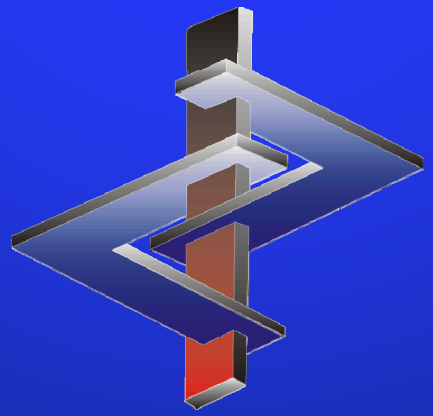
Exposure Scenarios

Steps for creating Exposure Scenarios in ChemGes

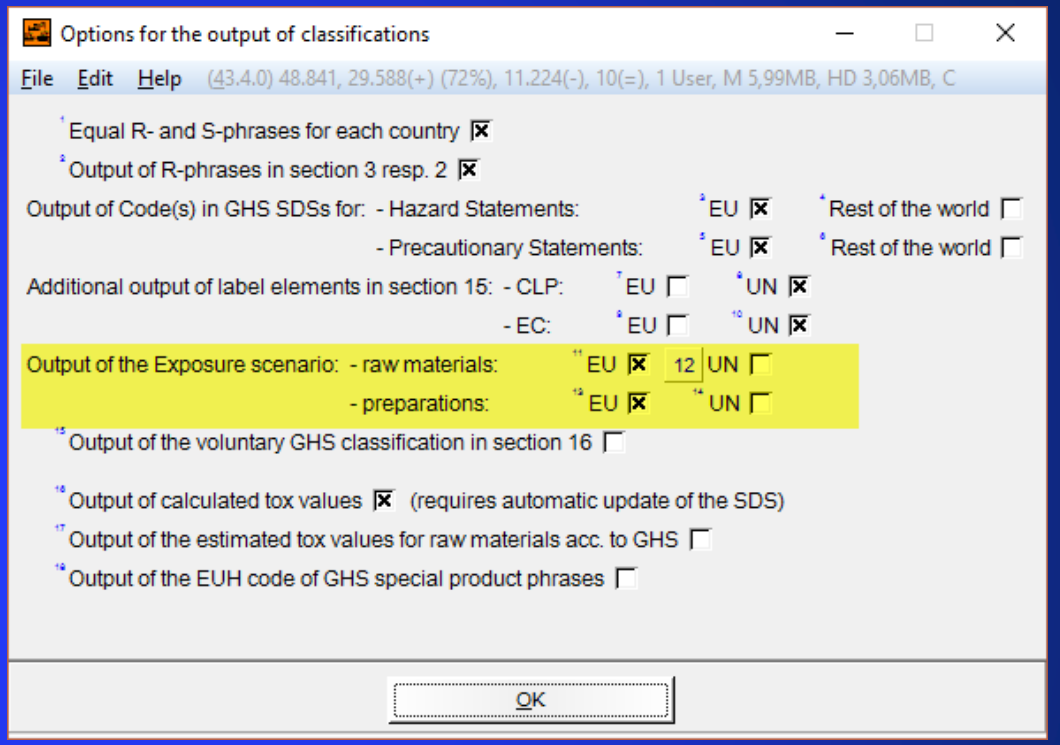


Additional Information can be found in the corresponding document.

Step 1

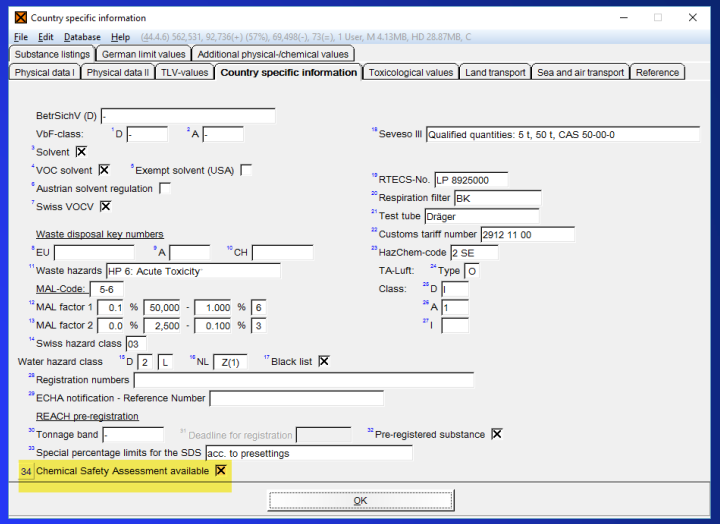
Activate, as needed, fields 11 to 14 regarding the output of Exposure Scenarios (ES).

