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Survey in support of the Commission services' work on the definition of Safe and Sustainable by Design criteria for chemicals and materials

Fields marked with * are mandatory.

About this Survey

This survey is addressed to all interested parties, including European authorities, industry, academia, and civil society. Your feedback will inform the European Commission on the further development of the criteria.

The deadline for replies is 30-06-2021

If you have any questions, please contact the European Commission via RTD-SUSTAINABLE-BY-DESIGN@ec.europa.eu

Your voice matters and we are grateful to you for taking the time to complete this consultation.

I acknowledge that I have read the Data Protection Notice attached (please see below).

Data_protection_notice.pdf

Introduction

With the European Green Deal (COM 2019/640), the European Commission outlines its vision to make the European economy and society more sustainable. Great attention is paid on how to achieve climate neutrality, circular economy, biodiversity protection, and a zero-pollution ambition for a toxic-free environment. One of the priorities is to protect citizens and the environment against the negative impact of hazardous chemicals, materials and products and to encourage safe and sustainable alternatives.

In October 2020, the Commission adopted the Chemicals Strategy for Sustainability (COM 2020/667), one of the steps towards a zero-pollution ambition for a toxic-free environment announced in the European Green Deal. The Zero Pollution action plan (COM 2021/400) was published in May 20021. The Chemicals Strategy sets out concrete actions to support the transition towards chemicals, materials and their use in products that are concurrently safe and sustainable starting with the design phase and taking into account the overall life cycle: production, use and end-of-life. As announced in the Strategy, the European

Commission will develop EU safe and sustainable by design criteria by 2022.

In the Strategy, the following working definition of 'Safe and Sustainable by design' (SSbD) was proposed: 'a pre-market approach that focuses on providing a function (or service), while avoiding volumes and chemical properties that may be harmful to human health or the environment, in particular groups of chemicals likely to be (eco-)toxic, persistent, bio-accumulative or mobile. Overall sustainability should be ensured by minimising the environmental footprint of chemicals in particular on climate change, resource use, ecosystems and biodiversity, from a lifecycle perspective.'

As a first step in the development process of Safe and Sustainable by Design criteria for chemicals and materials, DG Research and Innovation and DG Environment organised the 1st stakeholder workshop on 19 March 2021, in order to start discussing the scope and relevant initiatives on this topic. Please find here r e c o r d i n g .

Following the 1st workshop, a mapping study carried out by the Commission was published in April 2021 identifying existing policies and initiatives that implement safety and sustainability criteria. The study analyses a sample of criteria under these policies and initiatives with a focus on chemicals and materials, and it includes a section on the research and innovation progress done on Safe-by-Design under Horizon $\begin{pmatrix} 0 & 2 & 0 \end{pmatrix}$.

The purpose of this survey is to complement the findings of the mapping study by obtaining views of stakeholders on the general understanding of the principles of Safe and Sustainable by Design when applied to chemicals and materials, and to set the basis for identifying criteria for a safe and sustainable-by-design approach. The overall goal of the Safe and Sustainable by Design criteria is to incentivise the production and use of safe and sustainable chemicals and materials and support the different actors in this transition. Furthermore, we are looking to shed light on its possible implementation and define the priority sectors/applications to start defining criteria. The results of the survey will be taken up by the Commission services in the work of defining the Safe and Sustainable by Design criteria and the outcome will be communicated in the context of this work. Your input will be treated anonymously.

Link to the mapping study

Link to the Safe and Sustainable by Design website

Link to the Safe and Sustainable by Design website

as a stakeholder

For further questions please write to RTD-SUSTAINABLE-BY-DESIGN@ec.europa.eu

Information about the respondent

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Are you responding to this survey on behalf of/as:
Academic institution / University
Public research institution
Business or Industry association
Company
Non-governmental consumer organisation
Non-governmental environmental protection organization
Trade Union
Other non-governmental organization (NGO)
Public authority
 Individual citizen
Other (to be filled)
Other
Name of the company/organisation:
American Chamber of Commerce to the European Union (AmCham EU)
Where are you based?
BE - Belgium
Please indicate if you are active on the (you can choose several options)
local market
✓ regional market
☑ EU market
✓ non-EU market
worldwide market
not applicable
Existing initiatives, labels, schemes

This section builds on the findings of the mapping study and it aims at assuring the relevance of the identified initiatives and complement the study with your input.

