Annotated template for an ES for communication - Example for professional 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 professional 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.

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 4: Use by professional worker. 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.
	Example: Professional application of coatings and paints.
Scope	This row includes a comprehensive list of all the tasks/activities (or "contributing scenarios (CS)") covered by the ES. It is based on the Use Descriptor System.

Example:

ENVIRONMENT

ERC 8f, ERC 8c					
WORKER					
PROC 8a					
PROC 10					
PROC 11					

¹The 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

2. CONDITIONS OF USE AFFECTING EXPOSURE

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 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 normally includes the maximum amount per site in [tonnes/day] or [tonnes/year]. This section is not applicable to professional uses and will normally not be filled in / not provided, that is why no example is included.

Technical and organisational conditions and measures

This section may include different measures that aim to prevent losses from processes and/or clean up the streams (water or air) leaving the processes on site.

Example: Prevent emission of overspray by collecting in case of outdoor applications.

Conditions and measures related to sewage treatment plant

Advice is given here on the specific type of treatment plant required or the minimum capacity. This section is normally not applicable to professional 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.

Example: Dispose of residues from cleaning of containers or equipment as hazardous waste for incineration.

Other conditions affecting environmental exposure

Other operational conditions that have been used in the assessment can be indicated here. This section is normally not applicable to professional uses and will normally not be filled in / not provided, that is why no example is included.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

This section includes use specific measures expected to reduce the predicted emissions. This information is not the outcome of the risk assessment and therefore it is not mandatory.

Example: Clean up spills immediately.

2.2 WORKER CONTRIBUTING SCENARIO

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

Product characteristics

Physical form of the product [gas/liquid/solid]. For solids, the dustiness may be specified, for liquids the vapour pressure. The concentration of the substance in a product can also be indicated here.

Example: Limit the substance content in the product to 5 %.

Amount used (or contained in articles), frequency and duration of use/exposure

This section includes the limitations in terms of duration of the particular task covered in the contributing scenario.

Example: Avoid carrying out activities involving exposure for more than 15 minutes. The duration specified is within the context of an eight hour work day.

Technical and organisational conditions and measures

The equipment-related aspects are indicated here, for example the need to have a closed process or the details of the necessary ventilation.

Example: Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Conditions and measures related to personal protection, hygiene and health evaluation

This section includes elements related to personal protective equipment (PPE) for the workers such as the use of respiratory protection, or the use of dermal protective clothes such as gloves. This is often indicated in a generic way and gives reference to the SDS where more specific advice on the PPE is given (according to Annex II of the REACH Regulation Section 8.2.2).

Health surveillance programmes to be put in place to prevent occupational skin diseases can also be included here. This may be the case for substances that may cause skin sensitisation.

Example: Wear suitable gloves tested to EN374. For further specification, refer to Section 8 of the SDS.

Other conditions affecting workers exposure

Other operational conditions that have been used in the assessment can be indicated here.

Example: Indoor use.

Assumes process temperature up to 40 °C.

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply

This section includes some good practice information that the supplier chooses to include in addition to the obligatory measures, as advice to the downstream user. This information is not the outcome of the risk assessment and therefore it is not mandatory.

Example: Use suitable eye protection where splashes can occur.

3. EXPOSURE ESTIMATION AND REFERENCE TO ITS SOURCE

This section is not relevant to end users unless they are undertaking a more detailed review of the ES². 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 REPEATABLE BLOCK FOR EACH ENVIRONMENT CONTRIBUTING SCENARIO

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

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.

Example:

RELEASE ROUTE	RELEASE RATE	RELEASE ESTIMATION METHOD
Water	2.75E-4 kg/day	ERC based
Air	0.004 kg/day	ERC based
Soil	1.375E-4 kg/day	ERC based

Environmental release and exposure

PROTECTION TARGET	EXPOSURE ESTIMATE (BASED ON EUSES 2.1.2)	RCR
Freshwater	1.35E-5 mg/L	< 0.01
Sediment (freshwater)	0.001 mg/kg dw	< 0.01
Marine water	1.39E-6 mg/L	< 0.01
Sediment (marine water)	1.13E-4 mg/kg dw	< 0.01
Sewage treatment plant	1.07E-4 mg/L	< 0.01
Agricultural soil	7E-5 mg/kg dw	< 0.01
Man via Environment - Inhalation	6.31E-7 mg/m³	< 0.01
Man via Environment - Oral	9.95E-5 mg/kg bw/day	< 0.01

² This section may not be included if it is not expected to contain any relevant information for the DU.

3.2 WORKER CONTRIBUTING SCENARIO

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

The following information is given for each exposure route (inhalation, dermal, combined routes...)

Example:

Worker exposure

ROUTE OF EXPOSURE AND TYPE OF EFFECTS	EXPOSURE ESTIMATE	RCR
Inhalation, systemic, long-term	6.25 mg/m³ (ECETOC TRA Worker 3.0)	0.25
Dermal, systemic, long-term	2.74 mg/kg bw/day (ECETOC TRA Worker 3.0)	0.39
Combined routes, systemic, long-term (sum of the above)		0.64

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

This section includes advice to the downstream users on how they can verify that their use is covered by the ES, if their conditions of use don't exactly match the ES (termed "Scaling"). This information must include:

- Scaling method
- Scalable parameters
- Boundaries of scaling

Example:

Scaling method: Exposure estimation tool used: ECETOC TRA v3.

Scalable Parameters: exposure duration and maximum concentration. All other parameters have to be taken directly from the exposure scenario provided.

Boundaries of Scaling: RCRs not to be exceeded are given in Section 3 above.

For Scaling instructions please go to the following website: http://companyX-reach/scaling/3

³ Fictional website address