb2)	Brass	
5	CW511L (CuZn38As)	<p>Cu: 61.5%-63.5%</p> <p>Zn: remainder</p> <p>As: 0.02%-0.15%Al: ≤0.05%</p> <p>Fe: ≤0.1%</p> <p>Mn: ≤0.1%</p> <p>Ni: ≤0.3%</p> <p>Pb: ≤0.2%</p> <p>Sn: ≤0.1%</p> <p>Any other impurity: <0.02%</p>	B, C, D

No.	Name	Standardised notation	Product group(s)																											
6	CW602N (CuZn36Pb2As)	Cu: 61.0%-62.0% Zn: remainder Pb: 1.7-2.0% As: 0.02%-0.05% Sn: ≤0.1% Fe: ≤0.1% Al: ≤0.05% Ni: ≤0.1% Mn: ≤0.01% Total impurities: max. 0.2%	B, C, D																											
7	CW610N (CuZn39Pb0.5)	<table border="1"> <thead> <tr> <th>Comp</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>Cu</td> <td>59.0</td> <td>60.5</td> </tr> <tr> <td>Zn</td> <td>Rem</td> <td>Rem</td> </tr> <tr> <td>Pb</td> <td>0.2</td> <td>0.8</td> </tr> <tr> <td>Al</td> <td>-</td> <td>0.05</td> </tr> <tr> <td>Fe</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Ni</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Si</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Sn</td> <td>-</td> <td>0.2</td> </tr> </tbody> </table>	Comp	Min	Max	Cu	59.0	60.5	Zn	Rem	Rem	Pb	0.2	0.8	Al	-	0.05	Fe	-	0.2	Ni	-	0.2	Si	-	0.2	Sn	-	0.2	B, C, D
Comp	Min	Max																												
Cu	59.0	60.5																												
Zn	Rem	Rem																												
Pb	0.2	0.8																												
Al	-	0.05																												
Fe	-	0.2																												
Ni	-	0.2																												
Si	-	0.2																												
Sn	-	0.2																												
8	CW611N (CuZn39Pb1)	<table border="1"> <thead> <tr> <th>Comp</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>Cu</td> <td>59.0</td> <td>60.0</td> </tr> <tr> <td>Zn</td> <td>Rem</td> <td>Rem</td> </tr> <tr> <td>Pb</td> <td>0.8</td> <td>1.6</td> </tr> <tr> <td>Al</td> <td>-</td> <td>0.05</td> </tr> <tr> <td>Fe</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Ni</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Si</td> <td>-</td> <td>0.2</td> </tr> <tr> <td>Sn</td> <td>-</td> <td>0.2</td> </tr> </tbody> </table>	Comp	Min	Max	Cu	59.0	60.0	Zn	Rem	Rem	Pb	0.8	1.6	Al	-	0.05	Fe	-	0.2	Ni	-	0.2	Si	-	0.2	Sn	-	0.2	B, C, D
Comp	Min	Max																												
Cu	59.0	60.0																												
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Fe	-	0.2																												
Ni	-	0.2																												
Si	-	0.2																												
Sn	-	0.2																												
9	CW617-DW EN12164 or EN12420	Special version of CuZn40Pb2	B, C, D																											
10	CW612N (CuZn39Pb2)	<table border="1"> <thead> <tr> <th>Comp</th> <th>Min</th> <th>Max</th> </tr> </thead> <tbody> <tr> <td>Cu</td> <td>57.0</td> <td>60.0</td> </tr> <tr> <td>Zn</td> <td>Rem</td> <td>Rem</td> </tr> <tr> <td>Pb</td> <td>1.6</td> <td>2.2</td> </tr> <tr> <td>Al</td> <td>-</td> <td>0.05</td> </tr> <tr> <td>Fe</td> <td>-</td> <td>0.3</td> </tr> <tr> <td>Ni</td> <td>-</td> <td>0.1</td> </tr> <tr> <td>Si</td> <td>-</td> <td>0.03</td> </tr> <tr> <td>Sn</td> <td>-</td> <td>0.3</td> </tr> </tbody> </table>	Comp	Min	Max	Cu	57.0	60.0	Zn	Rem	Rem	Pb	1.6	2.2	Al	-	0.05	Fe	-	0.3	Ni	-	0.1	Si	-	0.03	Sn	-	0.3	C, D
Comp	Min	Max																												
Cu	57.0	60.0																												
Zn	Rem	Rem																												
Pb	1.6	2.2																												
Al	-	0.05																												
Fe	-	0.3																												
Ni	-	0.1																												
Si	-	0.03																												
Sn	-	0.3																												
11	CW625N (CuZn35Pb1.5AlAs)	Cu: 62.0%-64.0% Zn: remainder Pb: 1.2%-1.6% As: 0.02%-0.15% Al: 0.5%-0.7% Fe: ≤0.3% Mn: ≤0.1% Ni: ≤0.2% Sn: ≤0.3% Each other impurity: <0.02%	B, C, D																											

