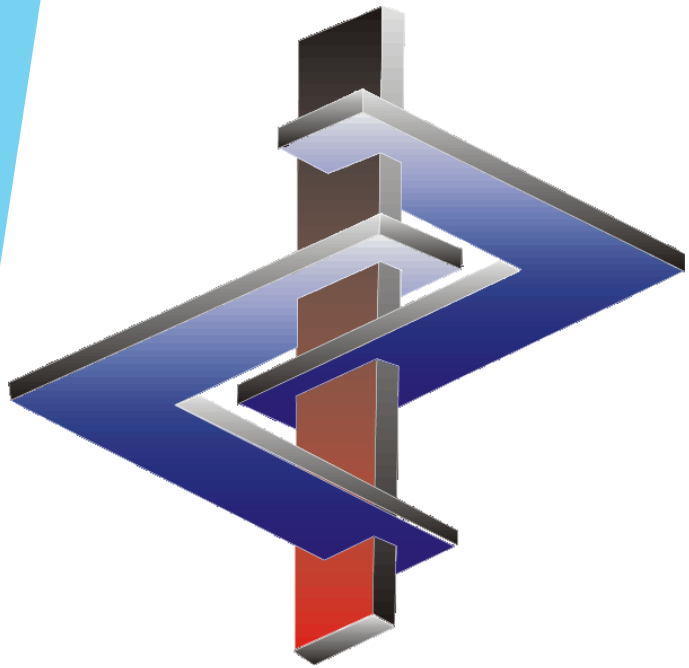


# Exposure Scenarios

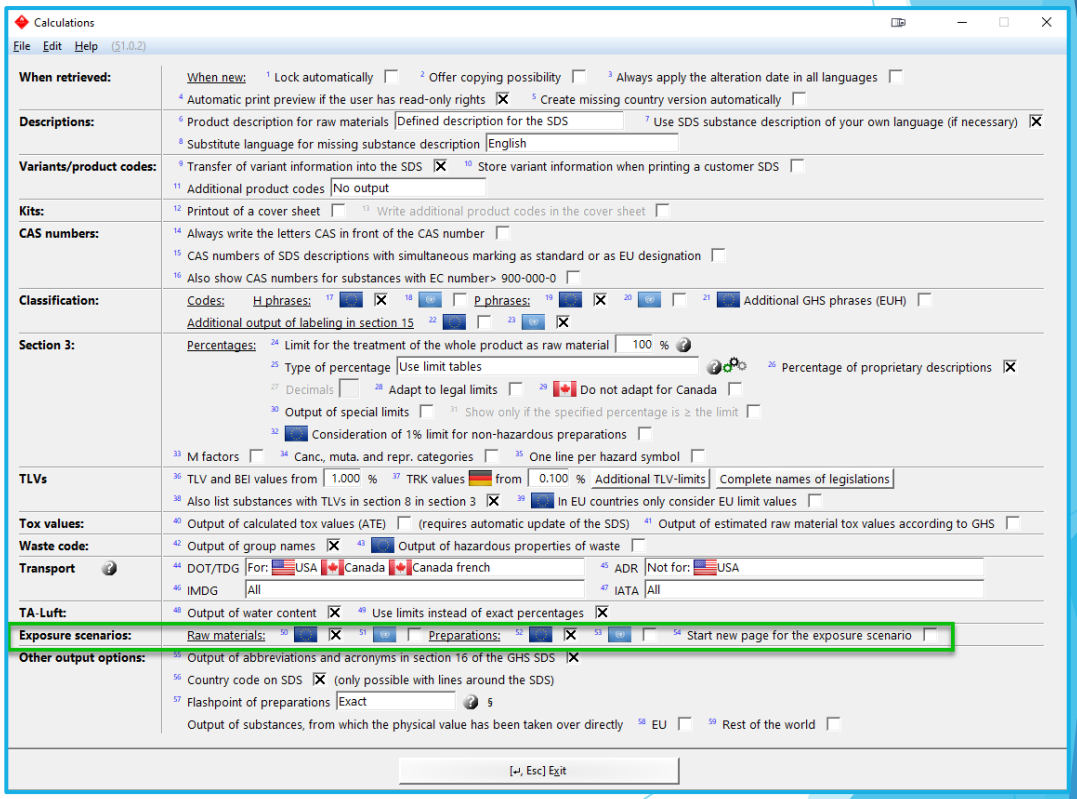
Steps for creating Exposure Scenarios in ChemGes

Additional Information can be found in the corresponding document and the manual to ChemGes.

