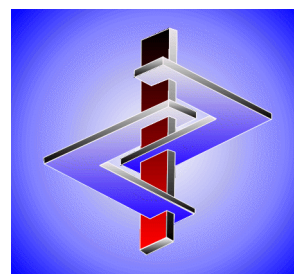

Manual

First steps with ChemGes

DR Software

Version 62.0



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Creation of a new substance.....	5
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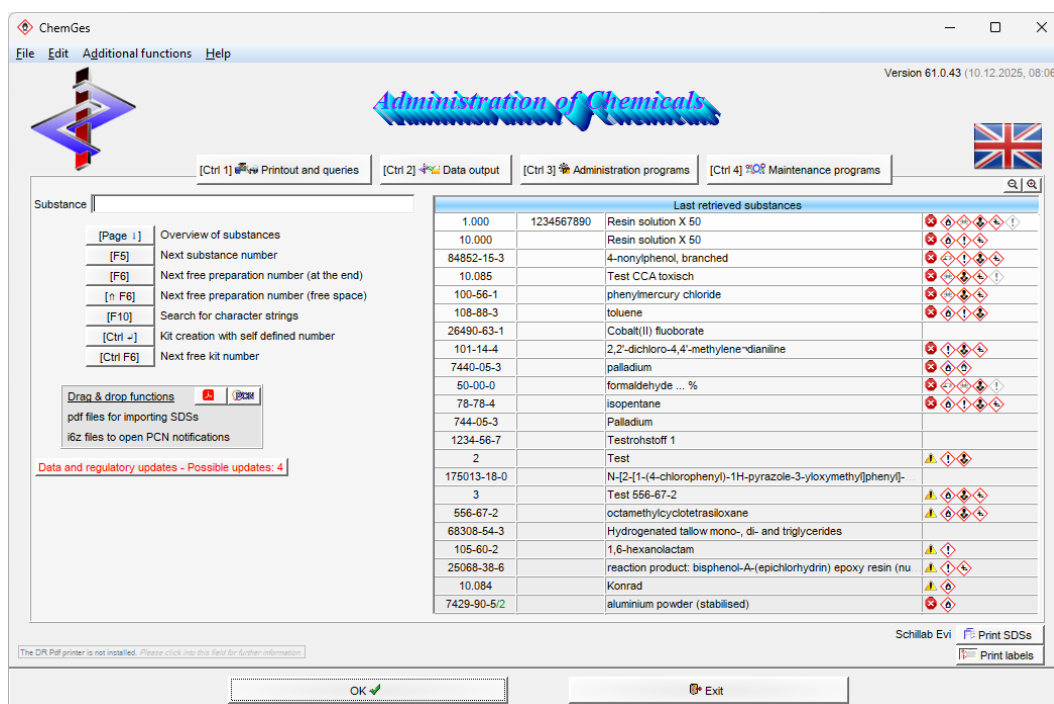
Introduction

The following instructions briefly describe the program start, the use of the substance database, as well as the creation of preparations and Safety Data Sheets. It is intended for users, who have little experience in working with a computer.

It is also recommended for all users who want to gain an overview of the program within a short time without having to read the whole manual first. For further details please refer to the more comprehensive chapters in the manual and the online-help, which also includes an index.

Program start

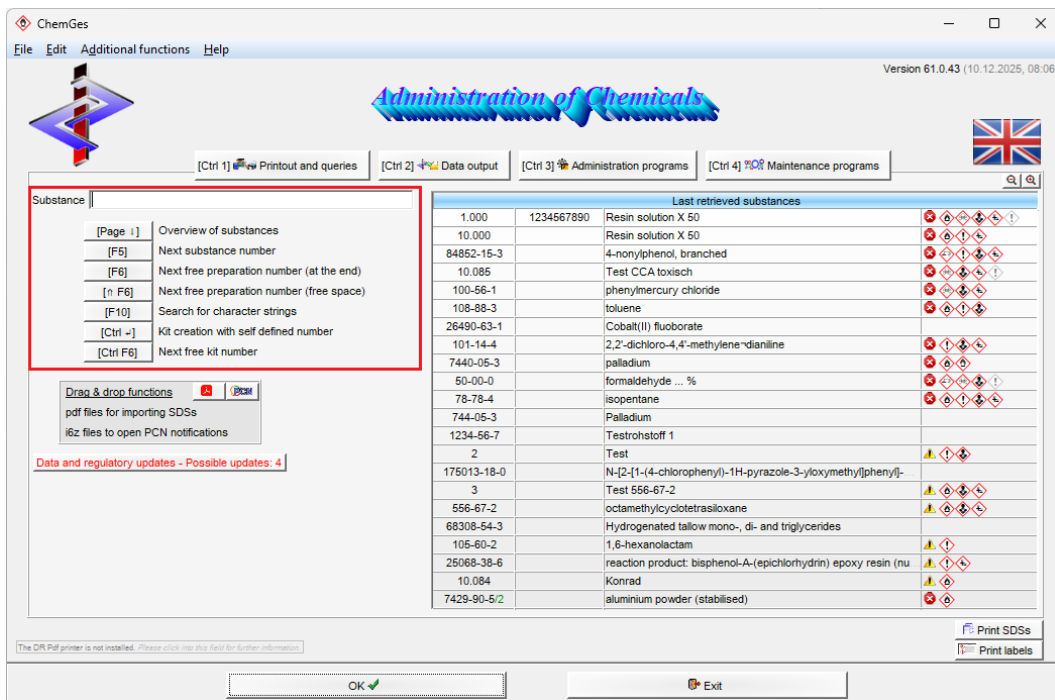
You can start the program ChemGes either by means of an icon on the desktop or by double-clicking the file ChemGes **chemges.exe**, which can be found in the program directory (usually CHEM). After that the basic screen of ChemGes is displayed (see next picture):



Menu item	Access
Maintenance of raw materials and Maintenance of preparations	Left part of the basic screen <i>Further information can be found in Searching for and retrieving substances and preparations on the following pages</i>
Programs for Printout and queries	[Ctrl] 1
Programs for Data output	[Ctrl] 2
Administration programs	[Ctrl] 3

Maintenance programs	Ctrl 4
Additional functions	Upper menu bar

Searching for and retrieving substances and preparations



You can search for and retrieve **substances** (raw materials) by means of:

- their CAS-number: Enter the CAS-Number (with or without hyphen) and press .
- further identification numbers:
 - *Product code*: enter the product code and press
 - *Index number*: enter the index number and press
 - *EC number*: enter the EC number and press
 - *UN number*: enter the UN number and press
 - *Registration number (ECHA)*: enter the registration number (or parts of the number) and press .
- their names: Enter the name (or a part of the name) and press . Select the required substance (if found) from the displayed overview. After that the respective substance is displayed.

You can search for and retrieve **preparations** by means of:

- their product number (preparation number): Enter the preparation number and press .
- their product code, UN-number or UFI-Code:
 - *Product code*: enter the product code and press
 - *UN number*: enter the UN number and press

- *UFI-Code*: enter the 16-digit UFI code and press **Ctrl** **U**

- **their names**: Enter the name (or a part of the name) and press **↵**. Select the required preparation (if found) from the displayed overview. After that the respective preparation is displayed.

Example for searching for a name:

Substance no.	Product code	Description	Hazards
A74-82-8		methane	☠ ☢
#56960-31-7		methanesulfonic acid	☠ ☢
q74-97-5		methane, bromochloro-	☠ ☢
q75-63-8		methane, bromotrifluoro-	☠ ☢
#563-70-2		methane, bromotri-	☠ ☢
#64-19-7		Methanecarboxylic acid	☠ ☢
q5799-70-2		methanedisulfonic acid, sodium salt (1:2)	☠ ☢
H74-82-8		methane in gaseous state	☠ ☢
I75-62-5		methane, nitro-	☠ ☢
J75-75-2		methanesulfonic acid	☠ ☢
K124-63-0		methanesulfonyl chloride	☠ ☢
L558-25-8		methanesulfonyl fluoride	☠ ☢
M2560-61-0		methanesulfonic acid, cesium salt	☠ ☢
N2926-30-9		methanesulfonic acid, 1,1,1-trifluoro-, sodium salt (1:1)	☠ ☢
q3144.09.0		methanesulfonamide	☠ ☢
#37595-74-7		methanesulfonamide, 1,1,1-trifluoro-N-phenyl-N-[(trifluoromethyl)sulfonyl]-	☠ ☢
q38542-94-8		methanesulfonic acid, 1,1,1-trifluoro-, ammonium salt (1:1)	☠ ☢
#64035-64-9		methanesulfonic acid, 1,1,1-trifluoro-, (trimethylsilyl)methyl ester	☠ ☢
#65007-00-3		methanesulfonic acid, 1,1,1-trifluoro-, 2-pyridinyl ester	☠ ☢
I75618-25-6		methanesulfonic acid, 1,1,1-trifluoro-, butyl ester	☠ ☢
U92886-86-7		methanesulfonic acid, 1,1,1-trifluoro-, (1,1-dimethylethyl)diphenylsilyl ester	☠ ☢
V95860-12-1		methanesulfonic acid, lead salt	☠ ☢
W145100-50-1		methanesulfonamide, 1,1,1-trifluoro-N-2-pyridinyl-N-[(trifluoromethyl)sulfonyl]-	☠ ☢
X75-75-2		methanesulphonic acid	☠ ☢
Y124-63-0		methanesulphonyl chloride	☠ ☢
Z558-25-8		methanesulphonyl fluoride	☠ ☢
q7143-01-3		methanesulphonic anhydride	☠ ☢
I693-13-0		N,N'-methanetetraylbis(1-methylethylamine)	☠ ☢
I1000-70-0		N,N'-methanetetraylbis[1,1,1-trimethylsilylamine]	☠ ☢
I74-93-1		Methanethiol	☠ ☢
I75-18-3		Methane, thiobis-	☠ ☢
I1534-08-3		Methanethiol acetate	☠ ☢

When you retrieve a substance/preparation by means of its CAS-number/preparation number, product code or name, the program switches to the maintenance screen of the respective substance/preparation:

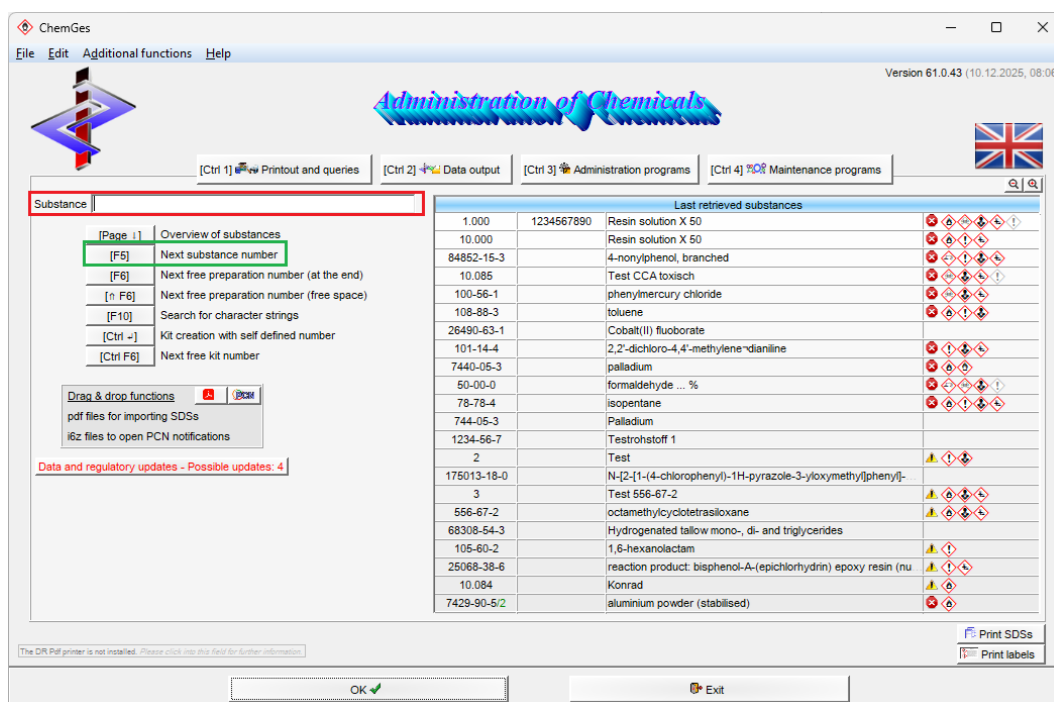
Sample for the "Maintenance of raw materials"

You can display further data by means of the menu item **Database** (upper menu bar) or the respective tabs.

Sample for the "Maintenance of preparations"

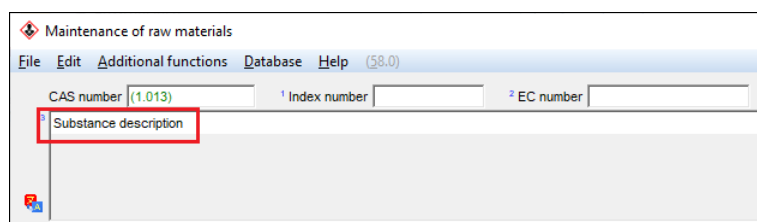
You can display further data by means of the respective tabs.

Creation of a new substance



Enter the **CAS number** in the search screen. If no CAS number is available, press the button **[F5]** *Next substance number* (or function key **[F5]**) to allocate a pseudo-CAS number. This pseudo CAS number is displayed in green and in parenthesis and is not stated in documents (e.g. SDS).

Enter the **substance description** in the editor-field and press **[Esc]** (see next picture).

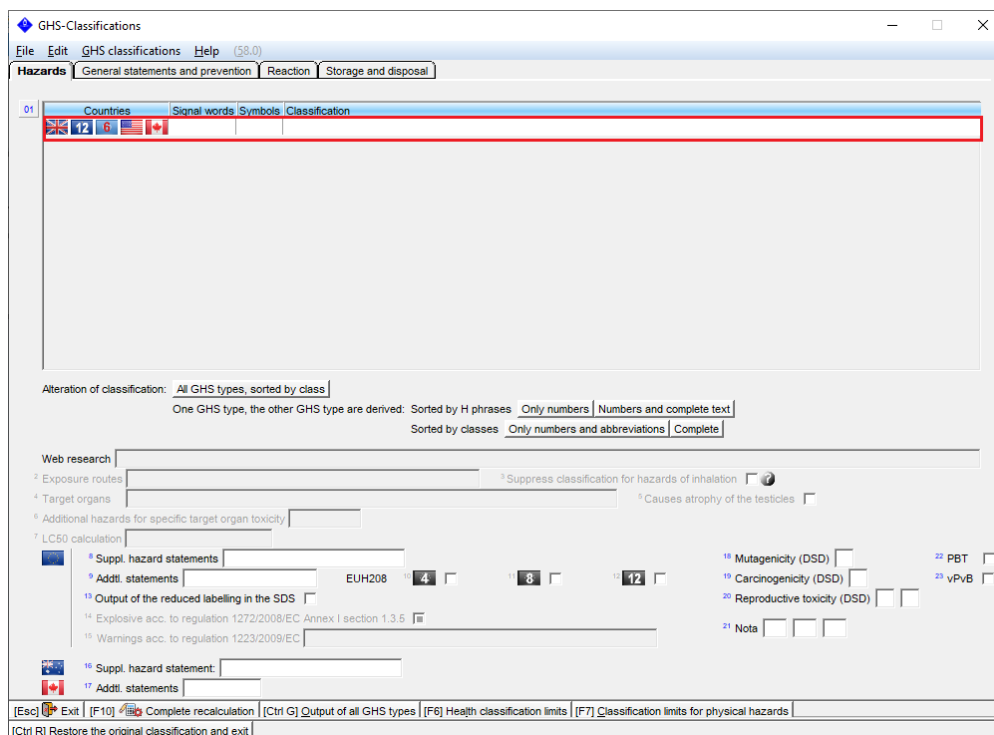
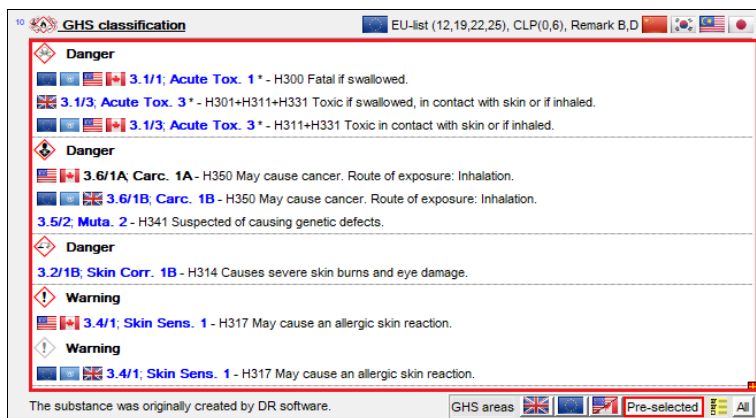


If available, enter the **Index number**, the **EC-number** and your **Product code** (internal code), in the appropriate fields.

After that please enter either the Hazard statements according to **GHS** or the Risk phrases according to **DSD** – depending on the information that is at your disposal. Depending on the settings, ChemGes will automatically create the classification for the other classification system, based on the GHS Hazard statements, resp. Risk phrases that you have selected.

Entry of Hazard statements according to GHS:

Select item **GHS classification** and in the next screen click into the displayed line (any column).



Note:

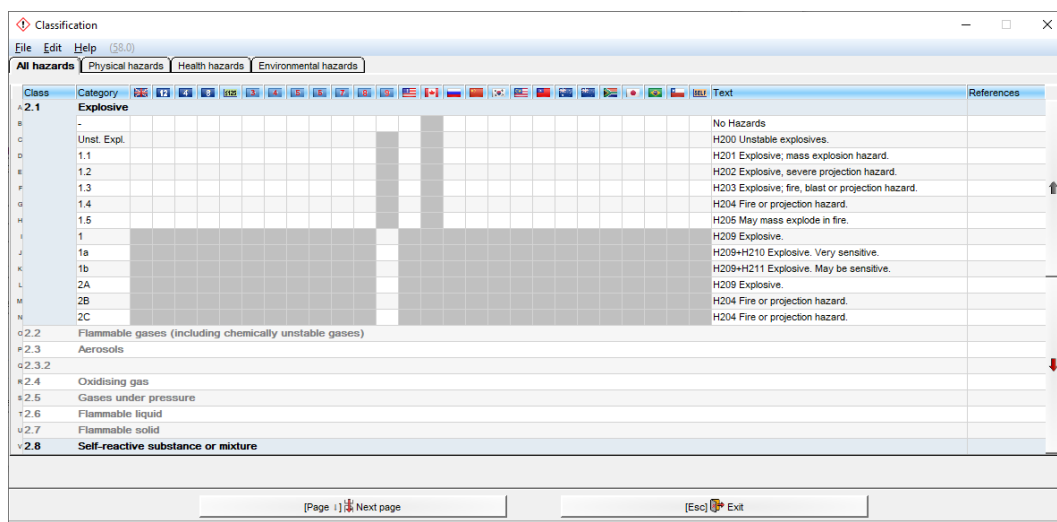
The output of the GHS classification can be varied in the screen **GHS-Classifications** via the item **Alteration of classification**. Further information on these functions can be found in the *General manual to ChemGes*.

Here you can select the requested Hazard statements separately for the following GHS classification systems:

- **CLP** (EU flag – 4. ATP, 8. ATP and 12. ATP, as well as ≤ 125 (for the **reduced labelling** according to CLP, Annex I, 1.5.2 „Exemptions from Article 17 [(Article 29(2)]“)),
- **UN GHS** (flag United Nations)
at differences between the revisions supplemented by the following digits:
 - 3: Revision 3 (2009)
 - 4: Revision 4 (2011)
 - 5: Revision 5 (2013)
 - 6: Revision 6 (2015)

- 7. Revision 7 (2017)
- 8. Revision 8 (2019)
- 9. Revision 9 (2021)
- **OSHA HCS (US flag)**
- **HPR (CA flag)**
- **Further national classifications** (see respective flags)
- **SELF: Self-classifications** (can be entered by the user)