No.	Name	Standardised notation	Product group(s)
12	CW626N (CuZn33Pb1.5AlAs)	Cu: 64.0%-66.0% Zn: remainder Pb: 1.2%-1.7% As: 0.02%-0.15% Al: 0.8%-1.0% Fe: ≤0.3% Mn: ≤0.1% Ni: ≤0.2% Sn: ≤0.3% Each other impurity: <0.02%	B, C, D
13	CW627N (CuZn40Pb1)	Comp Min Max Cu 57.0 59.0 Zn Rem Rem Pb 0.8 1.6 Al - 0.05 Fe - 0.3 Ni - 0.2 Si - 0.2 Sn - 0.2	B, C, D
14	Ductile Iron	Ductile Iron EN 1563 grade EN-GJS-400-18, EN-GJS-400-15, EN-GJS-450-10 or EN-GJS-500-7	Pipe couplings/fittings housing material quality
15	Steel pipes manufactured according to EN 10255	EN 10255	Steel pipes ((assume product group A from this answer)
16	Washer, nuts and bolts	Stainless-steel ISO 3506-1. Stainless-steel EN 3506-2 . Stainless-steel EN 1.4401 or better. EN 1.4301	Washers, nuts and bolts
17	CC772S (CuZn36Pb1.5AsSbAl)	Cu: 62.0%-65.0% Zn: remainder Pb: 0.2%-1.1% As: 0.02%-0.04% Sb: 0.03%-0.06% Al: 0.45%-0.7% Fe: ≤0.2% Mn: ≤0.1% Ni: ≤0.2% Sn: ≤0.3% Each other impurity: <0.02%	B, C, D

Table B.3 - Additional cementitious constituents identified by stakeholders as missing from the EUPL. Inorganic constituents identified by stakeholders are presented separately in the second part of this table.

No.	Name	EC no.	CAS no.	Constituent categories	Technical function
1	1H-Imidazole, 2,2'-[1,2-diazenediyl]bis(1-methylethylidene)]bis[4,5-dihydro-, hydrochloride		27776-21-2		Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)
2	2-[(2-Methyl-1-oxoallyl)oxy]ethyl acetoacetate		21282-97-3	Monomer	
3	2-Mercaptoethanol	200-464-6	000060-24-2	Admixtures	Raw material

No.	Name	EC no.	CAS no.	Constituent categories	Technical function
4	2-Propenoic acid, polymer with 2-propenamide, sodium salt	607-842-3	25987-30-8		Polymer
5	3-Bromo-2-(bromomethyl)propionic acid	-	041459-41-1	Admixtures	Raw material
6	3-Methyl-3-buten-1-ol		763-32-6	Monomer, Other reactant	
7	3-Trimethoxysilylpropyl methacrylate		2530-85-0	Monomer	
8	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	931-292-6	308062-28-4	Admixtures	Air entraining agent
9	Aminotriethylenphosphoricacid		20592-85-2	Admixtures	
10	Bis(3-aminopropyl)dodecylamine (BDA) / N,N-Bis(3-aminopropyl)dodecylamine	219-145-8	2372-82-9	Biocide / Formwork Release Agents	It is present in a product which we have used to seal cracks in concrete structures. The role is unknown to us a downstream user./ Organic addition
11	Bronopol	200-143-0	52-51-7	Biocide	It is present in a product which we have used to seal cracks in concrete structures. The role is unknown to us a downstream user.
12	Brüggolit FF6	432-070-7			Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)
13	Butanedioic acid, 2(or 3)-sulfo-,4-[2-[(1-oxo(C12-C18 (even numbered) and C18 unsaturated)alkyl)]amino]ethylesters, disodium salt	939-637-2	1691195-92-2	Admixtures	Air entraining agent
14	Butanenitrile, 2,2'-(1,2-diazenediyl)bis[2-methyl-]		13472-08-7		Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)
15	Diethanolisopropylamine		598-74-3	Admixtures	
16	Distillates (Fischer - Tropsch), heavy, C18-50– branched, cyclic and linear	482-220-0	848301-69-9	Formwork Release Agents	Base oil
17	Distillates (petroleum), hydrotreated heavy paraffinic; base oil — unspecified		64742-54-7	Formwork Release Agents	Base oil
18	Fatty Acid Methyl Esters	267-015-4	67762-38-3	Formwork Release Agents	Base oil
19	Glutamic acid, N,N-diacetic acid, tetrasodium salt, 38% aqueous solution		51981-21-6	Admixtures	Chelating agent
20	Glycol		107-21-1	Admixtures	
21	HPEG-PCE; Acrylic and/or Methacrylicacid-Co-Polyglycol-Polymer		--	Admixtures	
22	Hydroxyethylacrylate		818-61-1	Admixtures	Monomer
23	I-Nonylalkohol, ethoxyliert, butoxyliert		303152-49-0	Admixtures	Defoamer