Maintenance Programs – Safety Data Sheets – Calculation and Output Options – Options for the output of classifications



Step 2

Indicate for each substance, the availability of a Chemical Safety Assessment (CSA).

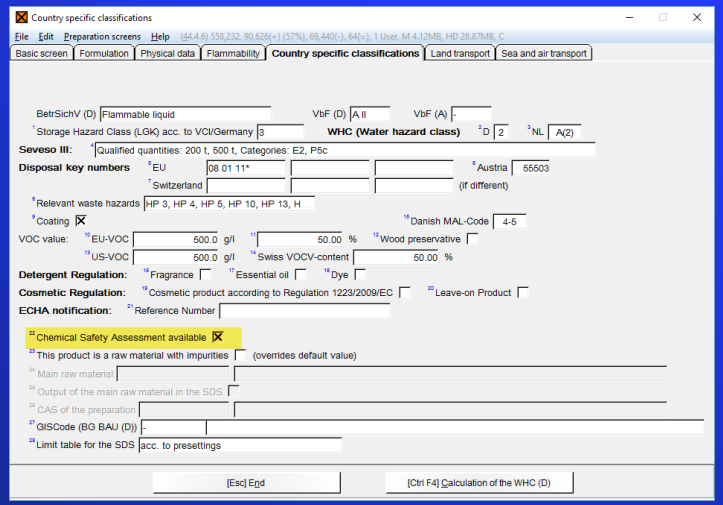


Raw materials :

Item 32 “Chemical Safety Assessment available” in the database tab *Country Specific Information*. (*Maintenance of Raw Materials*)

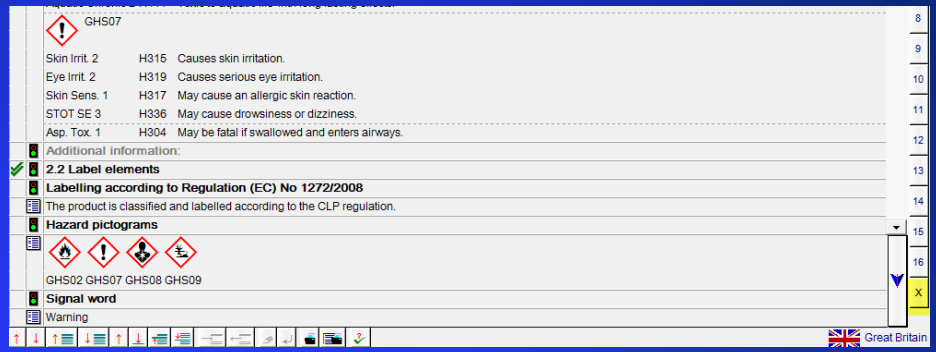
Preparations:

Item 20 in the database tab *Country Specific Classifications*. (*Maintenance of Preparations*)

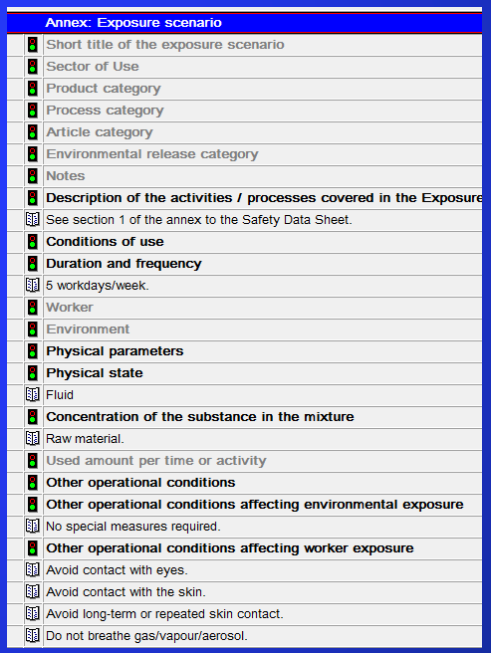


Step 3

Create the first ES from the editing screen of the SDS.



- Click on Section X
- ChemGes will automatically fill in the appropriate fields from the database.
- <u>If this is your only ES</u>, then fill in the additional information. (see next Steps)
- <u>If you will generate additional ESs</u>, leave this as it is for now and follow the next Steps.