# Step 1:
## Activating the output of the Exposure Scenario

Activate, as needed, fields 50 to 54 regarding the output of Exposure Scenarios (ES).

(Ctrl 4 ***Maintenance Programs*** – *Safety Data Sheets – Options –* ***General Options***)



# Step 2:

## Activation of availability of Chemical Safety Assessment (CSA) for all substances

**Raw materials :**

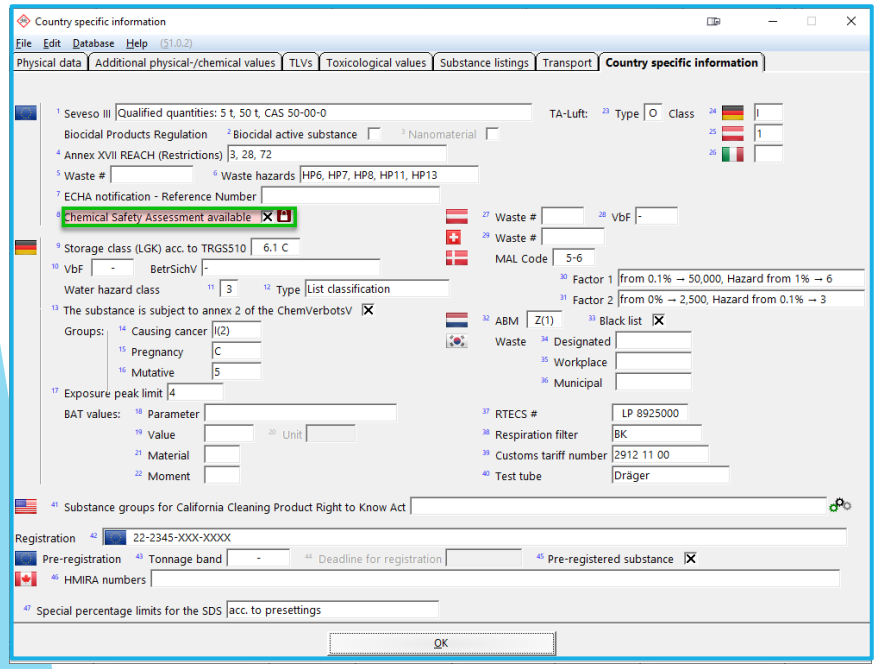
Item 8 "**Chemical Safety Assessment available**" in the database tab ***Country Specific Information***.

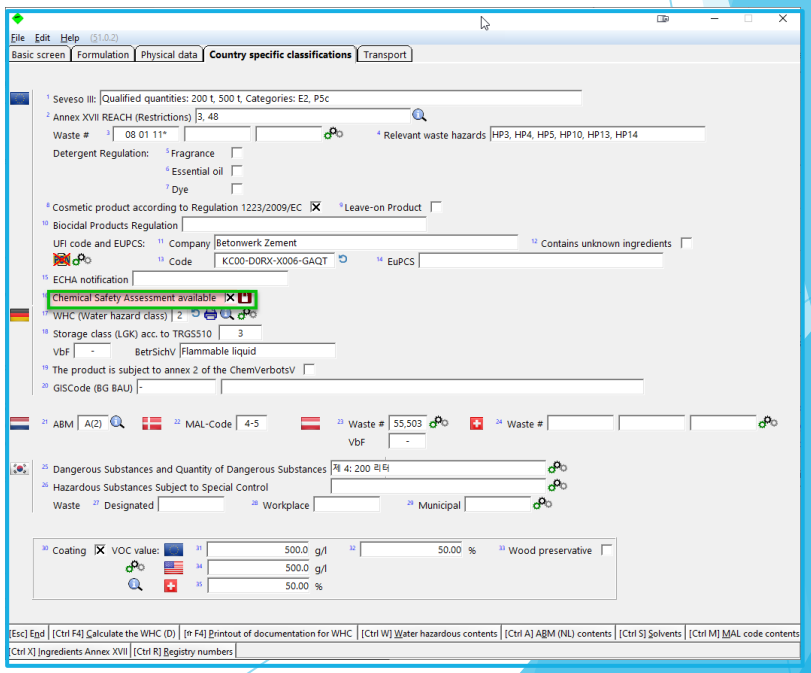
(*Maintenance of Raw Materials*)

**Preparations:**

Item 16 "**Chemical Safety Assessment available**" in the database tab ***Country Specific Classifications***.