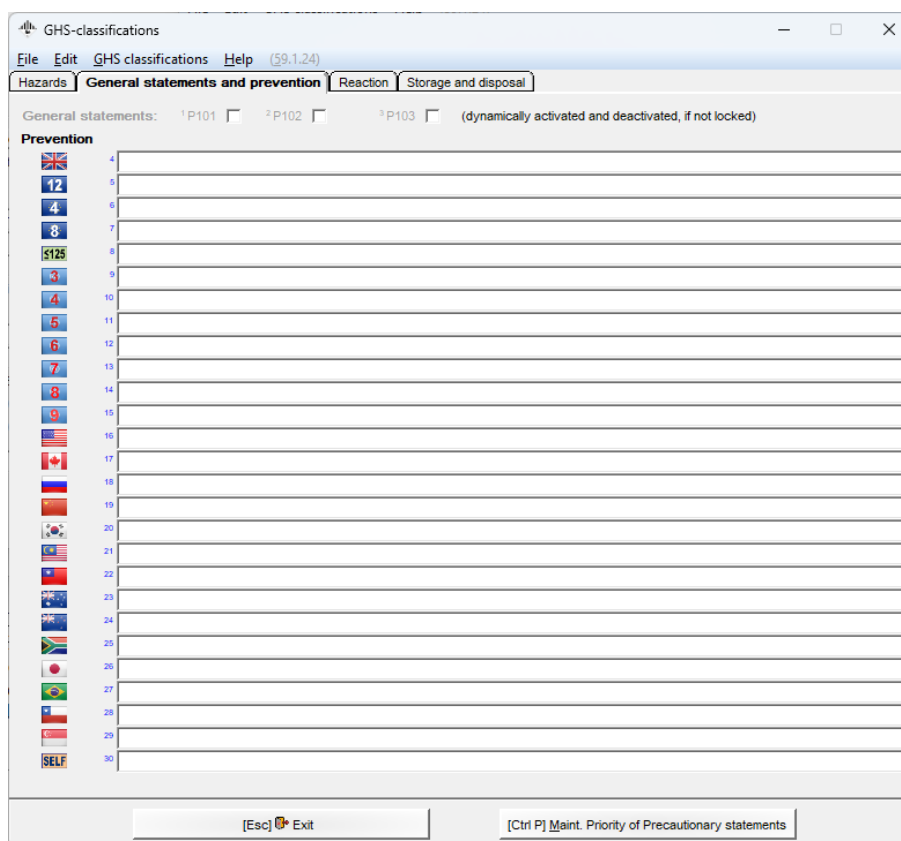
Select the corresponding phrases by clicking on them.



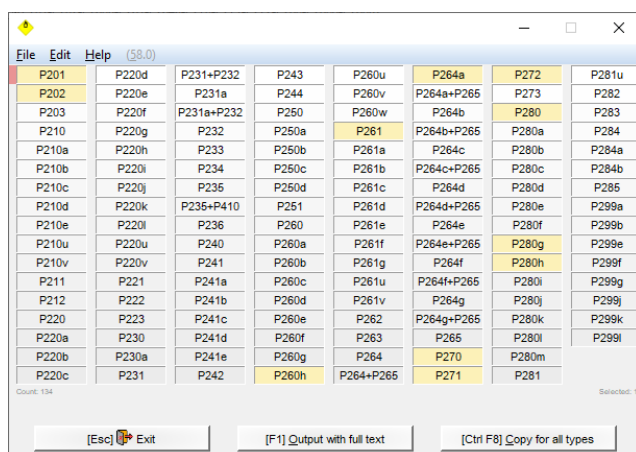
When you have finished the selection press **[ESC]** to switch back to the screen **GHS classifications**. After that select the tabs *General statements and prevention*, *Reaction* and *Storage and disposal* of the screen **GHS classifications**.

Display of the precautionary statements according to:

- **CLP (EU flag – 4. ATP, 8. ATP and 12. ATP**, as well as ≤ 125 (for the **reduced labelling** according to CLP, Annex I, 1.5.2 „*Exemptions from Article 17 [(Article 29(2)]*“)),
- **UN GHS (flag United Nations)**
supplemented by the following digits:
 - 3: Revision 3 (2009)
 - 4: Revision 4 (2011)
 - 5: Revision 5 (2013)
 - 6: Revision 6 (2015)
 - 7: Revision 7 (2017)
 - 8: Revision 8 (2019)
 - 9: Revision 9 (2021)
- **OSHA HCS (US flag)**
- **HPR (CA flag)**
- **Further national classifications** (see respective flags)
- **SELF: Self-classifications** (can be entered by the user)



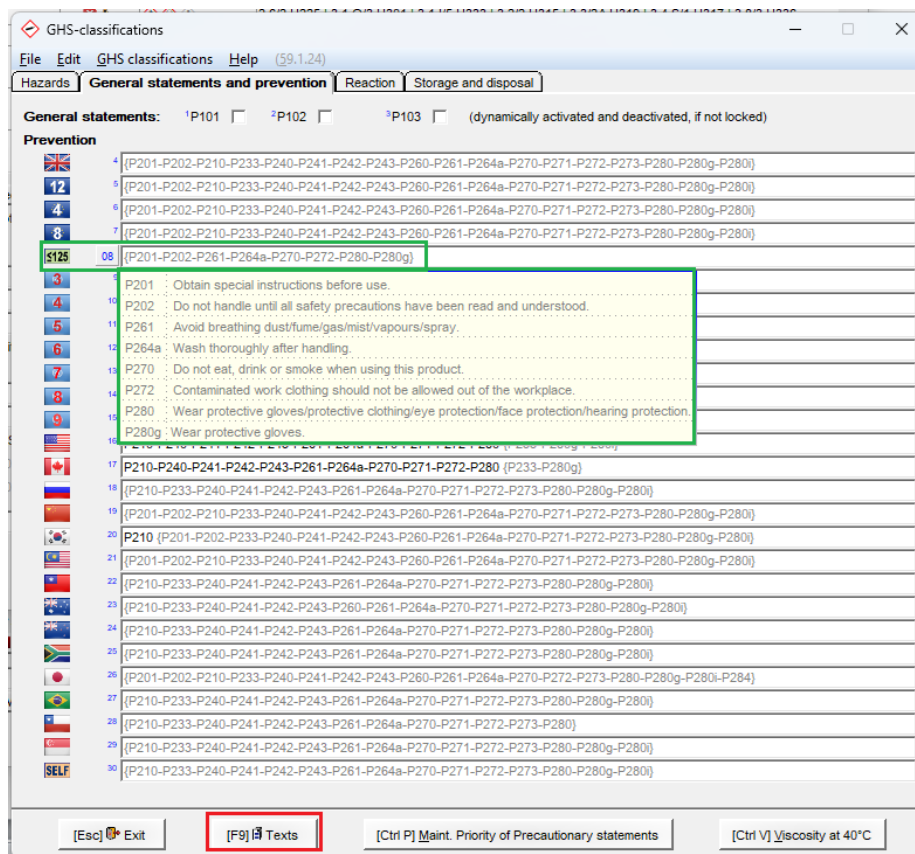
ChemGes automatically selects the Precautionary statements (P phrases) based on the Hazard statements (H phrases) that you have selected and displays the phrases in this screen. If required, you can add or remove phrases by clicking into the line for the requested GHS system (flag) and selecting the requested phrases by clicking from the displayed overview.



Note:

You can display the texts of the nationally allocated P phrases by moving the cursor over the respective line. By means of **[F1]** you can display an **overview of all P phrases with full text**.

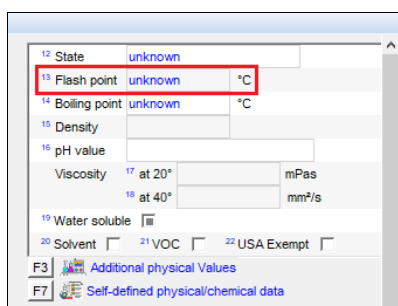
Sample – Tab *General statements and prevention*:



Press **[Esc]** to leave this screen.

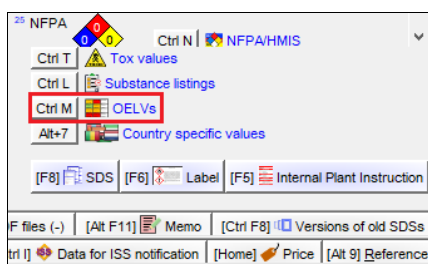
The main screen now shows the *GHS classification* (field **GHS classification**, *CLP, UN GHS, US GHS, HPR, further national classifications, self-classifications*) and the *EU classification* (field **DSD classification**, *Dangerous Substances Directive 67/548/EEC*) of the substance.

If available, enter the **Flash point** in field 13 of the *Maintenance of raw materials* screen:

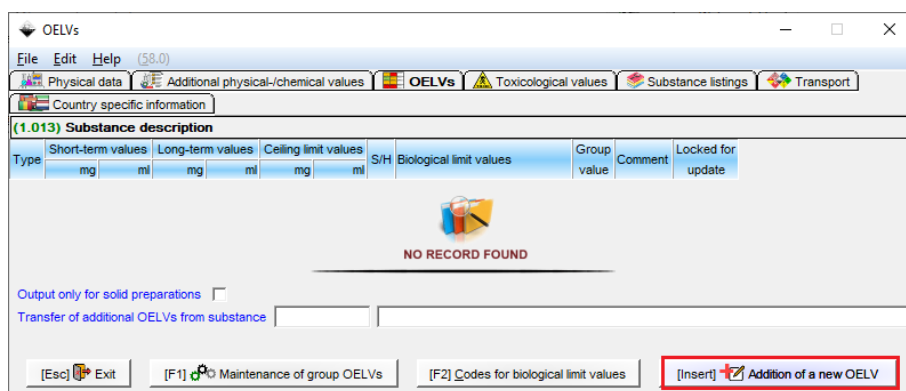


Now either press **[F3]** **Additional physical values** or click on the item **Database** in the upper menu bar and select *Physical data*.

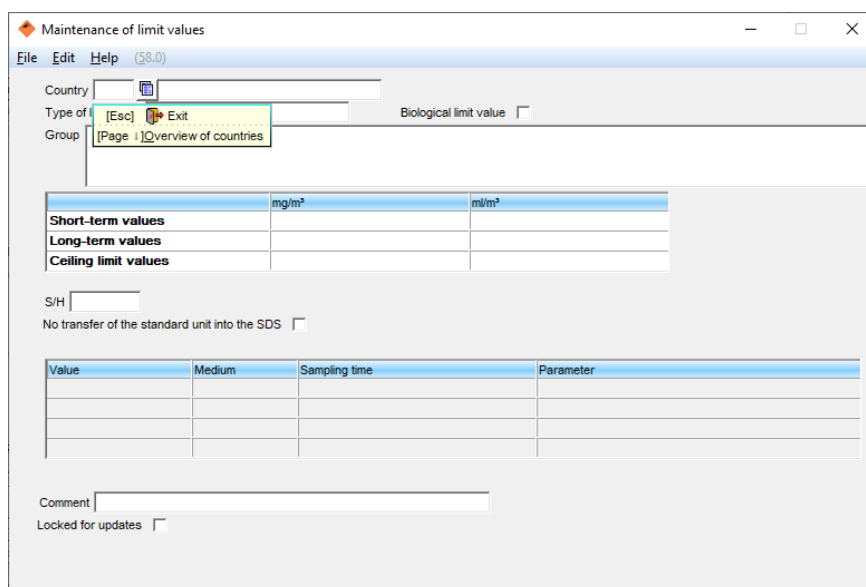
You can also enter the OELVs and / or biological limit values. For this select the **OELVs** tab (or press **Ctrl M** **OELVs**).



