

Using Chesar for the CSA

How does it work? What are the advantages?

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Webinar for registrants

CSA 1: Chemical Safety Assessment and Chesar





Overview

- The purpose of Chesar
- Assessment workflow and main functionalities
- Support to harmonisation, transparency, consistency and efficiency – selected key features
- How to learn more about Chesar?

Purpose of Chesar





What is Chesar?

- IT tool developed by ECHA
- supports registrants to prepare, store (in a database) and update the Chemical Safety Assessment (CSA)
- facilitates the re-use of CSA elements 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.
- => Efficiency, harmonisation, consistency

Assessment workflow and main functionalities







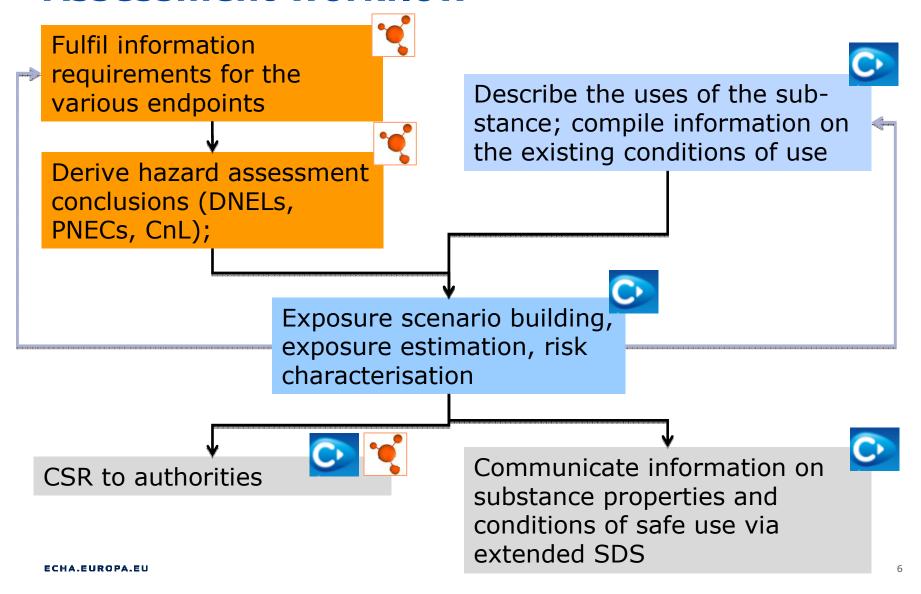








Assessment workflow

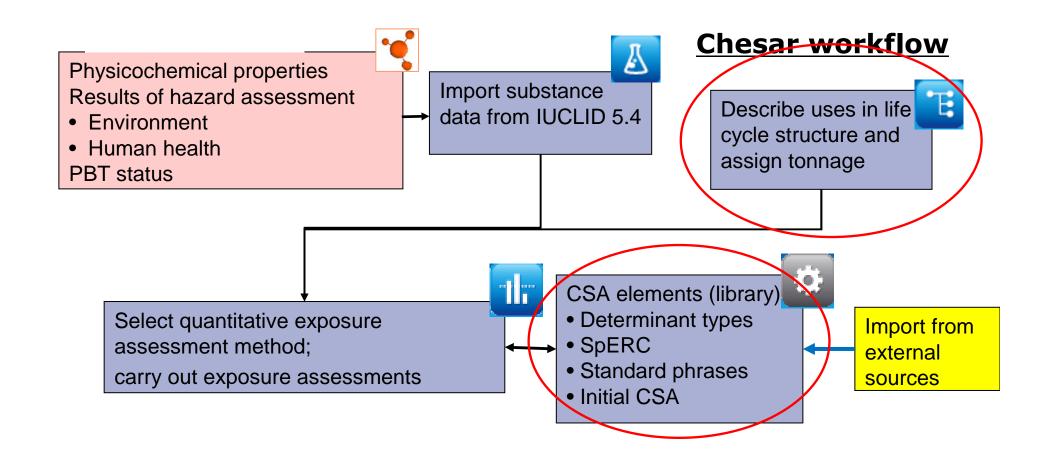




Organisation of Chesar



- 1. Manage substances
- 2. Reporting of uses
- 3. Manage assessment
- 4. ES building and CSR generation
- 5. Generation of ES for extended SDS
- 6. Administration tools
- 7. Users management





Chesar enables ... (1)

- Export/import of assessment elements from one substance to another
 - Re-use of a life cycle tree, when uses and markets are similar
 - Start from an **already existing assessment** when uses and conditions of use are similar (called "initial CSA" in Chesar terms)



