

## **Chemical Safety Assessment and Chesar**

ECHA's seventh Stakeholders Day 23 May 2012

Andreas Ahrens Computational Assessment Unit ECHA





### Key messages to registrants

- Make sure that you fully understand the life cycle of your substance
- Be transparent in your CSR and justify deviations from standard methodology
- Cooperate with downstream users for realistic, harmonised and useful use descriptions and exposure scenarios
- Do not consider your registration dossier as a final product once submitted; be prepared to update your CSR
- As a member registrant make sure that you understand the joint CSR; implement and communicate the respective condition of use

### **Overview**

- The purpose of the Chemical Safety Assessment
- Advice for registrants
- How Chesar can support registrants
- More support from ECHA











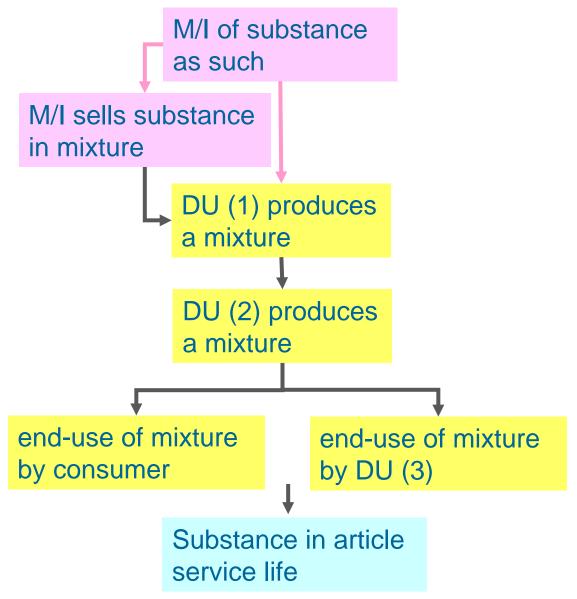


### CSA in a nutshell

- Determine the hazards based on the information required for registration of the substance
- Describe the conditions of safe use (operational conditions and risk management)
  - => set of exposure scenarios addressing all identified uses
- Estimate the expected exposure under these conditions
- Compare the expected exposure with the hazards
- Conclude whether control of risk is demonstrated; refine the assessment, if needed;
- Annex I of REACH sets out the general provisions for the assessment



### **ECHA** Whole life cycle to be covered





### When is a CSA required?

- Required if the substance is manufactured or imported at 10 tonnes or more per year
- The CSA includes exposure assessment and risk characterisation for all the identified hazards
  - if one of the criteria is met to classify the substance as hazardous, or
  - if the substance is to be treated as PBT/vPvB, or
  - if information requirements are adapted based on exposure considerations according to Annex XI (3)
- Identified hazards = adverse effects observed based on guideline studies (or other adequate information)



### Advice to registrants (1)

- Make sure that you fully understand the life cycle of your substance
- Provide a transparent hazard and exposure assessment, justify deviations from standard methodology.
- Cooperate with DUs for realistic, harmonised and useful use descriptions and exposure scenarios.
  - Describe the uses in concrete terms. Clearly define which processes and activities are covered per exposure scenario. Use descriptors alone are not enough.
  - Communicate exposure scenarios to your customers that are practically useful for them.





### Advice to registrants (2)

- Make conditions of use for environmental assessment more explicit
- Coordinate among the registrants of a substance to ensure transparent CSRs
- Ensure that your CSR is consistent with the Technical Dossier
- Be aware that the CSRs will be used to inform regulatory processes by ECHA and Member States, e.g. prioritisation for substance evaluation; selection of substances for authorisation



### Advice to registrants (3)

- Do not consider your registration dossier as a final product once submitted
  - Ensure that structures and processes are in place to update the CSR after registration
  - Proactively update your dossiers when new information on hazards or uses becomes available
  - Do not await the outcome of potential compliance checks improve the quality of the dossiers on your own initiative
  - Further compliance checks will be conducted and results will be communicated in a generic form
  - Be aware that in the long run (not before 2014) all CSRs will be checked for technical completeness