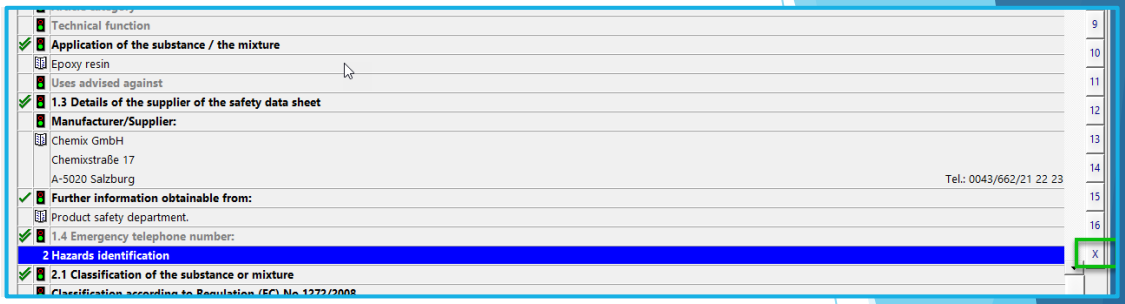
(*Maintenance of Preparations*)



# Step 3:
# Creating the first ES from the editing screen of the SDS

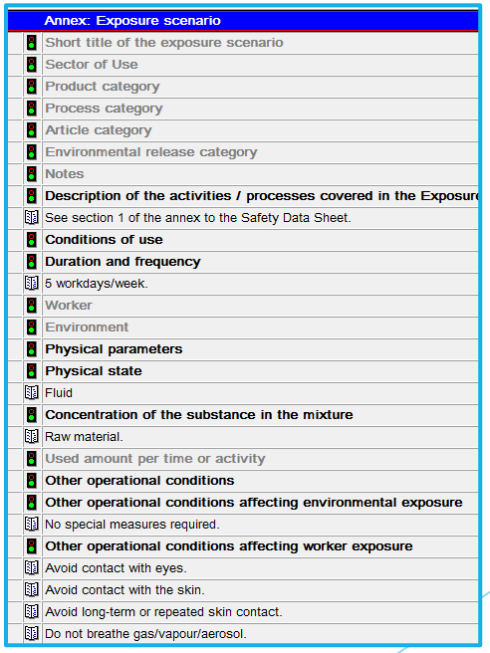
Click on Section X




ChemGes will automatically fill in the appropriate fields from the database.

If this is your only ES, then fill in the additional information. (see next Steps)

If you will generate additional ESs, leave this as it is for now and follow the next Steps.