Q1. There are many initiatives (in place or under development) which define safety, environmental performance and /or sustainability criteria, which cover different types of products and have been identified in the Commission mapping study. The initiatives addressed here are linked to regulation or a certification scheme. How familiar are you with the initiatives listed below? Have you been involved in the criteria definition process or are you using any of them?

	I am very familiar and, if applicable, my organisation has (a) product(s) complying with it / which will need to comply	I am very familiar and I have been involved in the process of criteria definition	I am familiar with it	I am not at all familiar
Ecodesign [1]	•	0	0	0
Energy label	•	0	0	0
Sustainable product policy framework [2]	•	©	•	0
Substantiating Green Claims [3]	•	0	0	0
Sustainable batteries [4]	•	0	0	0
EU Ecolabel	•	0	0	0
EU Green Public Procurement [6]	•	©	0	0
Sustainable Finance [7]	•	0	0	0
TCO Certified [8]	©	•	0	0
Nordic Swan	©	•	0	0
Blue Angel	©	•	0	0
Natureplus [11]	•	•	0	0
OEKO-TEX [12]	©	•	0	0
Green Seal	©	0	0	•
Green Screen for Safer Chemicals [14]	©	•	0	0

References:

 $\hbox{[1]} https://ec.europa.eu/growth/industry/sustainability/product-policy-and-ecodesign_en$

[2]https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12567-Sustainable-products-initiative_en

[3]https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12511-Environmental-performance-of-products-&-businesses-substantiating-claims_en

[4]https://ec.europa.eu/environment/topics/waste-and-recycling/batteries-and-accumulators_en

[5]https://ec.europa.eu/environment/ecolabel/products-groups-and-criteria.html

[6]https://ec.europa.eu/environment/gpp/eu_gpp_criteria_en.htm

[7]https://ec.europa.eu/info/business-economy-euro/banking-and-finance/sustainable-finance/overview-sustainable-finance en

[8]https://tcocertified.com/

[9]www.nordic-ecolabel.org

[10]www.blauer-engel.de/en

[11]www.natureplus.org/

[12]www.oeko-tex.com/en/

[13] https://greenseal.org/

[14]https://www.greenscreenchemicals.org/

Q2. Do you think that the Safe and Sustainable by Design concept and criteria for chemicals and materials can be useful to any of the following initiative(s)?

	Not at all relevant	Somewhat relevant	Very relevant	l don't know
Ecodesign	0	•	0	0
Energy label	•	0	0	0
Sustainable product policy framework	0	•	0	0
Substantiating Green Claims [15]	0	•	0	0
Sustainable batteries [16]	0	•	0	0
EU Ecolabel	0	•	0	0
EU Green Public Procurement	0	•	0	0
Sustainable Finance	0	•	0	0
TCO Certified	0	•	0	0
Nordic Swan	0	0	0	•
Blue Angel	0	0	0	•
Natureplus	0	0	0	•
OEKO-TEX	0	0	0	•
Green Seal	0	0	0	•
Green Screen for Safer Chemicals	0	0	0	•

References:

[15]https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12511-Environmental-performance-of-products-&-businesses-substantiating-claims_en

[16]https://ec.europa.eu/environment/topics/waste-and-recycling/batteries-and-accumulators_en

Q3. If you are aware of another regulation, label or certification not listed above, please mention it and explain why you think this might be relevant for the development of Safe and Sustainable by Design criteria for chemicals and materials.

The EPEAT (Electronic Product Environmental Assessment Tool) Ecolabel – managed by the Global Electronics Council (GEC) - is a leading global Type 1 Ecolabel covering products and services from the technology sector. GEC has met the requirements of ISO 14024, which is necessary for managing a Type 1 Ecolabel. EPEAT defines life-cycle based criteria for a range of product categories, including photovoltaic modules and inverters, computers and displays, imaging equipment, mobile phones, network equipment, servers, and televisions. Management of substances is a key criterion for some of these categories and includes both mandatory and optional requirements covering declarable substances in products and manufacturing, assessment of alternatives, disclosure and substitution of SVHCs, and GWP gas emissions during manufacturing.

Other examples include: The A.I.S.E. Charter for Sustainable Cleaning (a voluntary sector initiative with label and certification aspects); the Detergents Regulation (criteria and methods for biodegradability of surfactants).