Please press **Ins** **Addition of a new OELV** for entering new values.

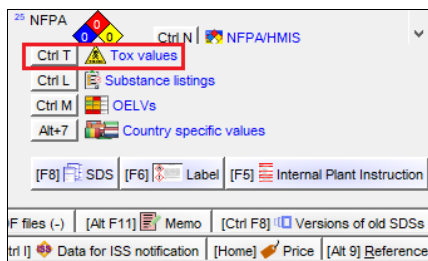


Select the required country in the input screen (*see next picture*).

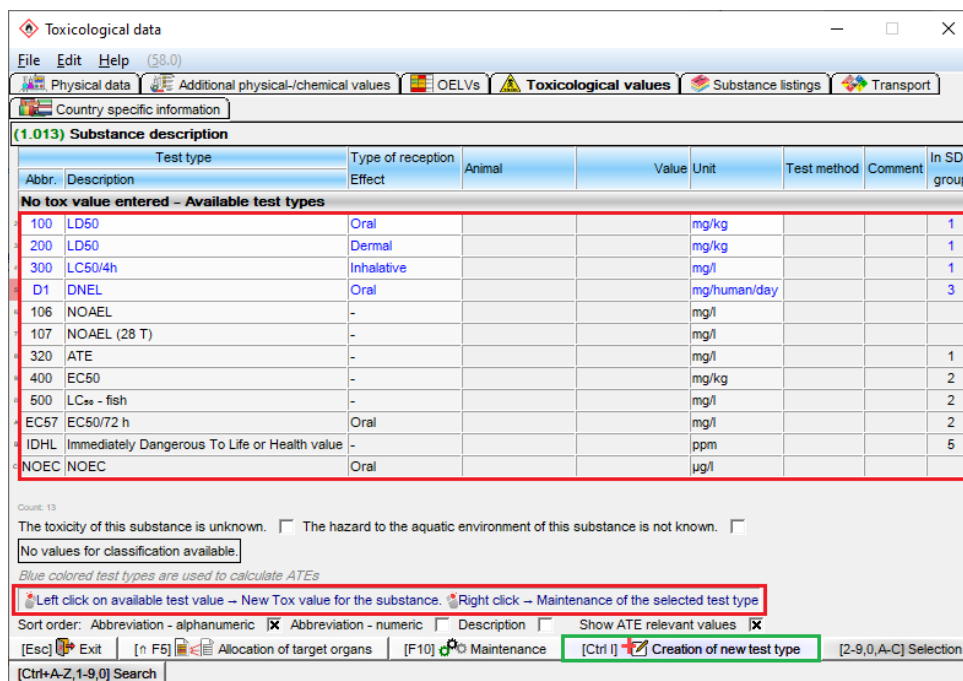


After pressing **↵** enter the type of limit value (e.g. OEL) and the corresponding values (*see section 8 of the SDS from your supplier*). By activating the item **Biological limit value** you can determine, that the entered value is a biological limit value. When you have entered all necessary data press **Esc**.

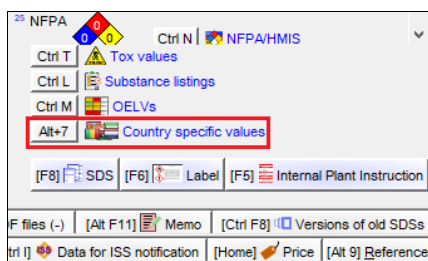
If available, enter the toxicological values (*you can find the corresponding information in section 11 of the SDS from your supplier*). To do this select the **Toxicological data** tab (or press **Ctrl T** **Tox values**):



Left-click on the required *type of test* (e.g. LD50). Select the required *species* and enter the value. If needed, you can also create further test types by pressing **Ctrl** **I**
Creation of new test types.



If available, enter the country specific information (see section 15 of the SDS by your supplier). For this select the **Country specific information** tab (or press **Alt** **7**
Country specific values):



Enter the data in the corresponding fields (see next picture).

Enter the transport data for ADR, DOT, IMDG and IATA in the screen **Transport**). You can access these screen either via **Alt+6** **6** **Transport** in the *Maintenance screen*, or via the respective menu tab.

If the substance is non-hazardous, enter a minus (-) in the field **Class**. You can find this information in section 14 of the SDS from your supplier.

Further information on the transport classification of raw materials can be found in the **General manual to ChemGes** (section **2.1.4.6 Transport classification of raw materials**).

50-00-0/1 formaldehyde				
Classification			Flashpoint ≤93 °C, Boiling-point -21 °C	
	ADR	DOT	IMDG	IATA
Class	8	8	8	8
ADR Code	CT1			
Packing group	III	III	III	III
Label	8+6.1	8, 6.1	8/6.1	8 (6.1)
Symbols				
UN number	UN2922	UN2922	UN2922	UN2922
Name	2922 CORROSIVE LIQUID, TOXIC, N.O.S. (formaldehyde)	Corrosive liquids, toxic, n.o.s. (formaldehyde)	CORROSIVE LIQUID, TOXIC, N.O.S. (formaldehyde)	CORROSIVE LIQUID, TOXIC, N.O.S. (formaldehyde)
Danger/Kemler number	86			
Marine Pollutant /	Fish and tree <input type="checkbox"/> (automatic)			
Limited quantity	5L	Rail: 5 L, (Cargo): 60 L	5L	
Excepted quantity	E1 (Inside: 30 ml / Outside: 1.000 ml)		E1 (Inside: 30 ml / Outside: 1.000 ml)	
Transport category	3			
Tunnel restriction code	E			

Count: 24, Page: 1/2

Last alteration of the transport classification: 08.09.2020 | User: XY | HazChem code: 2X | Lock

During input: Automatic transfer to the different types of transport | Recalculation of dependent other fields

[Alt Delete] Deletion of transport data | [F10] Simplified classification | [Ctrl D] Print | [Ctrl K] Copying | [Ctrl F7] Maintenance programs | [Esc] Exit

[Ctrl -] 'Non-hazardous' for all types of transportation | [Ctrl F8] Env. hazardous substances | [Page 1] Next page

After finishing these entries press **[Esc]**.

Optionally you can add or change substance list entries by pressing **[Ctrl][L]** **Substance listings** in the screen *Maintenance of raw materials*.

NFPA		Ctrl N NFPA/HMIS
Ctrl T		Tox values
Ctrl L		Substance listings
Ctrl M		OELVs
Alt+7		Country specific values
[F8]		SDS
[F6]		Label
[F5]		Internal Plant Instruction
F files (-)	[Alt F11] Memo	[Ctrl F8] Versions of old SDSs
Ctrl I	Data for ISS notification	[Home] Price
		[Alt 9] Reference

For substance lists already implemented in ChemGes, the relevant entries have been performed and are automatically available at the new creation of a substance (if the substance is listed in the respective inventory).

Substance listings

File Edit Help (58.0)

Physical data Additional physical-/chemical values OELVs Toxicological values Substance listings Transport

Country specific information

50-00-0/1 formaldehyde

Country	Abbr.	Description of the listing	Content	in the SDS from
Great Britain	PA-p1	Poisons Act - Regulated explosives precursors		>0 %
	PA-p2	Poisons Act - Regulated poisons		>0 %
	PA-p3	Poisons Act - Reportable explosives precursors		>0 %
	PA-p4	Poisons Act - Reportable poisons	5%	>0 %
	SVHCuk	Substances of very high concern (UK)		≥0,1 %
	ANNEXX	UK REACH - Annex XIV		>0 %
Not allocated to a	AD-DSL	Aerospace and Defense Declarable Substance List	R1;R2;D1;I	
	GADSL	Global Automotive Declarable Substance List	D/P(LR), D/P(FI/LR)	
Australia	AIC	Australian Inventory of Industrial Chemicals		>0 %
	AICS	Inactive listing - Australian Inventory of Chemical Substances		
	PEC	Priority Existing Chemicals		>0 %
	SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons	S2, S6, S10	>0 %
Canada	DSL	Canadian Domestic Substances List (DSL)		>0 %
	CDN 0.1%	Canadian Ingredient disclosure list (limit 0.1%)		≥0,1 %
	CDN 1%	Canadian Ingredient disclosure list (limit 1%)		≥1 %
	NDSL	Canadian Non-Domestic Substances List (NDSL)		>0 %
China	CHazCh	Catalogue of Hazardous Chemicals		>0 %
	IECSC	Chinese Chemical Inventory of Existing Chemical Substances		>0 %
EU	EINECS	EINECS	200-001-8	
	ELINCS	ELINCS		

Count: 158, Page: 1/9

Transfer into all other variations (/2, /3, ...)

[F1] Sorted by listing status [Ctrl F7] Copy listings from other substance [Esc] Exit [Insert] New [Page 1] Next page [1-9,0,A-J] Selection [Ctrl -] or [Right click] Maintenance and file outputs [Ctrl+A-Z,1-9,0] Search

Creation of preparations

ChemGes

File Edit Additional functions Help

Administration of Chemicals

Version 61.0.43 (10.12.2025, 08:06)

Printout and queries Data output Administration programs Maintenance programs

Substance

[Page 1] Overview of substances
 [F5] Next substance number
 [F6] Next free preparation number (at the end)
 [n F6] Next free preparation number (free space)
 [F10] Search for character strings
 [Ctrl -] Kit creation with self defined number
 [Ctrl F6] Next free kit number

Drag & drop functions pdf files for importing SDSs .isz files to open PCN notifications

Data and regulatory updates - Possible updates: 4

Last retrieved substances			
1.000	1234567890	Resin solution X 50	
10.000		Resin solution X 50	
84852-15-3		4-nonylphenol, branched	
10.085		Test CCA toxisch	
100-56-1		phenylmercury chloride	
108-88-3		toluene	
26490-63-1		Cobalt(II) fluoroborate	
101-14-4		2,2'-dichloro-4,4'-methylene-dianiline	
7440-05-3		palladium	
50-00-0		formaldehyde ... %	
78-78-4		isopentane	
744-05-3		Palladium	
1234-56-7		Testroststoff 1	
2		Test	
175013-18-0		N-[2-[(1-(4-chlorophenyl)-1H-pyrazole-3-yl)oxy]methyl]phenyl]-	
3		Test 556-67-2	
556-67-2		octamethylcyclotetrasiloxane	
68308-54-3		Hydrogenated tallow mono-, di- and triglycerides	
105-60-2		1,6-hexanolactam	
25068-38-6		reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (nu	
10.084		Konrad	
7429-90-5/2		aluminium powder (stabilised)	

Print SDSs Print labels

OK Exit

Enter a preparation number (product code).