Step 4

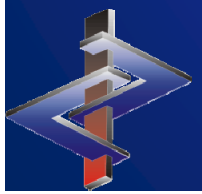
Example

- Company XY sells paint.
  - Outdoor or indoor use
  - Wood or plastic application
- Company XY generates **4 Dummy Substances** named:
  1. *Outdoor Use on Wood*
  2. *Outdoor Use on Plastic*
  3. *Indoor Use on Wood*
  4. *Indoor Use on Plastic*
- The ESs of these dummy substances are called **Templates**
- Company XY produces Product A (for Indoor and Outdoor use)
- The four exposure scenarios are assigned to Product A.

Thus, Product A now has the ES that was created with its SDS and these four other Templates

- The Dummy Substances assigned to these Templates have similar characteristics as Product A. They are not copies of Product A.
- These Dummy Substances can also be used for Product B, with similar characteristics.

These **Templates**, now linked, can be adapted to the actual substance. Only the linked 'copies' are adapted, not the original templates



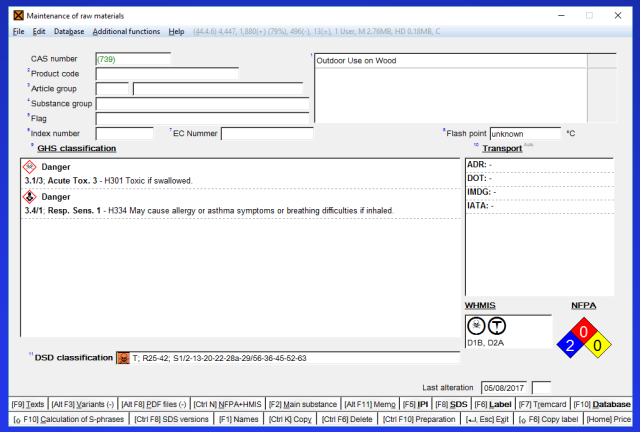
Introductory points to the generation of additional ESs:

-
  - Additional ESs are created by means of **Templates**.
  - **Templates** are generated for **Dummy Substances**.
  - **Dummy Substances** are fictional substances and are not copies of the original substance.
  - **Dummy Substances** are created with a Specific Use and Exposure in mind and have *similar characteristics* to the substance for which the ES applies.
  - *Similar characteristics* must be general enough to apply to other substances to which this Specific Use and Exposure apply.
  - **Templates** are used over and over for many different substances

Step 5

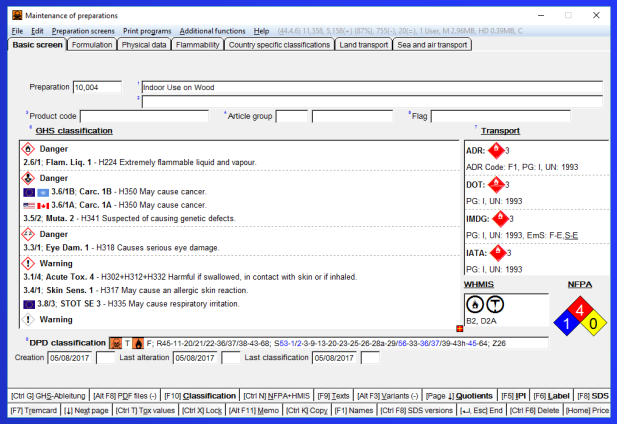
Create Dummy Substances:

- New raw materials – pseudo-CAS numbers



AND/OR

- New preparations



Note:
The ESs from these substances can be used interchangeable. Raw material ESs for preparations and vice versa .
They can also be mixed. Use as needed.

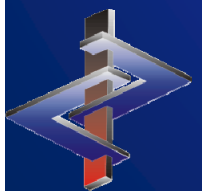
Dummy Substance Features:

Name:

- representative/descriptive of ES Template

Characteristics:

- apply to every substance that will use this Template and the ES described by the template