No.	Name	EC no.	CAS no.	Constituent categories	Technical function	
24	L-cysteine		52-89-1		Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	
25	Maleic acid		203-742-5	Admixtures	Monomer	
26	Methanesulphonic acid	-	000075-75-2	Admixtures	Raw material	
27	Methanesulphonic acid, sodium salt	219-203-2	002386-57-4	Admixtures	Reaction product	
28	Methylhydroxyethylcellulose		--	Admixtures		
29	Metyldiethanolamine		105-59-9	Admixtures		
30	MPEG-PCE; Acrylic and/or Methacrylicacid-Co-Polyglycol-Polymer		--	Admixtures		
31	N-Dodecylmercaptan		112-55-0		Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	
32	N-Methylolacrylamide		924-42-5			
33	Pentaerythriol Mono-Oleate	288-305-7	85711-45-1	Formwork Release Agents	Emulsifier	
34	Phenoxyethanol		122-99-6	Formwork Release Agents	Biocide	
35	Phosphonomethyl(imino)bis(ethylenenitri lo) bis(methylene)tetrakisphosphonic acid, sodium salt	244-751-4	022042-96-2	Admixtures	Raw material	
36	Phosphoric acid 2-Ethylhexyl ester	235-741-0	12645-31-7	Formwork Release Agents	Emulsifier	
37	Poly(EO-Co-PO)-monobutylether		9038-95-3	Admixtures		
38	Poly(oxy-1,2-ethanediyl), α -(3-methyl-3-buten-1-yl)- ω -hydroxy-		110412-77-6		Monomer, Other reactant	
39	Poly(oxy-1,2-ethanediyl), α -[4-(ethenyloxy)butyl]- ω -hydroxy-		126682-74-4		Monomer, Other reactant	
40	Poly(oxy-1,2-ethanediyl), α -butyl- ω -hydroxy-		9004-77-7	Admixtures	Monomer for PCE Synthesis	
41	Polyethylene glycol monomethallylether		31497-33-3		Monomer, Other reactant	
42	Polyethylene Mono-Oleate	Polymer	9004-96-0	Formwork Release Agents	Emulsifier	
43	Potassium sodium tartrate		304-59-6			
44	Propanimidamide, 2,2'-(1,2-diazenediyl)bis[2-methyl-, hydrochloride (1:2)	2997-92-4			Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	Article 6 paragraph 4b
45	P-Toluenesulfonic acid		104-15-4		Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	

No.	Name	EC no.	CAS no.	Constituent categories	Technical function
46	Reaction products of demethyl siloxanes and silicones with silica	-	067762-90-7	Admixtures	Raw material
47	Sodium 2-hydroxypropane-2-sulphonate		540-92-1	Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	
48	Sodium ethylene sulfonate		3039-83-6	Monomer	
49	Sodium hydroxymethanesulphinate		149-44-0	Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	
50	Sodium methallylsulfonate		1561-92-8	Monomer	
51	Sorbitan Oleate	215-665-4	1338-43-8	Formwork Release Agents	Emulsifier
52	Tert-Butyl peroxybenzoate		614-45-9	Admixture, addition	
53	Tert-Dodecanethiol		25103-58-6	Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	No
54	Tetrasodium ethylenediaminetetraacetate		64-02-8	Aid to polymerisation (exempted to be mentioned in the list of annex I of 10/2011 as outlined in article 6 paragraph 4b)	
55	Toluenesulphonic acid, monohydrate / Toluenesulphonic acid, sodium salt	203-180-0	006192-52-5	Admixtures	Raw material / Reaction product
56	Triethoxyoctylsilane	220-941-2	2943-75-1	Admixture	It is present in a product which we have used to seal cracks in concrete structures. The role is unknown to us a downstream user.
57	Triisopropylamine		3424-21-3	Admixtures	
58	Trisodium citrate		68-04-2	Admixtures	
59	Trisodium citrate dihydrate		6132-04-3	Admixtures	
60	Various Polymers in Polymer dispersions		confidential	Organic addition	Polymeric binder
61	Various Polymers in Superplasticizers		confidential	Admixture	Superplasticizer
Inorganic constituents (outside scope of Article 11 of the DWD)					
1	Alkali-Resistant glass fibre			Admixtures	
2	Ammonium peroxodisulphate	231-786-5	007727-54-0	Admixtures	Raw material
3	Ammonium phosphate	233-793-9	010124-31-9	Admixtures	Reaction product
4	Ammonium sulphate	231-984-1	007783-20-2	Admixtures	Reaction product
5	Calcium dihydroxide / hydroxide		1305-62-0	Admixture, addition	Accelerator, Monomer, Other reactant