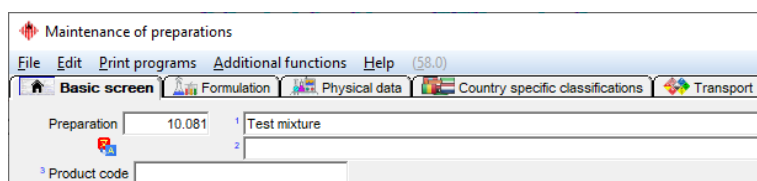
You can also let the program automatically allocate a preparation number.


In order to do this either press

(to receive the *next free number following the highest already allocated number*), or

(to receive the *first free number starting from 1*).

After that the screen **Formulation** is displayed, where you have to enter the description (and possible synonyms) of the preparation and its chemical composition (formulation).

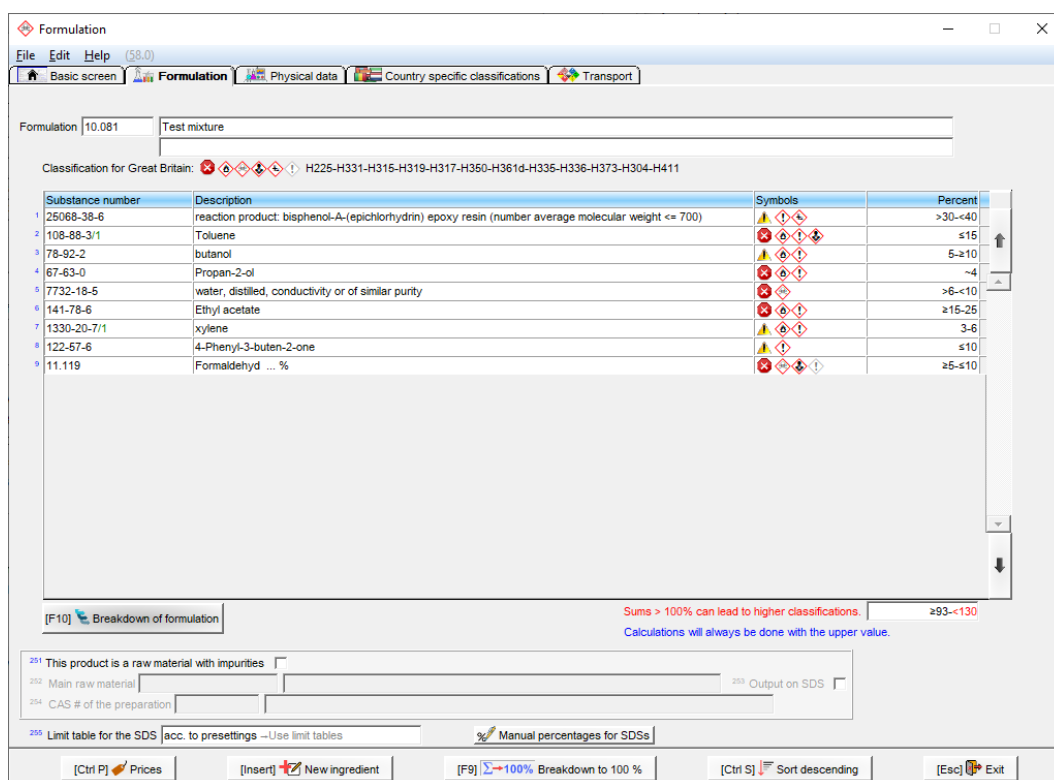


Enter the description and confirm by pressing .

Please note:

When entering the descriptions, if the row of characters (whether letters or numbers) contains 2 or more blank spaces in a row, the characters that are entered after these spaces will not be printed on the SDS.

Afterwards enter the formulation:



Information on the use of percentage ranges:

Besides the entry of values with <, >, ≤ and ≥, ChemGes also permits the use of percentage ranges. This function enables you to enter products 1:1 based on the SDS by your supplier in the database and have them classified. For example, if your supplier states the ingredients in Section 3 as percentage ranges, you can simply enter the percentage ranges as stated in the SDS in the screen **Formulation**. ChemGes automatically calculates the classification, based on the entered ranges.

Please find further information on this screen in the *General manual to ChemGes* under **Formulation** (http://www.dr-software.com/Downloads/chem_eng.pdf).

Information on the entry of the components:

Your attention is particularly drawn to the fact, that the formulation must not contain the raw materials, but the ingredients of the final composition only - which do not necessarily have to be the same (keep chemical reactions during the manufacturing process in mind).

If you know the CAS-numbers of the individual components, you can directly enter them into the column **Substance no** directly. Alternatively you can search for a substance via CAS-number, first letter or part of the name. To do so, press Page ↓ and enter the required search term.

If the entered search term applies to more than one substance, you will receive a list of all substances that match the entered search term. You can select the appropriate substance from this list by clicking on it.

When you have entered the component the cursor automatically moves to the field **Percent**, where you have to state the contents in %. After this entry the cursor moves into the next line to the field **Substance**. This enables you to enter all components and their percentages one after the other. Entering of the formulation is finished if:

- the formulation reaches exactly 100% after the entry of the last raw material
- for formulations below 100 %: If you press ↵ in the field **Substance**, instead of entering a number.

Important information:

The program will regard the difference to 100% as non-hazardous and will consider it solid or liquid - depending on your settings for the item **The remainder to 100% in preparations is solid /liquid** of the screen **Default values** [Ctrl 4 **Maintenance programs – Program adjustments**]. Furthermore, you are not required to enter substances that are not hazardous and will not become thus. The program will perform the abovementioned functions for the remainder.

Once you have entered all ingredients and percentages press Esc to finish.

Note: For formulations that fall below 100 % and do not contain percentage ranges you can let the program recalculate the individual percentages of the ingredients aliquotely by means of the button F9 **Splitting up to 100%** (lower menu bar of the screen **Formulation**), in order to set the formulation to exactly 100%.

Press Esc once more to switch to the screen **Physical data** (see next picture):

All yellow fields must be checked and if necessary corrected. These fields can be altered, by selecting them with the mouse or by entering the appropriate field number and pressing . You do not have to select fields with correct contents - the yellow marking will disappear later on.

If necessary, you can enter the pH-value manually (for corrosive substances).

Entry of value ranges, values with <, >, ≤ and ≥:

For physical data you can also enter value ranges (meaning values from-to) with/without decimal places, or values with <, >, ≤ and ≥.

For the input of value ranges enter the desired values separated by a hyphen („-“).

Additionally, approximated values can be entered by means of „~“ (circa).

Values with „≥“ and „≤“ can be generally entered in the program as „>“= and „<“=.

ChemGes automatically converts the entered characters accordingly.

ChemGes uses these values for the calculation as usual.

Example:

80 to 100 minus >40 to <50 = >30 to <60

Calculation:

→ 80 - >40-<50 → >30-<40

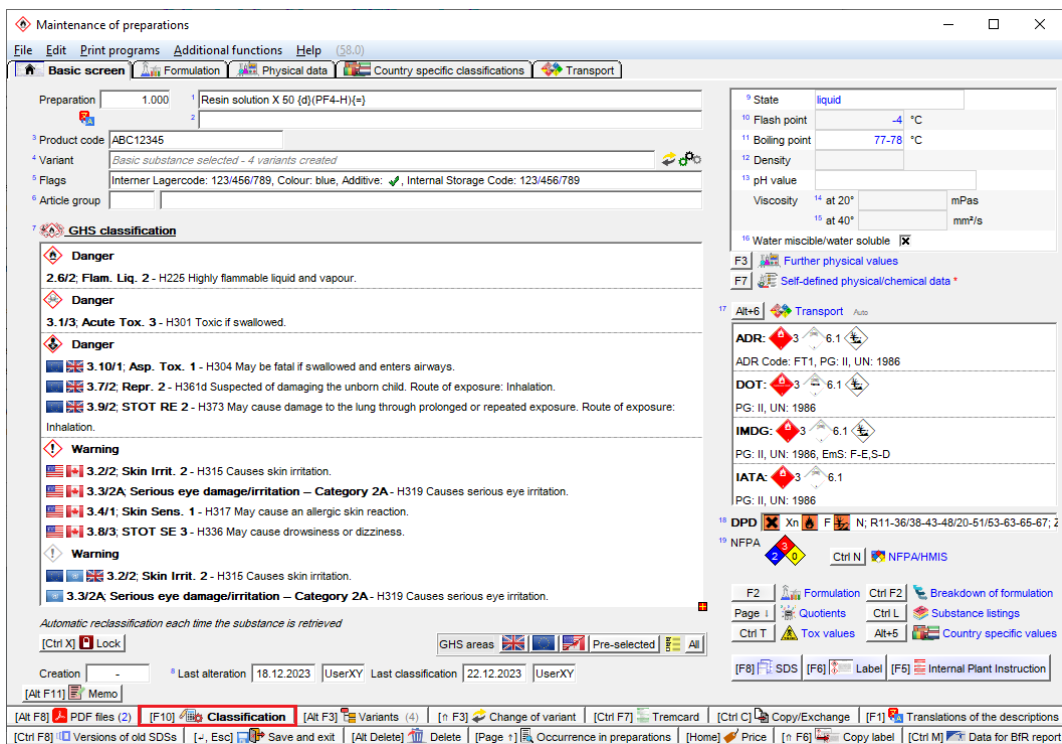
→ 100 - >40-<50 → >50-<60

This results in a range of >30 to <60 (lowest and highest possible limit).