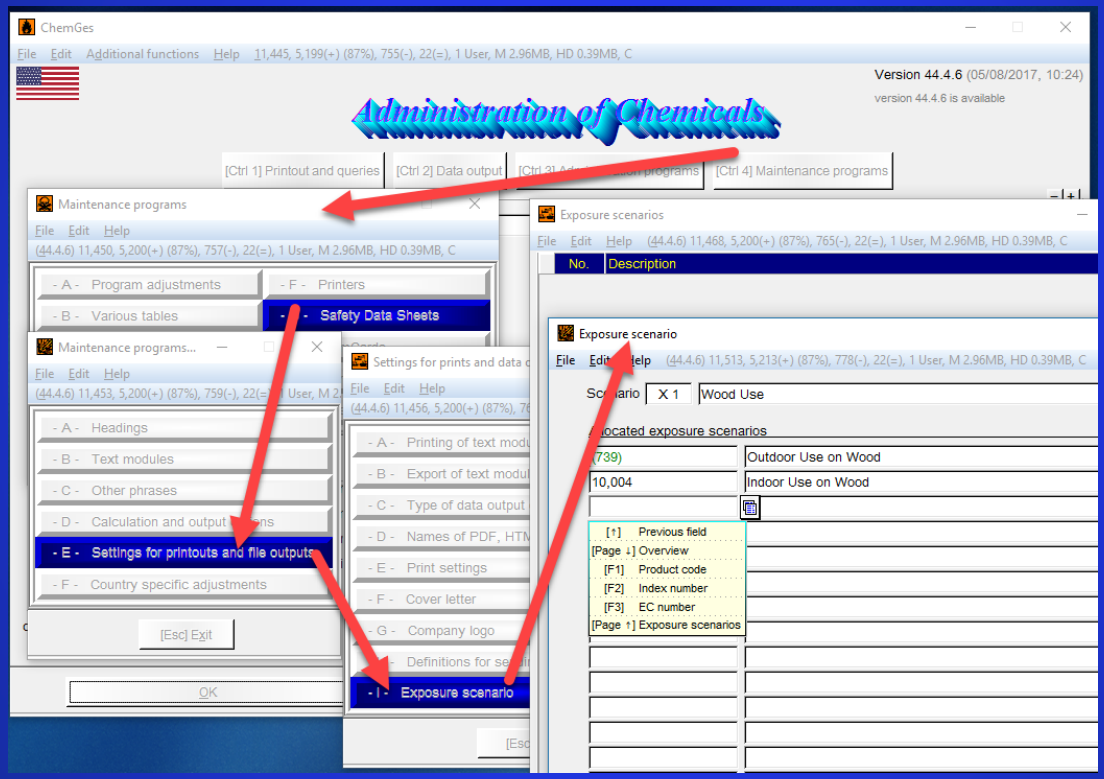
Annex: Exposure scenario
Short title of the exposure scenario
Sector of Use
Product category
Process category
Article category
Environmental release category
Notes
Description of the activities / processes covered in the Exposure Scenario
See section 1 of the annex to the Safety Data Sheet.
Conditions of use
Duration and frequency
5 workdays/week.
Worker
Environment
Physical parameters
Physical state
Fluid
Concentration of the substance in the mixture
Raw material.
Used amount per time or activity
Other operational conditions
Other operational conditions affecting environmental exposure
No special measures required.
Other operational conditions affecting worker exposure
Other operational conditions affecting consumer exposure
No special measures required.
Other operational conditions affecting consumer exposure during the use of the product
Not applicable.
Risk management measures
Worker protection
Organisational protective measures
No special measures required.
Technical protective measures
Ensure that suitable extractors are available on processing machines
Personal protective measures
Do not inhale gases / fumes / aerosols.
All phrases from heading 8.50.50.40 Protective suit
Measures for consumer protection
Ensure adequate labelling.
Environmental protection measures
Air
Water
No special measures required.
Soil
Notes
Disposal measures
Ensure that waste is collected and contained.
Disposal procedures
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Waste type
Partially emptied and uncleaned packaging
Notes
Exposure estimation
Worker (oral)
Worker (dermal)
Worker (inhalation)
Environment
Consumer
Not relevant for this Exposure Scenario.
Guidance for downstream users
No further relevant information available.

Step 6

Further Automation:

ES Grouping

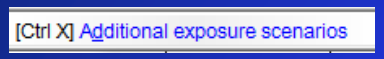
Maintenance Programs – Safety Data Sheets – Settings for printouts and file outputs – Exposure Scenarios



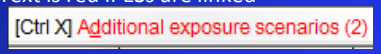
Step 8

Adding Exposure Scenarios to your original substance

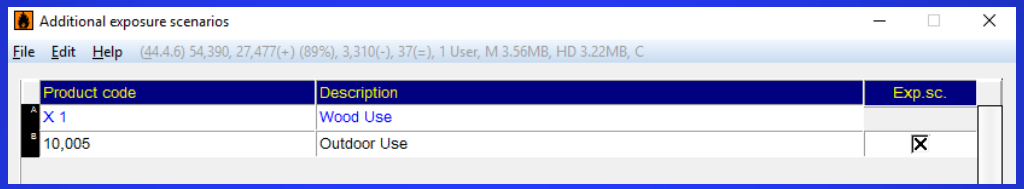
- Enter the editing screen of the SDS.
  - Click at the bottom of the screen on the option Ctrl X *Additional Exposure Scenarios*.