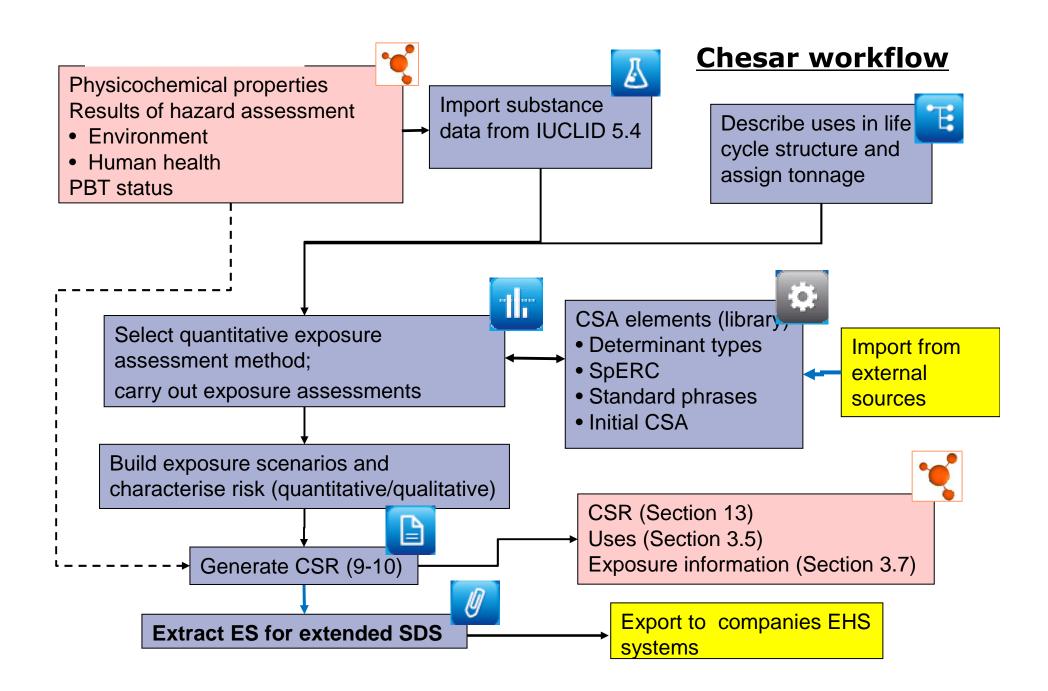
Chesar enables ... (2)

- The creation or import and storage of CSA elements in the Chesar user's own library
 - "Determinant types" define conditions of use (operational conditions or risk management measures) driving the exposure.
 - reported in the exposure scenario
 - input to exposure estimation tools when relevant
 - using the same determinant across several assessments facilitates harmonisation



Chesar enables ... (3)

- 2. "SpERC: typical conditions of use from an environmental perspective and related release estimates. SpERCs are developed by sector organisations.
- 3. **Standard phrases**: used to communicate conditions of safe use. A CEFIC led industry group works on a harmonised phrase catalogue and a corresponding electronic exchange standard (EScom XML).



Chesar supports

Harmonisation
Transparency
Consistency
Efficiency





Selected key features

- From substance properties to CSA
- Re-use of CSA elements across substances
- IT exchange between Chesar, IUCLID and companies' EHS systems
- Consistency between CSR and the information communicated to the downstream users



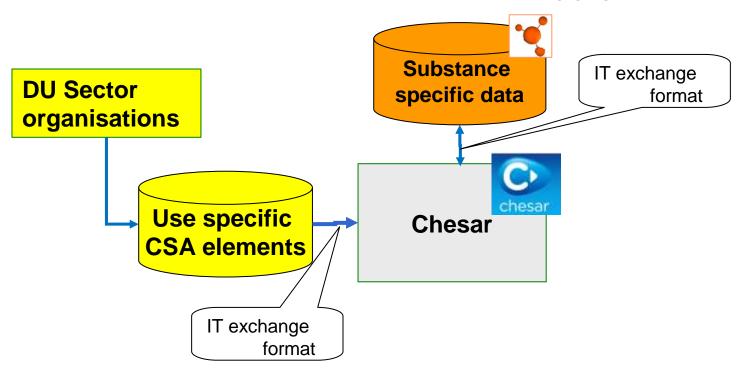
From substance properties to CSA

- Import of IUCLID data set to Chesar ensures consistency of data used for CSA
- Chesar systematically converts the conclusions on hazards documented in IUCLID (environment, workers, general population) into the required scope of exposure assessment and type of risk characterisation.
 - => Transparency and consistency of the assessment



