

Annotated template for an ES for communication - Example for consumer use

The template below is intended to help downstream users to understand the format and type of information they can expect in the ES they receive, when the substance is intended for consumer use. Registrants may also find it useful when building the ES for communication. Please note:

- Explanations of typical content are in normal font and examples are in blue italics.
- The examples are mainly taken from the *ES illustrative example*. They are not intended to be consistent with each other, but serve to illustrate the different sections.
- All sub-headings may not be relevant for all cases.
- This template applies to the ES of a substance. It may not always be appropriate for mixtures.
- Consumers do not receive SDS/exposure scenarios. The ES for consumer users are addressed to formulators so that they can use the information in the design of consumer products for consumers. For instance, information on the concentration, amount and release area allows a formulator to check and compare the conditions of use with the design of his product and the related technical instructions.

ES TITLE [SHORT TITLE]¹

The Short Title can be used to build a Table of Contents of all the annexed ESs to facilitate the selection of relevant ES by the recipient.

Example: ES 5: Consumer use. Coatings and paints, thinners, paint removers

1. TITLE SECTION

The title section gives the use name and an overview of all the tasks/activities covered by the ES.

ES/use name	A short description of the scope of the ES may be given in this section. <i>Example: Consumer application of coatings and paints.</i>
Scope	The title includes a comprehensive list of all the activities (or "contributing scenarios (CS)") covered by the ES using the Use descriptor system as a basis.

Example:

ENVIRONMENT

CS 1: Use leading to inclusion into/onto matrix

ERC 8f, ERC 8c

CONSUMER

CS 2: Waterborne wall paint; Brush or roller

PC 9a

CS 3: Waterborne wall paint; Brush or roller

PC 9a

2. CONDITIONS OF USE AFFECTING EXPOSURE

¹ The structure and composition of the Short Title is currently under discussion in the context of the Exchange Network on Exposure Scenarios (ENES). See relevant presentations at:

<http://echa.europa.eu/about-us/exchange-network-on-exposure-scenarios>

This section is the core of the ES as it includes the Operational Conditions (OCs) and Risk Management Measures (RMMs) for each contributing scenario. It is therefore usually structured into sub-headings for each activity/contributing scenario.

2.1 ENVIRONMENT CONTRIBUTING SCENARIO:

The block below is repeated for each CS, generally starting with the CS title.

Product (article) characteristics

This section includes information on the product affecting environmental exposure.

Example: Supply the product in a packaging that does not require cleaning/disposal.

Amount used, frequency and duration of use (or from service life)

This section includes information on any limitations such as amount per event. This section is not applicable to consumer uses and will normally not be filled in / not provided, that is why no example is included.

Conditions and measures related to treatment of waste (including article waste)

Advice is given here on the appropriate disposal route or any need for special (pre-)treatment for the waste generated by consumer uses.

Example: Dedicated recollection infrastructure required for waste.

Other conditions affecting environmental exposure

This section includes information on other conditions assumed for consumer use such as indoor/outdoor use expected.

Example: Assumes that wastewaters are treated in municipal wastewater plant.

Indoor use.

2.2 CONSUMER CONTRIBUTING SCENARIO

The block below is repeated for each CS, generally starting with the CS title.

Product (article) characteristics

This section normally includes the maximum concentration of the substance.

Example: Covers concentrations up to 1%.

Amount used, frequency and duration of use/exposure

This section includes the limitations in terms of duration of the particular task covered in the contributing scenario, or the amount of product to be used each time the task is carried out i.e. the amount indicated corresponds to maximum amount per event.

Example: Covers use of product up to 3750 grams/event.

Measures related to information and behavioural advice to consumers including personal protection and hygiene

This section includes safety advice to be conveyed to consumers in order to control exposure. This may include instructions for use. It should be noted that personal protective measures are usually not expected for consumer uses.

Example: Keep out of the reach of children.

Other conditions affecting consumers exposure

This section includes information on other conditions assumed for consumer use that have been used in the assessment.

Example: One event per day. Release area = 15 m² per event

3. EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE

This section is relevant to end users if they are undertaking a more detailed review of the ES. The key information with instructions for safe use is in Section 2. It includes information on the estimation methods or tools used in the assessment. This section typically includes a series of tables with values for each contributing scenario.

3.1 ENVIRONMENT CONTRIBUTING SCENARIO

The block below is repeated for each CS, generally starting with the CS title.

Environmental release and exposure	The following information is given for each release route (Water/Air/Soil): Release rate (kg/day) and Release estimation method. Information is also given on estimated exposure values per protection target, and the corresponding calculated RCR for quantitative risk characterisation.		
	<i>Example:</i>		
	RELEASE ROUTE	RELEASE RATE	RELEASE ESTIMATION METHOD
	<i>Water</i>	<i>2.75E-4 kg/day</i>	<i>ERC based</i>
	<i>Air</i>	<i>0.0014 kg/day</i>	<i>ERC based</i>
	<i>Soil</i>	<i>1.375E-4 kg/day</i>	<i>ERC based</i>
	PROTECTION TARGET	EXPOSURE ESTIMATE (BASED ON EUSES 2.1.2)	RCR
	<i>Freshwater</i>	<i>1.35E-5 mg/L</i>	<i>< 0.01</i>
	<i>Sediment (freshwater)</i>	<i>0.001 mg/kg dw</i>	<i>< 0.01</i>
	<i>Marine water</i>	<i>1.39E-6 mg/L</i>	<i>< 0.01</i>
<i>Sediment (marine water)</i>	<i>1.13E-4 mg/kg dw</i>	<i>< 0.01</i>	
<i>Sewage treatment plant</i>	<i>1.07E-4 mg/L</i>	<i>< 0.01</i>	
<i>Agricultural soil</i>	<i>7E-5 mg/kg dw</i>	<i>< 0.01</i>	
<i>Man via Environment - Inhalation</i>	<i>6.31E-7 mg/m</i>	<i>< 0.01</i>	
<i>Man via Environment - Oral</i>	<i>9.95E-5 mg/kg bw/day</i>	<i>< 0.01</i>	

3.2 CONSUMER CONTRIBUTING SCENARIO

The block below is repeated for each CS, generally starting with the CS title.

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Consumer exposure	The following information is given for each exposure route (inhalation, dermal, combined routes...)		
	<i>Example:</i>		
	ROUTE OF EXPOSURE AND TYPE OF EFFECTS	EXPOSURE ESTIMATE	RCR
	<i>Inhalation, systemic, long-term</i>	<i>0.3 mg/m³ (External Tool: Consexpo 4.1)</i>	<i>0.05</i>
	<i>Dermal, systemic, long-term</i>	<i>0.6 mg/kg bw/day (External Tool: Consexpo 4.1)</i>	<i>0.17</i>
<i>Oral, systemic, long-term</i>	<i>0 mg/kg bw/day (External Tool: Consexpo 4.1)</i>	<i>< 0.01</i>	
<i>Combined routes, systemic, long-term (sum of the above)</i>		<i>0.22</i>	

4. GUIDANCE TO DU TO EVALUATE WHETHER HE WORKS INSIDE THE BOUNDARIES SET BY THE ES

This section may include advice to the downstream users on how they can verify that their customer use is covered by the ES.