No.	Name	EC no.	CAS no.	Constituent categories	Technical function
6	Calcium oxide		1305-78-8	Admixture, addition	Accelerator
7	Calciumsulfate		7778-18-9	Admixture, addition	
8	Carbonate, Calcium		471-34-1	Admixtures	
9	Carbonate, Lithium		554-13-2	Admixtures	Accelerator
10	Carbonate, Potassium		584-08-7	Admixtures	Accelerator
11	Carbonate, Sodium		497-19-8	Admixture, addition	Accelerator
12	Disodium disulfite		7681-57-4	Admixture, addition	
13	Disodium peroxodisulphate		7775-27-1	Admixture, addition	
14	Dolomite		16389-88-1	Admixture, addition	
15	Eisen(II) sulfat		7782-63-0	Admixture, addition	
16	Hydrogen peroxide		7722-84-1	Admixture, addition	
17	Kaolin		1332-58-7	Admixture, addition	
18	Limestone		1317-65-3	Other	Physical function
19	Metakaolin		15123-81-6	Admixture, addition	
20	Natriumhydrogensulfid		7630-90-5	Admixture, addition	
21	Phosphoric acid	231-633-2	007664-38-2	Admixtures	Raw material
22	Portland cement		65997-15-1	Cement	
23	Potassium hydroxide		1310-58-3	Admixture, addition	Monomer, Other reactant
24	Potassium phosphate	231-907-1	007778-53-2	Admixtures	Reaction product
25	Potassium sulphate	231-915-5	007778-80-5	Admixtures	Reaction product
26	Quartze		14808-60-7	Other	Physical function
27	Silica Fume		69012-64-2	Admixture, addition	
28	Silicic acid, calcium salt		1344-95-2	Admixture, addition	
29	Silicon dioxide	-	112926-00-8	Admixtures	Raw material
30	Sodium bisulphite		7631-90-5	Admixture, addition	Monomer, Other reactant
31	Sodium hydrogencarbonate		144-55-8	Admixture, addition	
32	Sodium hydroxide	215-185-5	001310-73-2	Admixtures	Raw material
33	Sodium phosphate	-	015819-50-8	Admixtures	Reaction product
34	Sodium sulphate	231-820-9	007757-82-6	Admixtures	Reaction product
35	Synthetic amorphous silica		7631-86-9	Other	Physical function
36	Talc (Mg3H2(SiO3)4)		14807-96-6	Admixture, addition	
37	Tetrapotassium Diphosphate / Tetrapotassium pyrophosphate	230-785-7	7320-34-5	Admixtures	Retarding agent
38	Tetrasodium pyrophosphate		7722-88-5	Admixture, addition	
39	Zinc oxide		1314-13-2	Admixture, addition	

Table B.4 - Additional inorganic compositions identified by stakeholders as missing from the EUPL.

Number	Composition name	Description
1	HfO ₂	Hafnium oxide HfO ₂ is a by-product of zirconium oxide (ZrO ₂) which is already included in the positive list. HfO ₂ is being assessed by the German Environment Agency for the inclusion in the 4MSI Positive List.

Inorganic compositions (outside scope of Article 11 of the DWD)		
1	Sand	In a water production plant the water is commonly filtered through one or more sandfilters
2	Gravel	In a water production plant the water is commonly filtered through one or more sandfilters. Coarser material used to improve flow and distribution in the filters
3	Macadam	In a water production plant the water is commonly filtered through one or more sandfilters. Coarser material used to improve flow and distribution in the filters