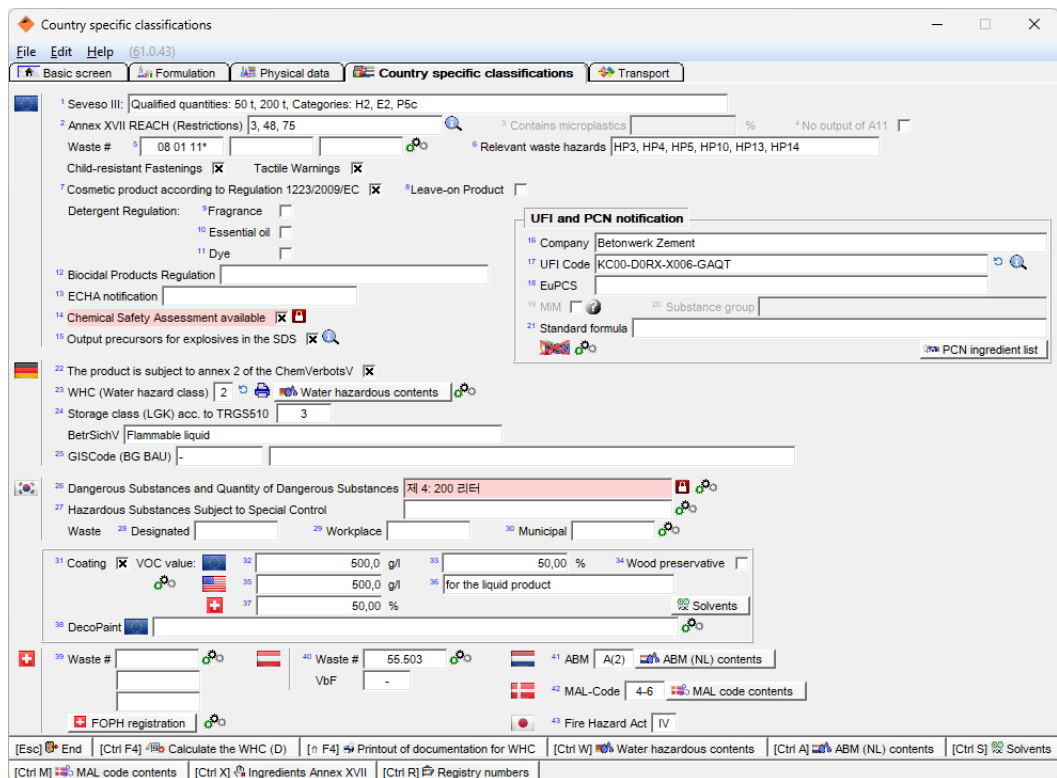
Note on the fields for flammability (right lower part of the screen):

Grey fields are inactive, as they are not applicable for the selected state of aggregation. If you have checked all items, you may switch to the basic window of the created preparation by pressing either or .



If you have activated the option for the **Automatic classification** - *When a new preparation is created* the screen **Classification options** [**Maintenance programs – Program adjustments**], the program will classify the preparation automatically according to **GHS** (CLP, UN GHS, US GHS, CA-GHS (HPR), further national classifications, self- classifications) and **DPD** (Dangerous Preparations Directive 99/45/EC) based on the entered data. If this option is deactivated, you simply have to press **Classification** to classify the preparation (see next picture).




Now select the screen *Country specific classifications* (via **Alt** **5**), or item **Preparation screens** in the upper menu bar), which contains important data for the Safety Data Sheet.



The **Water Hazard Class** (for Germany (**WHC**) and the Netherlands (**ABM**)), the *German BetrSichV* and the *VbF for Austria* are calculated based on the entered physical data and the formulation.


By means of the function   **Printout of documentation for WHC** you can print the documentation for self-classified mixtures („*Dokumentationsformblatt für Gemische*“ according to AwSV, Annex 2, number 2).

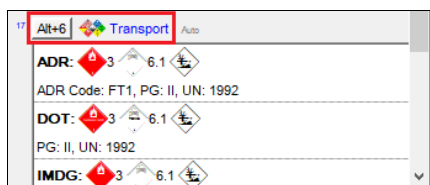
The **Waste #** according to the *European Waste Code* (EWC, EAK), according to the *Austrian ÖNORM S 2100*, the Swiss *Verordnung des UVEK über Listen zum Verkehr mit Abfällen (SR 814.610.1)* and the Ukrainian *Постанова про затвердження порядку класифікації відходів та Національного переліку відходів, № 1102, 20.10.23*) can be entered manually or selected from an overview screen (to retrieve this overview click the respective field and press ).


Via the field **Coating** you may activate and deactivate all fields for the **VOC**. If the field **Wood preservative** is activated, the EU-VOC-values are calculated according to a different formula.

The field **MAL-Code** contains the code, which is automatically calculated from the MAL-factors of the substances. If these MAL-factors are not available, the code is calculated from the Danish OELVs (*occupational exposure limit values*) and the classification.

Note: Information on the fields for **UFI-Code**, **EuPCS** and **PCN** can be found in the general manual to ChemGes and in the guide **PCN notification** on our website at <https://www.dr-software.com/en/downloads.html>.

Afterwards you can have the **transport classification** calculated. You can access the screens **Transport** either by  **Transport** in the *Maintenance screen* of the preparation, or by clicking the respective menu tab.



The program is able to automatically calculate the transport classifications for preparations, which contain substances of the classes 3, 6.1, 6.2, 8 and 9 and aerosols of class 2, according to a simplified procedure in a nearly fully automatic way by pressing .

File Edit Additional functions Help (58.0)				
Basic screen Formulation Physical data Country specific classifications Transport				
1.000 ABC12345 Resin solution X 50 {d}(PF4-H){=}				
Classification H225-H301-H315-H317-H361d-H335-H336-H373-H304-H411 Flashpoint -4 °C, Boiling-point 77-78 °C, Volume ≤ 30 L				
	ADR	DOT TDG TMD	IMDG	IATA
Class	3	3	3	3
ADR Code	FT1			
Packing group	II	II	II	II
Label	3+6.1	3, 6.1	3/6.1	3 (6.1)
Symbols				
UN number	UN1986	UN1986	UN1986	UN1986
Name	1986 ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (ETHYL ACETATE, TOLUENE), ENVIRONMENTALLY HAZARDOUS	Alcohols, flammable, toxic, n.o.s. (Ethyl acetate, Toluene)	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (ETHYL ACETATE, TOLUENE), MARINE POLLUTANT	ALCOHOLS, FLAMMABLE, TOXIC, N.O.S. (ETHYL ACETATE, TOLUENE)
Danger/Kemler number	336			
Marine Pollutant /	Fish and tree <input checked="" type="checkbox"/> (automatic)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Limited quantity	1L	Rail: 1 L, <input checked="" type="checkbox"/> (Cargo): 60 L	1L	
Excepted quantity	E2 (Inside: 30 ml / Outside: 500 ml)		E2 (Inside: 30 ml / Outside: 500 ml)	
Transport category	2			
Tunnel restriction code	D/E			
Count: 24, Page: 1/2				
Last alteration of the transport classification 22.12.2023 User:XY HazChem code +3WE Lock				
During input: <input checked="" type="checkbox"/> Automatic transfer to the different types of transport <input checked="" type="checkbox"/> Recalculation of dependent other fields <input checked="" type="checkbox"/>				
[Alt Delete] Deletion of transport data [F10] Simplified classification [Ctrl I] Classification of contents [Ctrl C] Calculation data for class 8 [Esc] Exit				
[Ctrl D] Print [Ctrl K] Copying [Ctrl -] 'Non-hazardous' for all types of transportation [Ctrl F7] Maintenance programs [Page I] Next page				

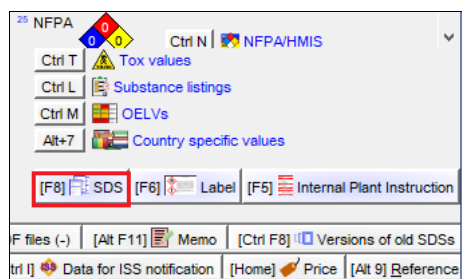
Attention:

As the transport classification is a very complex matter and explaining all situations that can occur, would be too extensive for this short introduction, we recommend that you read the more comprehensive description in the *General manual to ChemGes* (section 2.2.3.9. *Transport classifications of preparations*) or the online help for further details.

After checking and - if necessary - correcting the fields, return to the basic screen (by means of the tab menu, or the item **Preparation screens** in the upper menu bar).

Creation of Safety Data Sheets

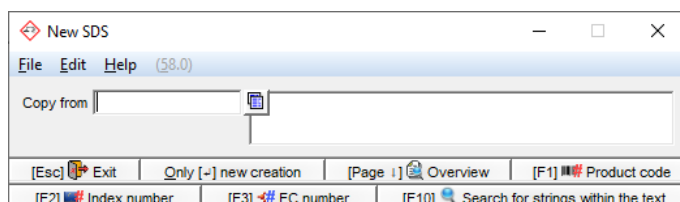
When all previous items have been completed correctly, you may generate the Safety Data Sheet out of the basic screen of the preparation by pressing **[F8]** **SDS**.



After pressing **[F8]** the program will ask you for the required country (only, if your program includes at least 2 language modules for the SDS). Select the required country from the overview. You can also search for text here by directly entering the requested characters.



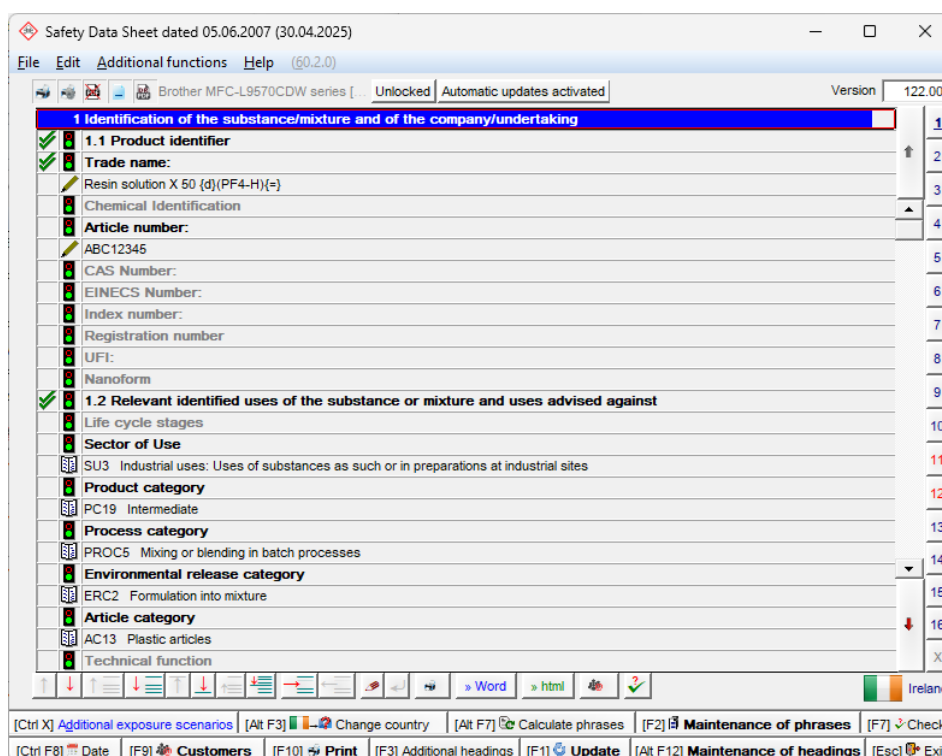
Afterwards the program displays the following query:








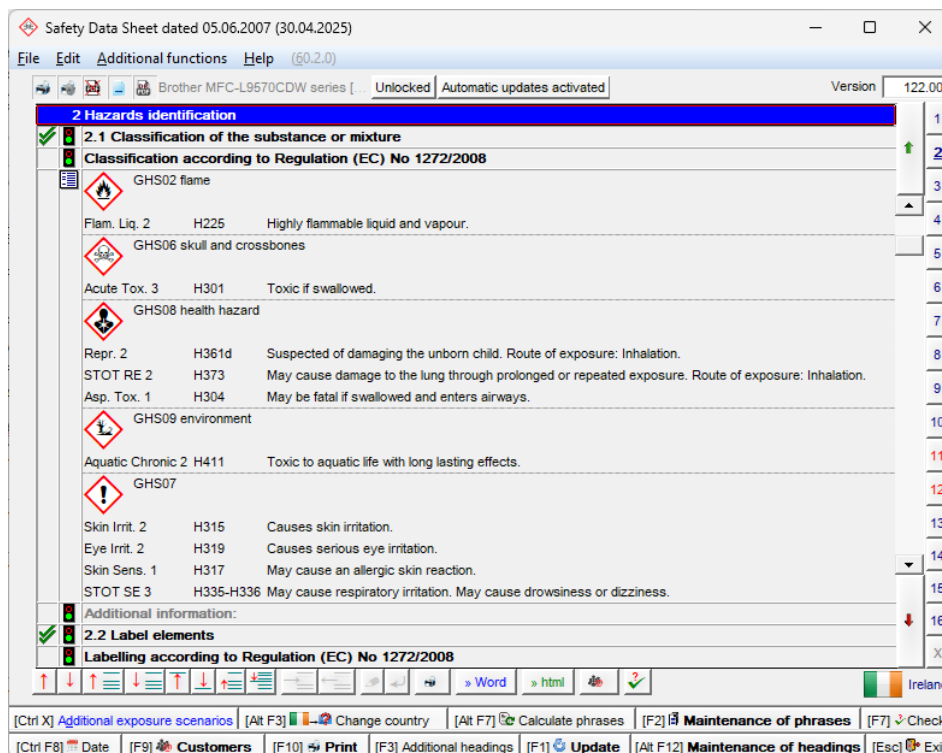
This window enables you to **copy** an already **existing** Safety Data Sheet to a new number. In order to do this, enter the required substance, from which the SDS shall be copied (you can also search for the required substance by pressing **[Page ↓]** and entering a search term in the displayed screen).

If you press **[↵]** without entering anything, the program will create a new Safety Data Sheet for the formulation.

Within a short time the first screen of the SDS will appear:



By means of the arrow keys  and  or the bar on the right margin of the window you may scroll through the SDS as required. By means of the buttons  -  and  you can switch to the beginning of the respective section.



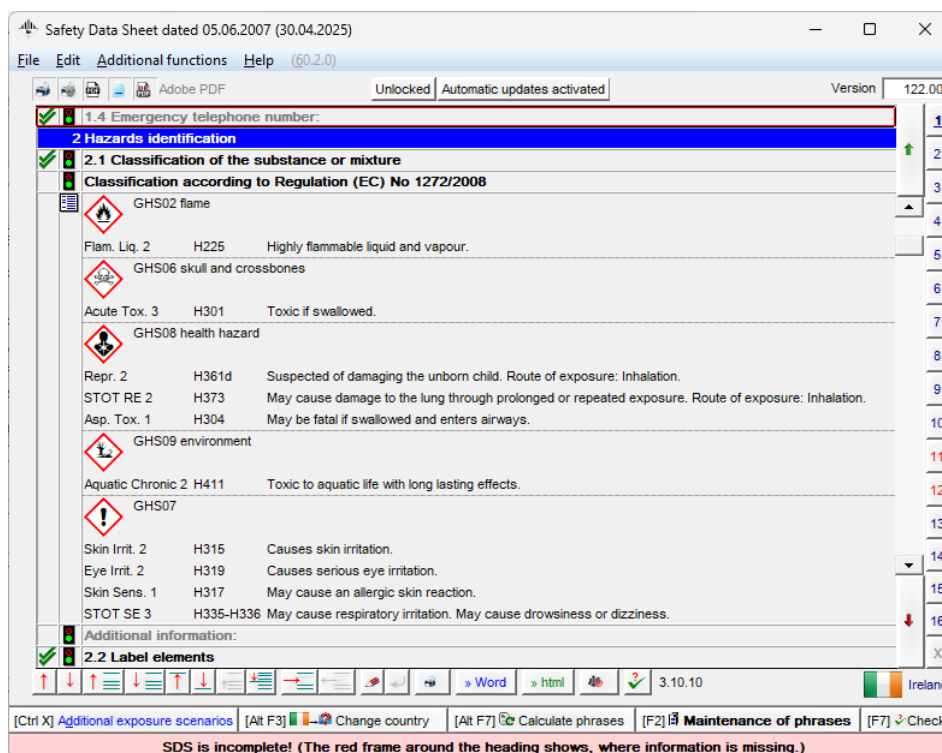
Note:

The following pages contain information on the SDS according to REACH, resp., according to GHS. Further details can be found in the **General Manual to ChemGes**

(e.g. see sections *SDS according to REACH* and *SDS according to GHS*) or in the **Online help file**.

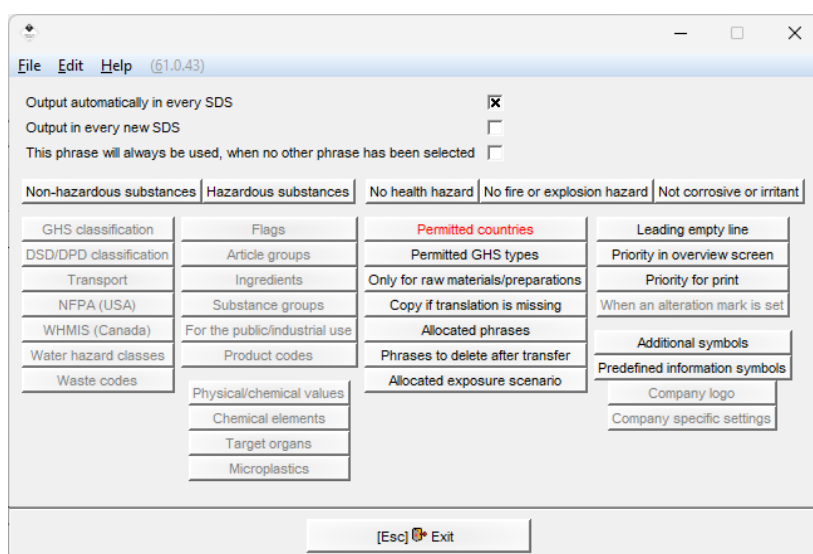
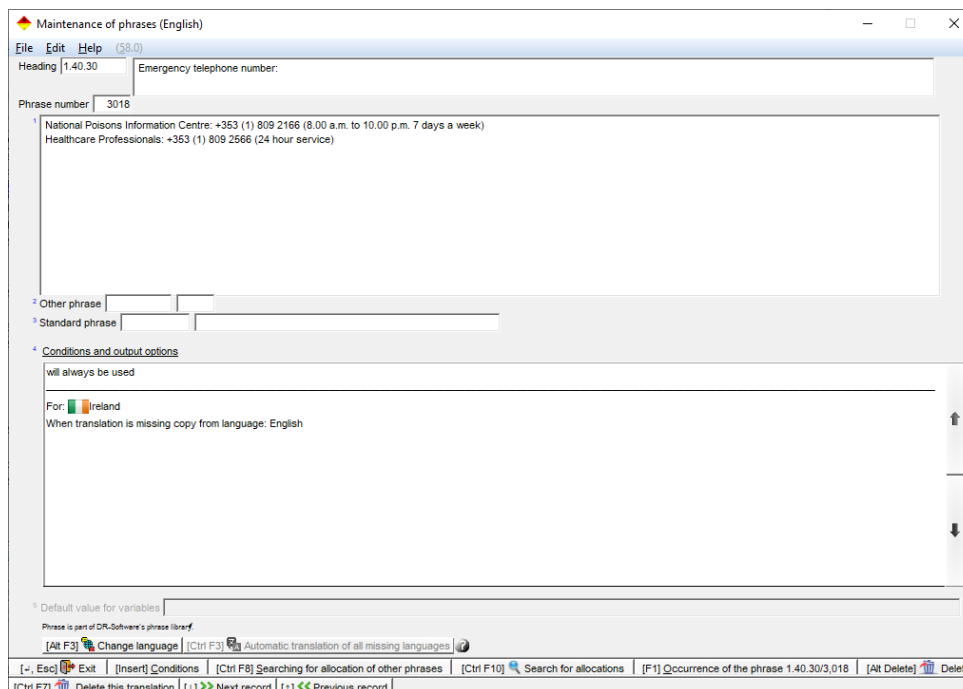
Some information in the SDS is mandatory (e.g. emergency telephone number).

If such information is missing in the SDS, it cannot be printed. In these cases ChemGes automatically displays a message at the screen bottom, saying that the SDS is incomplete (see next picture) and the cursor (red frame) indicates the area (heading) that needs to be completed, as soon as you press either **F10** (printout of complete SDS) or **⇧ F10** (printout of single pages).



You can directly switch to the maintenance of the phrases for the relevant heading by pressing **F2** **Maintenance of phrases**. Here you can either select one of the already created phrases for this heading, or create a new phrase.

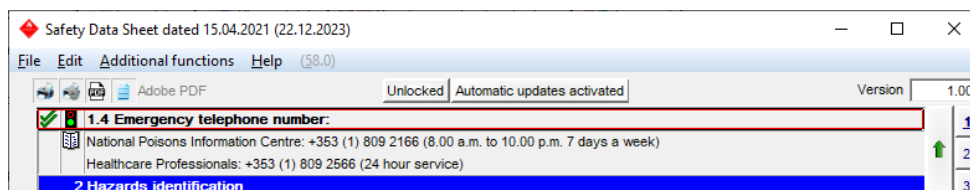
By means of **Ins** **Conditions** (see next picture) you can allocate conditions for the output of the selected phrase, as well as change already defined output conditions.



Specific information on section 1 of the REACH-SDS

a) Emergency telephone number:

The statement of an emergency telephone number in the SDS is obligatory according to REACH (ChemGes standard heading 1.40.30 (1.4) "*Emergency telephone number*").



Note:

The heading "*Emergency telephone number*" is marked with the symbol "Green double hook" (see previous picture). If this has not been filled in, the SDS is regarded as incomplete and cannot be printed.