Please upload any supporting document for your answer in Q3

Q4. The mapping study identifies several international initiatives that provide policy principles, practical guidance, methods and tools to assess sustainability, without being linked to legislation, labelling or certification scheme. Are you familiar with any of these initiatives?

	Yes	No
United Nations Environment Assembly (UNEA) Framework Manual on Green and Sustainable Chemistry [17]	•	0
OECD work on environmentally benign chemicals or "Sustainable Chemistry" [18]	•	0
OECD Guide on safer chemicals alternatives [19]	•	0
The International Sustainable Chemistry Collaborative Centre (ISC3) [20]	•	0
Guide on Sustainable Chemicals published by the German Environmental Agency [21]	•	0
The Chemical Footprint Project [22]	•	0
The Sustainable Chemistry Research and Development Act of 2019 (US) [23]	•	0
The Green Chemistry Initiative (by the California Environmental Protection Agency) [24]	•	0

References:

[18]http://www.oecd.org/env/ehs/risk-management/sustainablechemistry.htm

[19]www.oecd.org/chemicalsafety/risk-management/guidance-on-key-considerations-for-the-identification-andselection-of-safer-chemicalsalternatives.pdf

[20]https://www.isc3.org/fileadmin/user_upload/Documentations_Report_PDFs/ISC3_Sustainable_Chemistry_key_characteristics_20210113. pdf

[21] https://www.umweltbundesamt.de/en/publikationen/guide-on-sustainable-chemicals.

[22]https://www.chemicalfootprint.org/

[23] https://www.congress.gov/bill/116th-congress/house-bill/2051/text.

[24] https://calepa.ca.gov/about/

Q5. Which of those initiatives can provide the most relevant input for the Safe and Sustainable by Design concept and criteria for chemicals and materials?

	Not at all relevant	Somewhat relevant	Very relevant	I don' t know
United Nations Environment Assembly (UNEA) Framework Manual on Green and Sustainable Chemistry	0	•	0	0
OECD work on environmentally benign chemicals or "Sustainable Chemistry"	0	•	0	0
OECD Guide on safer chemicals alternatives	0	•	0	0
The International Sustainable Chemistry Collaborative Centre (ISC3)	0	•	0	0
German Environmental Agency published Guide on Sustainable Chemicals	0	•	0	0
The Chemical Footprint Project	0	•	0	0
The Sustainable Chemistry Research and Development Act of 2019 (US)	0	•	0	0
The Green Chemistry Initiative (by the California Environmental Protection Agency)	0	•	0	0

Q6. If you are aware of another initiative, not included here, please mention it and explain why you think this might be relevant for the Safe and Sustainable by Design concept and criteria for chemicals and materials.

Please provide a reference to the initiative and information as for example on:

- Scope of application and main aim of the initiative
- Life-cycle stage covered
- Criteria areas covered related to safety and sustainability (environmental, safety, circular, governance, economic and social)
- Validation scheme (if any)

2000 character(s) maximum	
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As mentioned above, EPEAT defines life-cycle based criteria for a range of product categories, including photovoltaic modules and inverters, computers and displays, imaging equipment, mobile phones, network equipment, servers, and televisions. EPEAT criteria cover several stages in the life-cycle of products, including management of substances, material use (incl. recycled content), energy efficiency and water use, end of life management and design for recycling, product packaging, and corporate responsibility. Manufacturers and/or brands interested in getting their products registered under EPEAT must choose a Conformity Assurance Body (CAB). CABs are the third party organizations that work with manufacturers to verify that their product meet the EPEAT criteria as claimed. The EPEAT ecolabel ensures the veracity of EPEAT-registered products through an ongoing surveillance process known as Continuous Monitoring. Continuous Monitoring activities occur throughout the year and test the ability of Participating Manufacturers to prove conformance with EPEAT criteria on an ongoing basis. All EPEAT-registered products in all product categories and all Participating Manufacturers are subject to Continuous Monitoring. A key clarification to make here is that EPEAT is a voluntary initiative using a voluntary consensus process of openness, balance, due processes, appeals process and consensus. A number of companies are already signed up to these types of voluntary schemes and as such we recommend that the main aim of the SSBD criteria should involve incentivising companies to sign up to follow these voluntary schemes rather than mandating companies to do so.

Another example, as discussed above, is the A.I.S.E. Charter for Sustainable Cleaning.