# How can Chesar support registrants?













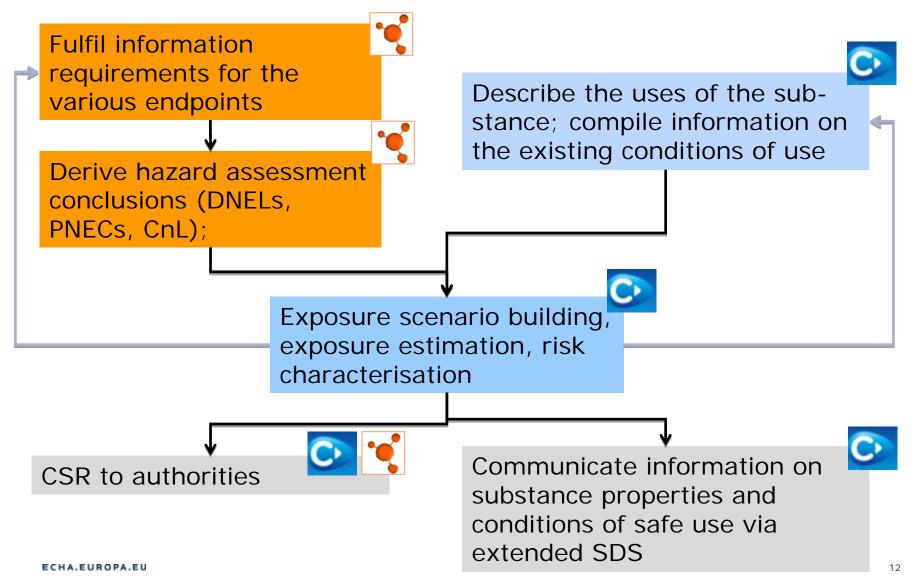


#### What is Chesar?

- IT tool developed by ECHA, first release in May 2010:
- supports registrants to prepare, store (in a database) and update the Chemical Safety Assessment (CSA)
- facilitates the re-use of CSA building blocks generated in the single Chesar instance or imported from external sources (e.g. websites of industry organisations).
- enables automated generation of the Chemical Safety Report (CSR) and the exposure scenario (ES) for communication directly from the assessment.

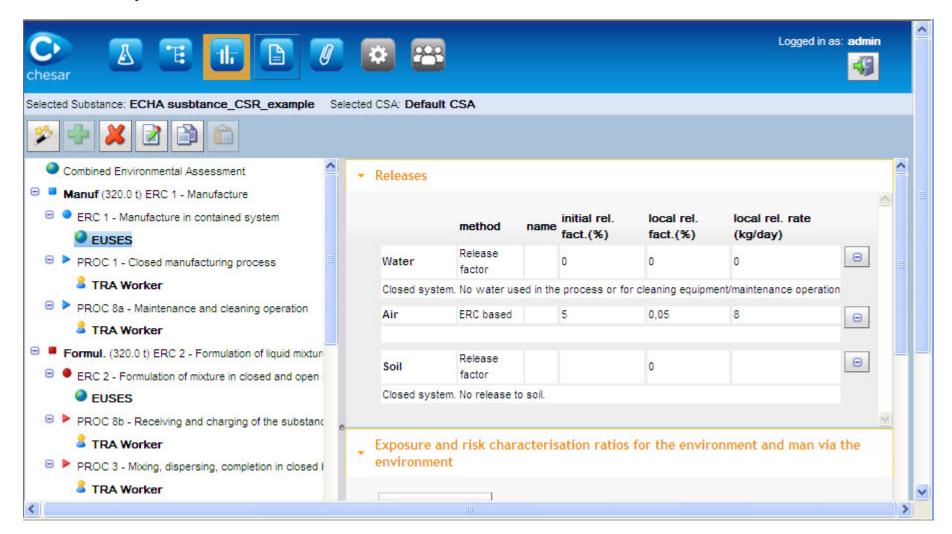


### **Assessment workflow**





### Example: Release estimation in Chesar



ECHA.EUROPA.EU 5/23/2012

13



### Important key features of Chesar

- Supports consistency of the workflow from substance properties to risk characterisation
- Supports consistency between CSR and the information communicated to the downstream users
- Enables the re-use of CSA elements across substances
- Allows IT exchange between Chesar, IUCLID and companies' EHS systems (supports the EScomXML standard)



### Chesar 2 – release plan (1)

- Chesar 2.0 -> end of June 2012. Includes the functionalities:
  - for carrying out chemical safety assessments (CSAs) based on a IUCLID 5.4 dataset
  - for generating chapter 9 and 10 of the chemical safety report (CSR).
- Update of CSR generator (IUCLID plug in)-> Q3 of 2012
  - export of information on uses from Chesar 2.0 to IUCLID
    5.4
  - generation of the full CSR by combining information from IUCLID 5.4 and Chesar 2.0.



### Chesar 2 – release plan (2)

- Chesar 2.1 -> early autumn 2012. Includes:
  - the exposure estimation tool for consumers developed by ECETOC (TRA consumer).
  - the standard phrases library (depending on the progress made in cooperation with CEFIC's EScom project)
- Chesar 2.2 -> late 2012 or beginning of 2013. This will add:
  - the generation of exposure scenarios for communication.

• The application will remain stable: each release of this release plan will only add new functionalities.

ECHA.EUROPA.EU 5/23/2012 1/2





### More support by ECHA

- ECHA is committed to maintaining and further developing IUCLID and Chesar to support efficient CSA and harmonised CSRs and ESs for communication
- ECHA, in cooperation with industry, has initiated the Exchange Network on Exposure Scenarios (ENES), aiming to share experience and solutions
- ECHA publishes illustrative examples of ESs and CSRs
- ECHA expects registrants to make their CSRs a source of good quality information
- ECHA welcomes the industry initiatives to create and maintain shared resources for efficient and harmonised CSA

ECHA.EUROPA.EU 5/23/2012

17



### Thank you.

Andreas Ahrens andreas.ahrens@echa.europa.eu