# Step 4:
# 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

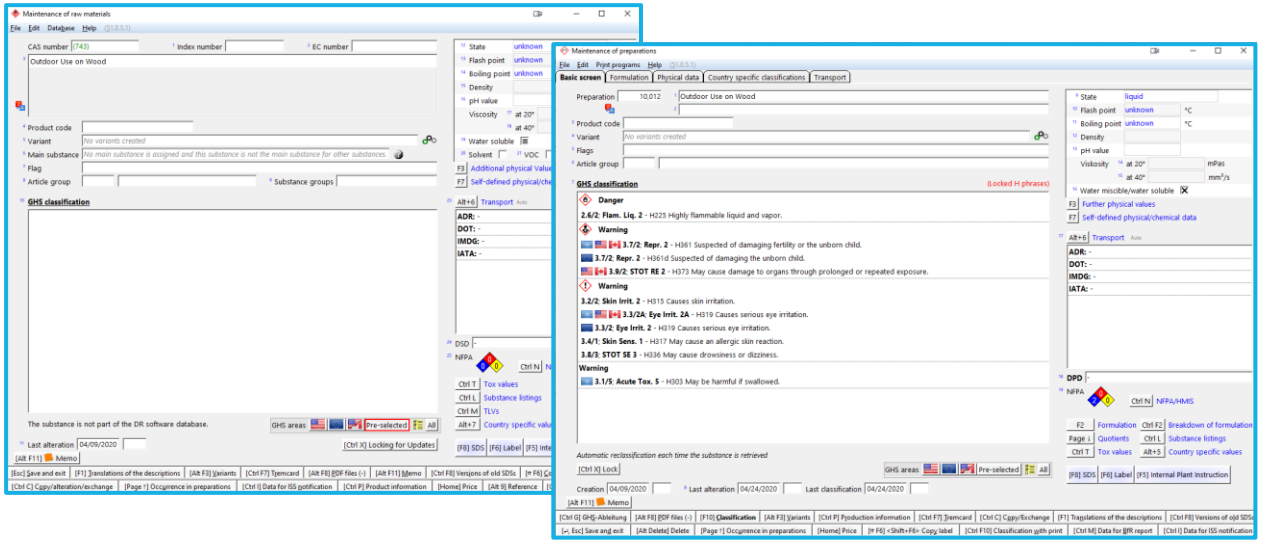
**Example**

- 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

# Step 5:
# Creating Dummy Substances:

**New raw materials** (pseudo-CAS numbers) **AND/OR New preparations**



**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

**Note:**

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

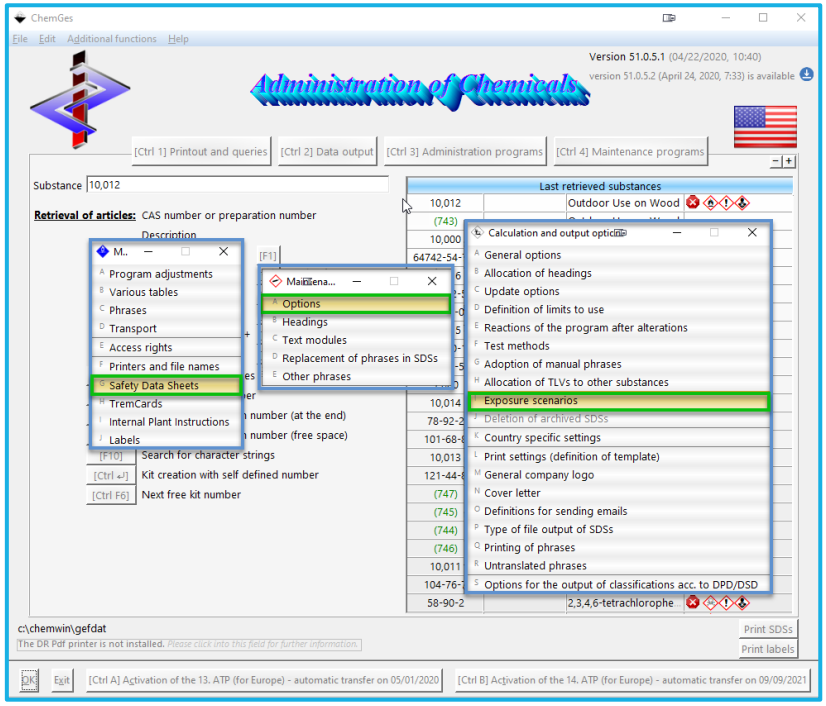
**Annex: Exposure scenario**

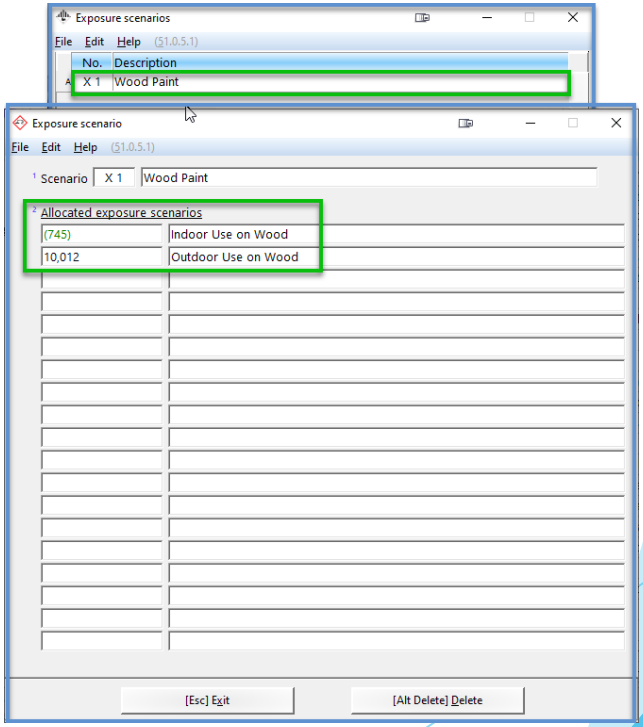
- Short title of the exposure scenario
- Sector of Use
- Product category
- Process category
- Article category
- Environmental release category
- Notes
- **Description of the activities / processes covered in the Exposure Scenario**
  - See section 1 of the annex to the Safety Data Sheet.