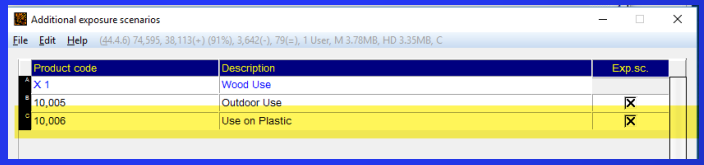
  - Text is red if ESs are linked

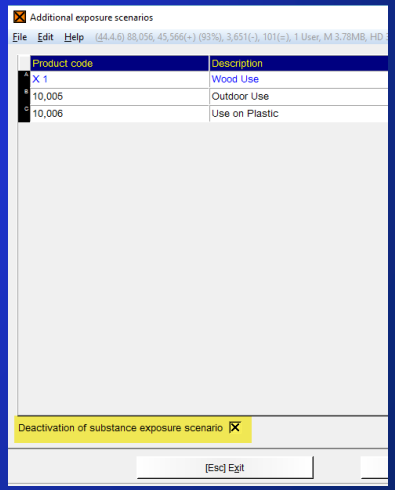


    - Enter the Templates to link



- ESs assigned to a substance which is assigned to a substance for which scenarios are being generated, will also be included.





All additional ES Templates are automatically populated with information from the SDS.

The Point *Deactivation of Substance Exposure Scenario* can be activated if only templates are to be used.

Step 9

Further Automation:

Linking Phrases

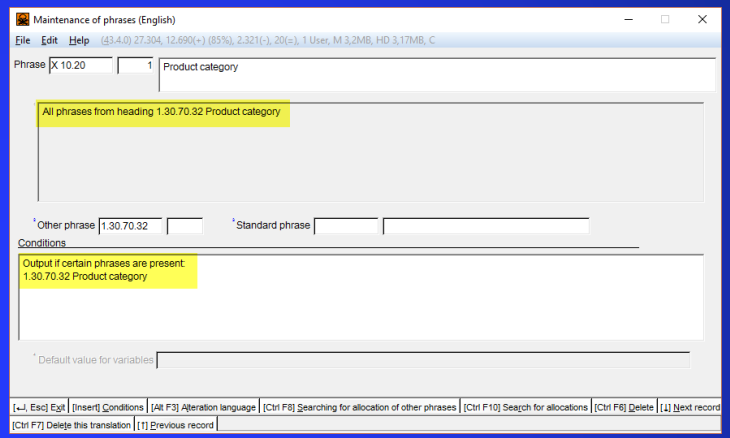
Maintenance Programs – Safety Data Sheets – Text Modules

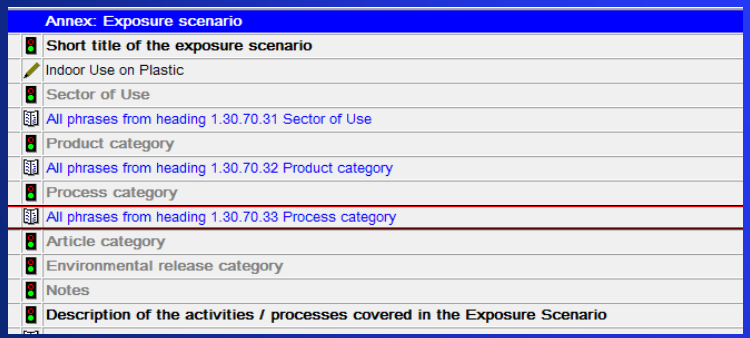
The data in the SDS must correspond to the data in the ESs.

This can be automated via conditions.

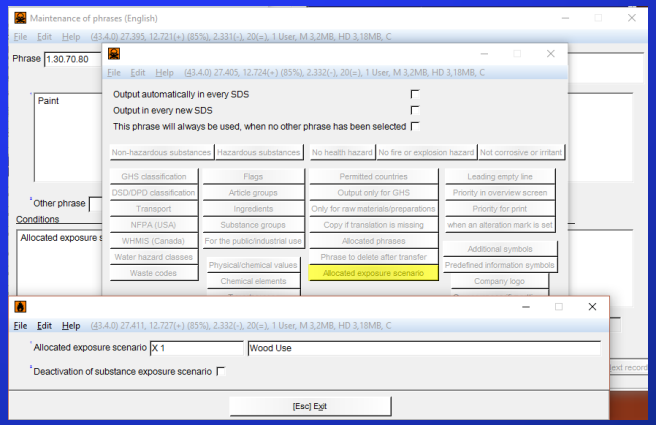
Fill in Data for each Template and the corresponding Data in the SDS.

1. Link directly to Phrases from SDS:





2. Allocate Phrase to ES:



More detailed Information can be found in the Manual to ChemGes

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