Please upload any supporting document for your answer in Q7

Policy Goals

The objective of this section is to collect your views to better frame the purpose of the Safe and Sustainable by Design

Q7. In your opinion, what should be the focus of the Safe and Sustainable by Design criteria? Please rank your answers by giving 5 stars the most relevant options and 1 star to the least relevant.

Phasing out the most harmful chemicals	
Developing safe and sustainable alternatives to substitute/minimise the use of substances of concern and avoid regrettable substitution	
Sustainable sourcing of resources and feedstock	☆ ☆☆ ☆☆
	☆ ☆

Minimising the impact on biodiversity and ecosystems during production and use of chemicals and materials	
Minimising the impact on climate during production and use of chemicals and materials	☆ ☆☆ ☆☆
Enabling non-toxic circularity (resource efficiency, avoidance of substances of concern in waste and recycled materials)	
Fostering innovation and allow the green industrial transition, including by rewarding frontrunners	☆ ☆☆ ☆☆
Predicting and evaluating the ability of newly designed chemicals, substances and materials to perform in a safer and more sustainable way compared with chemicals and materials currently used	
Harmonise criteria on the safety and sustainability of chemicals and materials and the products in which they are used	
Other	☆ ☆☆ ☆☆

If other, please specify

Several of the objectives outlined above are based on loose definitions that are not currently enshrined in EU legislation (e.g. "most harmful chemicals", "substances of concern", "non-toxic circularity"). Successful implementation of safe and sustainable by design criteria cannot be achieved in the absence of regulatory certainty and predictability, which in turn is impossible in the absence of firm definitions. We strongly encourage the European Commission to refer, in this context, to well-established regulatory lists such as the REACH Candidate List of Substances of Very High Concern.

Priority sectors

The aim of this section is to collect input to identify and examine which are the most relevant sectors or applications for which Safe and Sustainable by Design criteria for chemicals and materials should be developed first. Some examples listed in the Chemicals Strategy for Sustainability are products for

consumers (among others, *food contact materials, toys, childcare articles, cosmetics, detergents, furniture and textiles*), others are construction materials, innovations for low-carbon mobility, batteries, wind turbines, or renewable energy sources.

Q8. Which are the most relevant aspects to consider in order to prioritise sectors or applications? Some exam could be environmental impact due to chemicals and materials used in this sector/application, potential for	ples
improvement in terms of safety and sustainability, large production volumes, no existing regulations, etc.	
2000 character(s) maximum	
Q9. Which application sectors should be considered as a priority for Safe and Sustainable by Design criteria f	
chemicals and materials? Please name up to five application sectors in the ranking order of most important to important, and briefly motivate your choice. If possible, provide supporting information.	least
2000 character(s) maximum	

Please upload any supporting document for your answer to Q8 or Q9

Implementation options

Q10. There are different options that could be used to implement Safe and Sustainable by Design criteria for chemicals and materials. Please rate, in your view, which would be the most effective option, or combination of them, to achieve higher impact in this transition? Being 5 stars the most relevant.

By recommending the use of Safe and Sustainable by Design criteria in best practices for industry	
By developing a certification scheme on Safe and Sustainable by Design	
By integrating Safe and Sustainable by Design criteria for chemicals and materials into existing labeling of products or other means of information communication on products' sustainability	
By promoting the development and use of alternative chemicals based on Safe and Sustainable by Design criteria, e.g. through ongoing initiatives	
	**

By using the Safe and Sustainable by Design criteria to direct funding for R&I into new chemicals, substances, materials and products and evaluate project proposals	
By regulating the use of chemicals based on Safe and Sustainable by Design criteria	
Other	

If other, please specify

1000 character(s) maximum

The EU has the most comprehensive regulatory framework for chemicals management globally. Safe and sustainable by design criteria should not in our view be used as a basis for additional regulatory instruments for chemicals risk management. This would risk leading to duplication and inconsistencies with existing legislation such as REACH, CLP and sectoral legislation. SSBD criteria should be used to incentivize companies through rewarding frontrunners for their efforts, rather than duplicating these existing processes. Manufacturers often face complex trade-offs when considering the performance of their products across various dimensions of sustainability (chemical content, resource use, carbon footprint, circularity). These are often not adequately taken into account in existing chemicals legislation. SSBD criteria could serve as an opportunity to address these trade-offs as part of a single framework guiding innovation for sustainability for chemical products across the EU.

Contact

RTD-SUSTAINABLE-BY-DESIGN@ec.europa.eu