- **Conditions 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 8.50.60.40 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

**Creation of ES-Groups:**

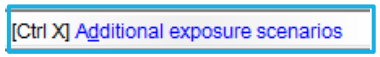
Ctrl 4 ***Maintenance Programs*** – *Safety Data Sheets – Options –* ***Exposure Scenarios***



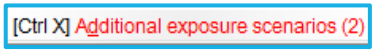



# Step 7:
# Adding Exposure Scenarios to your original substance:

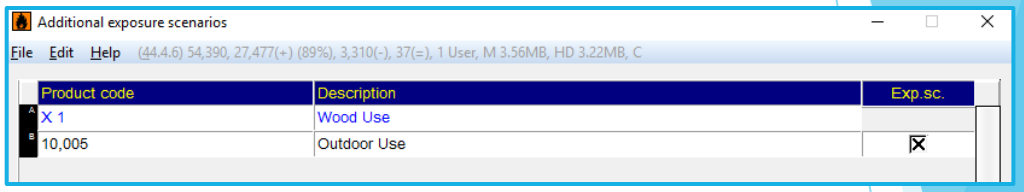
- Enter the editing screen of the SDS.
- Click at the bottom of the screen on the option [Ctrl] [X] **Additional Exposure Scenarios**.



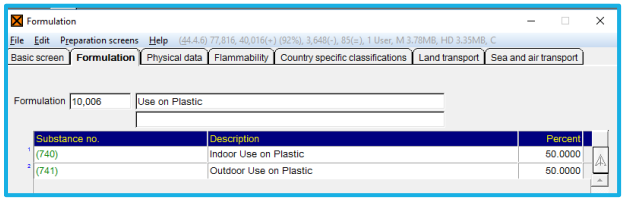

- Text is red if ESs are linked



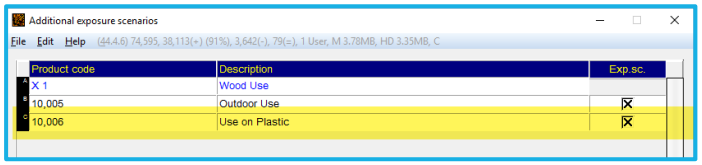

Enter the Templates to link

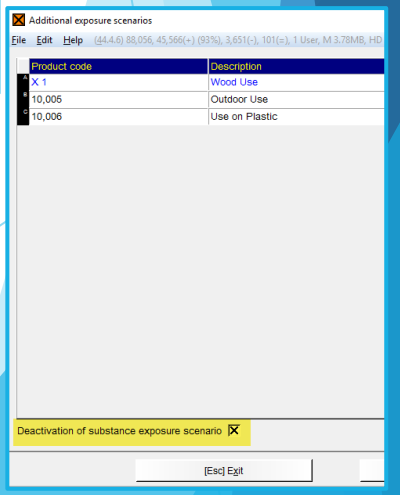



ESs assigned to a substance which is assigned to a substance for which scenarios are being generated, will also be included.




