

SSbD for chemicals and materials reporting template (version 1.0)

Explanatory notes

- This template is related to the testing phase and reporting exercise announced in the Commission Recommendation establishing a European assessment framework for ‘safe and sustainable by design’ chemicals and materials.
- The reporting template will be used to collect feedback from stakeholders during the testing phase of the ‘safe and sustainable by design’ framework’s feasibility and applicability.
- After analysis, the input collected will be used in the context of the SSbD framework revision and of the definition of SSbD criteria for chemicals and materials.
- This document is an initial version of the SSbD reporting template, aiming to inform the stakeholders (users of the SSbD framework such as industry, including SMEs, academia, research and technology organisations, Member States organisations) on the structure of the template to be used for input and the type of information that may be requested during the testing period.
- A more functional revised version of the template will be shared with stakeholders at a later stage, when clear and concise input will be requested.
- The template will contain several sections with the aim to collect essential information regarding the information provider, the chemicals or materials assessed, details regarding the applied SSbD principles, safety and sustainability assessment steps, as well as suggestions for SSbD criteria for chemicals and materials:
 - I. General information
 - II. Promoting the SSbD framework and R&I activities
 - III. SSbD Framework input
 - Information on the chemical or material assessed
 - SSbD principles
 - Safety and sustainability assessment

I. General information

Information requested	Detailed information (examples)
<i>Identification of the respondent</i>	<ul style="list-style-type: none"> - Organisation name - Organisation type - Sector - Contact (name, e-mail, etc.) - ...
<i>Initiative related to the input provided</i>	<ul style="list-style-type: none"> - (e.g. performed under an EU funded project, industry initiative, national programme, own initiative)
<i>Agreement to use information and data provided for further analysis and public dissemination (Contact information will not be shared publicly)</i>	<ul style="list-style-type: none"> - Yes/No

<i>Willingness to be contacted individually by the Commission for potential clarification or provision of more details</i>	- Yes/No
<i>How are you using the SSbD framework?</i>	- promoting it in R&I programmes and policies – please complete section II - Applying the framework to a use case – if yes please complete section III

EXAMPLE

II. Promoting the SSbD framework and R&I activities

General

Information requested	Detailed information (examples)
<i>Are you promoting the SSbD framework in your national, international or industrial programme?</i>	<ul style="list-style-type: none"> - Yes/No - In which programme? - Is the programme also promoting the availability of FAIR data resulting from the framework application?
<i>Do you have R&I policies/strategies referencing the SSbD framework?</i>	<ul style="list-style-type: none"> - Yes/No - Which?
<i>Do you have plans to support the development of educational or professional curricula to ensure that the skills required to implement the SSbD framework are taught.</i>	<ul style="list-style-type: none"> - Yes/No - Links
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Tools, methods and data for assessing safety and sustainability

Information requested	Detailed information (examples)
<i>Are you supporting the development of new safety and/or sustainability assessment methods, models and tools?</i>	<ul style="list-style-type: none"> - Yes/No - Which programme?
<i>Are you engaged in developing new safety and/or sustainability assessment methods, models and tools?</i>	<ul style="list-style-type: none"> - For which assessment step? - Which method/tools/model? - Supporting FAIR principles?
<i>Do you have activities related to the increase of the availability of FAIR data for safety and sustainability assessment?</i>	<ul style="list-style-type: none"> - Yes/No - Provide details if yes
<i>Do you have FAIR data useful for safety and/or sustainability assessment?</i>	<ul style="list-style-type: none"> - Yes/No - Provide details if yes
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III. SSbD Framework input

Information on the chemical or material assessed

Information requested	Detailed information (examples)
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General information on the chemical or material assessed	<ul style="list-style-type: none"> - Identifiers - Structure - Physico-chemical properties - Description of the application/use - Links to ‘positive lists of authorised safe chemicals’¹ or ‘lists of restricted and hazardous chemicals’¹, if applicable - ...
Information regarding the life cycle stage of the chemical or material assessed	<ul style="list-style-type: none"> - Business idea - R&D - Production - Use phase - End of life
Information on the Technology Readiness Level (TRL)²	<ul style="list-style-type: none"> - TRL 1 (basic principles observed) - [...] - TRL 9 (actual system proven in operational environment)
Case study description	<ul style="list-style-type: none"> - ... -

SSbD principles for chemicals and materials

Information requested	Detailed information (examples)
Indicate the SSbD principles applied, actions performed and indicators used during the design phase of the chemical or material	<ul style="list-style-type: none"> - Material efficiency - [...] - Consider the whole life cycle
Suggestions regarding the SSbD design principles – challenges encountered, ideas for improvements	

Safety and sustainability assessment

Information requested	Detailed information per assessment step (examples)
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¹ E.g., positive lists for cosmetic products, biocidal substances, plant protection products or food contact materials; See ‘Section 4. Safety Dimension’ in Caldeira et al. (2022). *Safe and sustainable by design chemicals and materials: review of safety and sustainability dimensions, aspects, methods, indicators, and tools*. In Publications Office of the European Union. <https://doi.org/10.2760/879069>

² https://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/annexes/h2020-wp1415-annex-g-trl_en.pdf

Information provided for each of the assessment steps (e.g. when applicable and depending on the specificity of each step)	<ul style="list-style-type: none"> - Aspects assessed - Indicators - Methodology and tools applied - Challenges
SSbD evaluation	<ul style="list-style-type: none"> - Conclusion for each step - Overall evaluation
Information on data used for the assessment	<ul style="list-style-type: none"> - Type of data (e.g. <i>computational modelling/in silico, in vitro, in vivo, life cycle inventory data</i>) - Source of data - License for data - Quality criteria - Information on FAIR data - Links to information provided in a different context (<i>regulatory dossier, labelling, etc.</i>) - Data files - References
Suggestions regarding the assessment steps and evaluation procedure	
Suggestion regarding SSbD criteria definition for each step	

EXAM