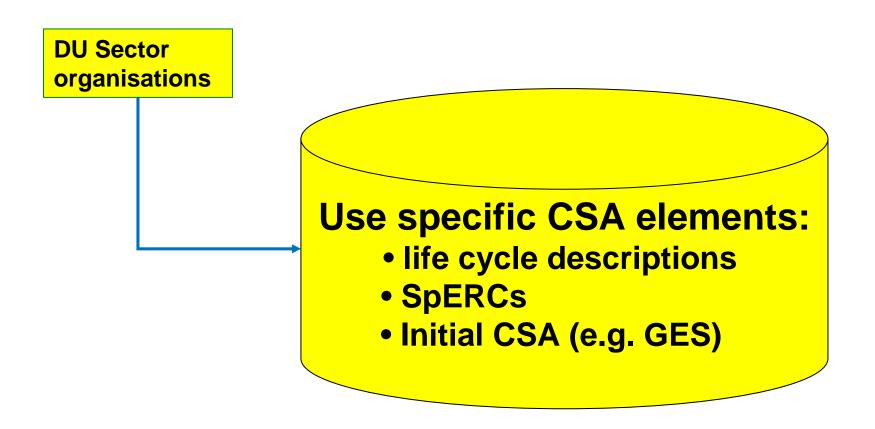
Re-use of CSA elements across substances

 Chesar supports combining manufacturers' knowledge on substance properties with knowledge on condition of use available downstream in the supply chain





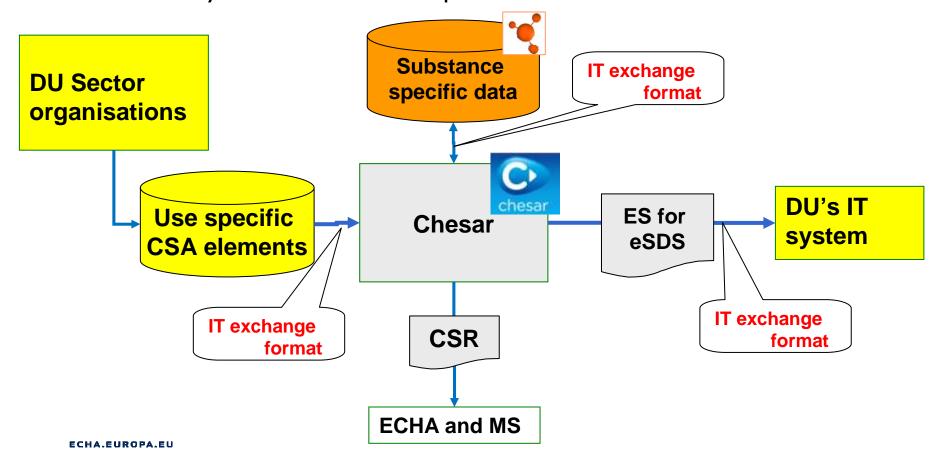
Use specific CSA elements





IT exchange between Chesar, IUCLID, EHS systems

Database and exchange files based on XML increase efficiency and facilitates updates





Consistency between CSA and ES for communication

- Standard phrases can be "linked" to conditions of use (determinants in Chesar terminology) reported in the ESs in the CSR
- ES for communication can be automatically generated from the ES for the CSR
- Industry initiative to harmonise standard phrases and exchange format for communication: ESCom.
 Challenging tasks:
 - need to identify phrases to communicate ESs within the supply chain
 - serves as basis for specification of requirements for Chesar (both for standard phrases and XML)

How to learn more about Chesar 2?















From Chesar 1 to Chesar 2

Chesar 1.0 – May 2010

- **Chesar 1.1** (compatible with IUCLID 5.2.1) 07/2010
- Chesar 1.2 ("Box 5" for ES-SDS added) 08/2011

Chesar 2.0 – release planned for end of June 2012



Chesar 1 vs Chesar 2

- Chesar 2 is based on the same principles as Chesar 1 but offers some significant improvements:
 - Better support to the refinement of initial assessments
 - Increased efficiency of assessments (including copy and paste of assessments) and improved re-use of CSA elements across substances
 - Reduced manual assessment work and stepwise inclusion of more links to exposure estimation tools (ECETOC TRA consumers, Stoffenmanager in a first step)
 - Easier installation



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 It will enable:
 - the export of information on uses from Chesar 2.0 to IUCLID 5.4
 - the 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:
 - generation of exposure scenarios for communication.
- The application will remain stable: each release of this release plan will only add new functionalities.



Where to find information on Chesar

- Chesar website
 http://chesar.echa.europa.eu/
- Webinar (demo) on Chesar on 21 May 2012
 http://echa.europa.eu/web/guest/support/training-material/webinars



Thank you.

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