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




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

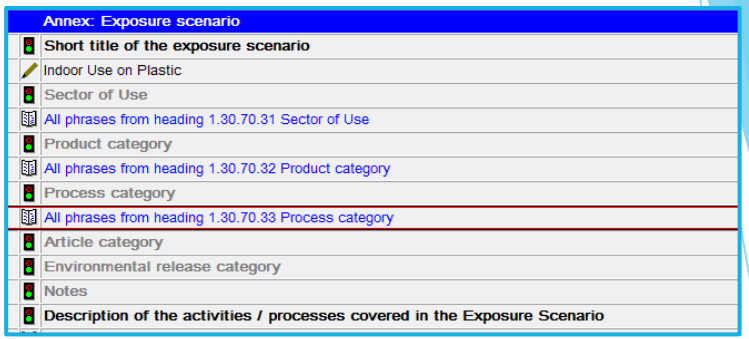
# Step 8:
# Further Automation: Linking Phrases

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

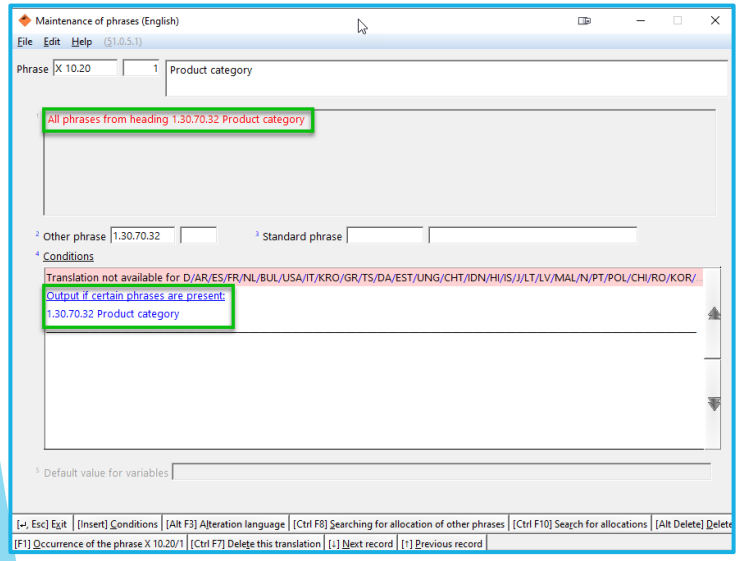
This can be automated via conditions.

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

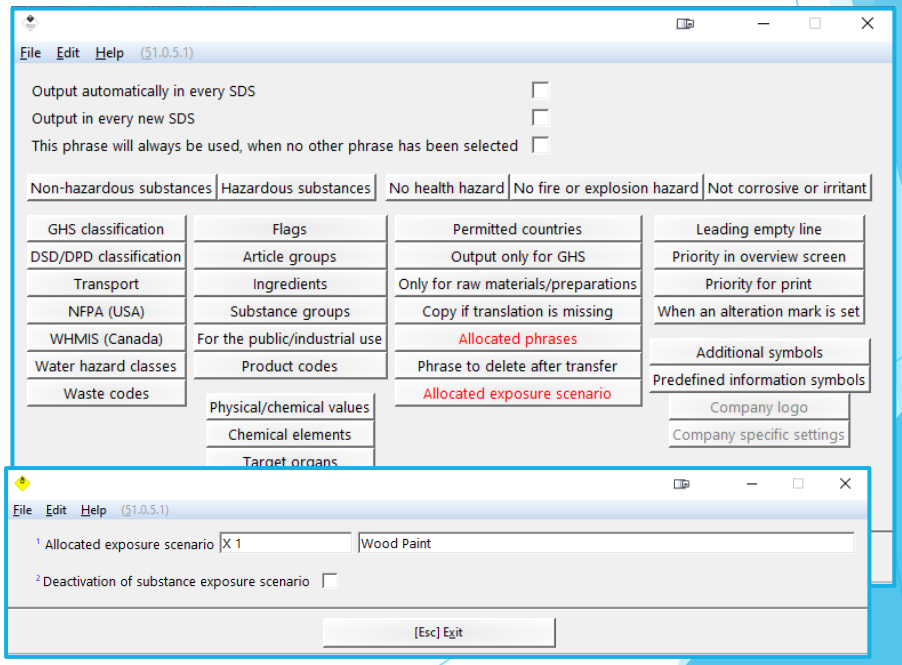
Ctrl 4 **Maintenance Programs** – *Safety Data Sheets – Text Modules*




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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