Emergency phone numbers (standard phrases) can also be activated countryspecifically for the automatic output in *Maintenance programs – Safety Data Sheets – Activation of emergency phone numbers*:

Phrase number	Text	Activated	Suggested countries	Selected countries
3,001	Vergiftungsinformationszentrale (VIZ) - (+43) 1 406	<input checked="" type="checkbox"/>	Austria	For: Austria
3,003	Antigifocentrum - 070 245 245 (+32)	<input type="checkbox"/>	Belgium dutch	No output
3,002	Centre Antipoisons - (+32) 070 245 245	<input type="checkbox"/>	Belgium french	No output
3,006	Национален токсикологичен информационен център	<input type="checkbox"/>	Bulgaria	No output
3,007	Centar za kontrolu otrovanja - (+385) 01 2348 342	<input type="checkbox"/>	Croatia	No output
3,008	Υπουργείο Εργασίας, Πρόνοιας και Κοινωνικών Ασφαλίσεων	<input type="checkbox"/>	Cyprus	No output
3,009	Toxikologické informační středisko - (+420) 224 91	<input type="checkbox"/>	Czechia	No output
3,010	Gifftiljen - (+45) 8212 1212	<input type="checkbox"/>	Denmark	No output
3,011	Terviseameti mürgistusteabekeskuse - 16662, (+37)	<input type="checkbox"/>	Estonia	No output
3,012	Myrkytystietokeskus - 0800 147 111, 09 471 977	<input type="checkbox"/>	Finland	No output
3,013	ORFILA (INRS) : + 33 (0)1 45 42 59 59 - Centres A	<input type="checkbox"/>	France	No output

It is your responsibility to enter into any necessary contracts with the emergency service providers you choose.

Click on the phrase number or text to go to the maintenance of that phrase.

Deactivation means that the phrase will not be output in any country. This means that already existing country assignments will be removed. All conditions for the output of the phrase will be preserved, as they will no longer have any effect.

After activating a phrase, the program proceeds as follows:

- If conditions for the output are already set, then they are kept, otherwise it is defined that the phrase is output in every SDS. Due to the country selection, the phrase will only be output in the desired countries.
- The suggested countries will be added to any already selected countries.
- The language that will be displayed on the screen is defined as a substitute language in case of missing translations, even though this will usually have no effect.

If there is no checkbox in the 'Activated' field, then this phrase can only be activated in the maintenance of phrases, because there is not enough information for automatic activation.

If the output countries are changed, then above conditions for activation/deactivation are set.

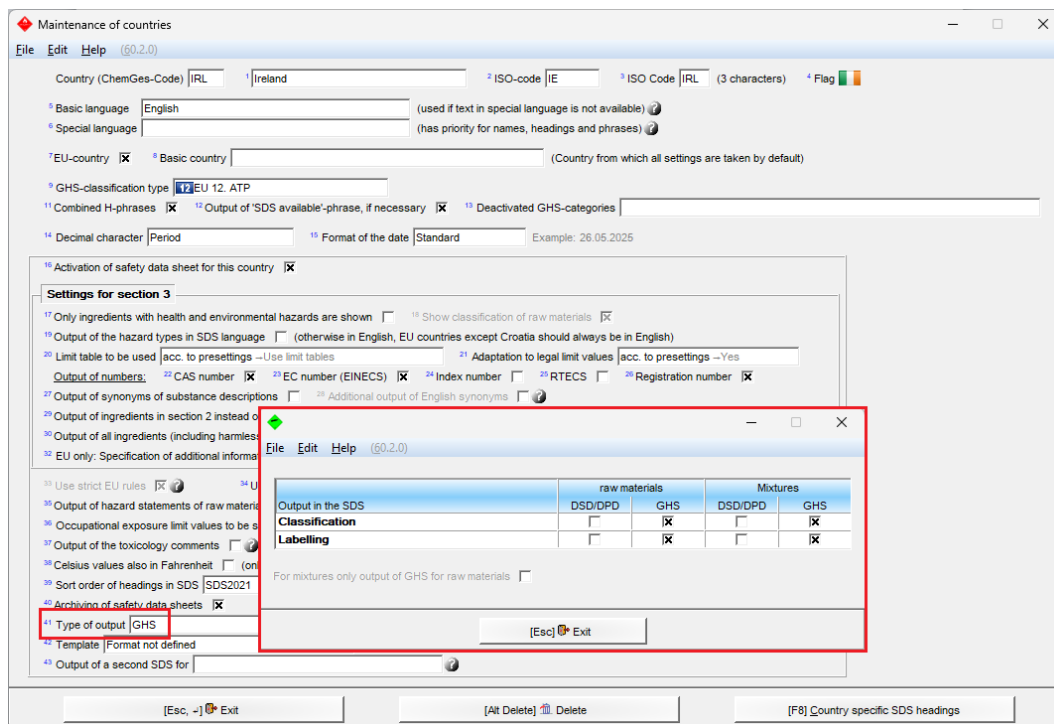
[Esc] Exit [Page |] Next page [1-9,0,A] Selection [Ctrl+A-Z,1-9,0] Search

b) Email address of the competent person in section 1:

The statement of the e-mail address of the competent person is obligatory since June 1, 2007.

Settings for the output of GHS information in the SDS

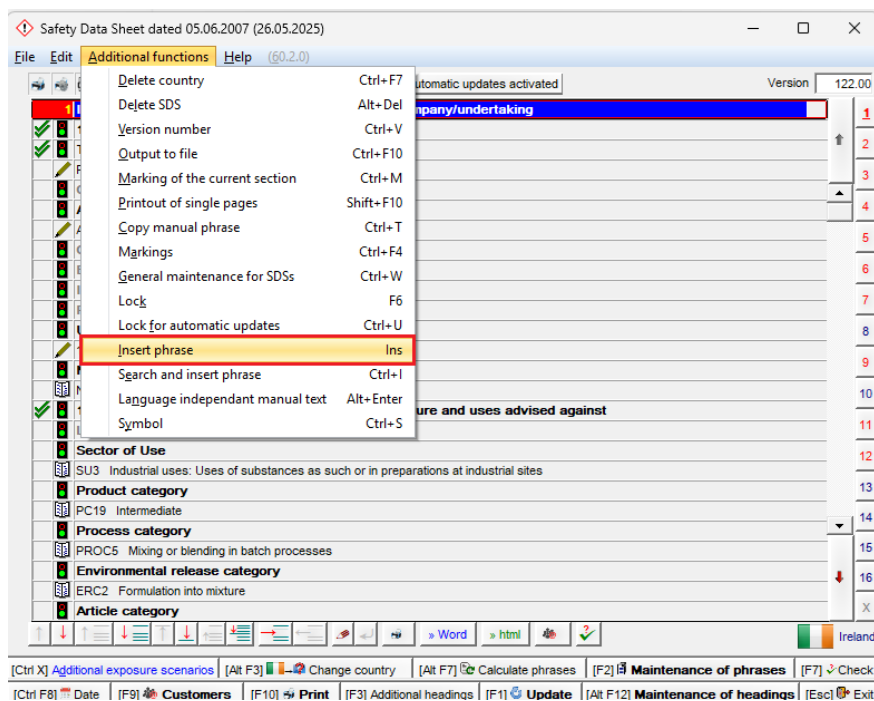
The output of the GHS labelling and classification information in the SDS can be defined for raw materials and mixtures country specifically in the screen *Countries* [Ctrl] 4 [Maintenance programs – Various tables – Countries]. The standard settings are done according to the respective valid national legislation. You can change these standard settings by means of the item **Type of output**:



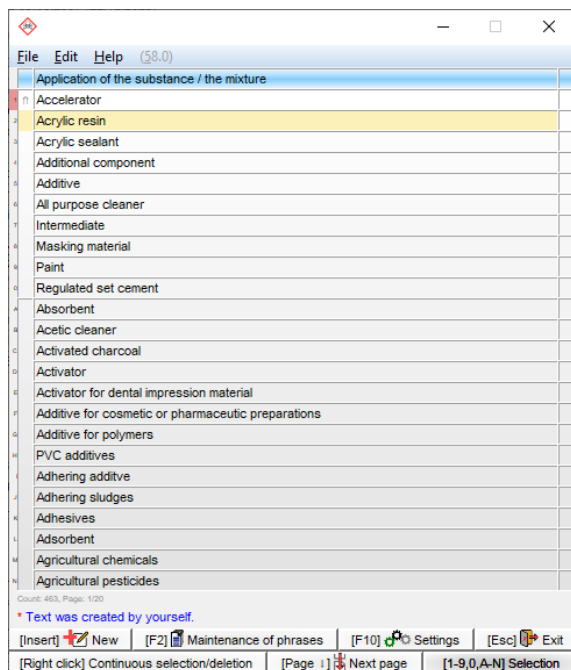
Specific information on the application of the product in section 1 of the SDS:

According to EC-Guideline the intended application of the product has to be stated in section 1 of the SDS under the heading number 1.30.70.80 *Application of the substance/the preparation*. We have already created many standard phrases (phrase numbers 300 to 761) and their respective translations for this heading, from which you can select the appropriate ones.

To do this, position the cursor (red frame) on the heading *Application of the substance/the preparation* and select the item **Additional functions** (upper menu bar) by clicking on it. Select the item *Insert phrase* **Ins** (see next picture). Alternatively you can also search for phrases by means of **Ctrl** **I** **Search and insert phrase**.



After selecting this item you will receive an overview of all phrases that are already available for this heading (see next picture):

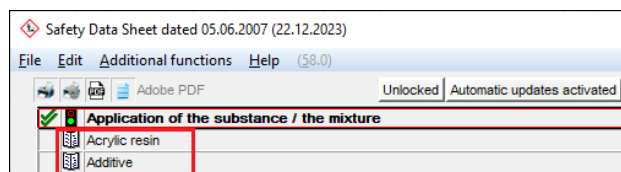


You may select one or more phrases by clicking the respective line.


Note:

You can directly create your own phrases under this heading by means of the button **New** [Ins] (see previous picture). If you create a phrase by means of [Ins] here, this phrase is automatically stated in the selected SDS when you return to the SDS screen (by means of [Esc]). You can of course also create new phrases in the *Maintenance of phrases* [Ctrl] 4 **Maintenance programs – Safety Data Sheets – Text modules**] at any time. However, please note, that in both cases all possibly necessary translations have to be at your disposal.

Afterwards the selected phrases are stated under the heading 1.30.70.80 *Application of the substance/the preparation* (see next picture).



The selected phrases (in the respective translations) are adopted automatically into all country versions of the respective SDS. To print the completed SDS, press [F10].


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Safety data sheet
 according to Regulation (EC) No 1907/2006, Article 31

Printing date 03.09.2024 Version number 117.00 (replaces version 116.00) Revision: 03.09.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
 - Trade name: **Resin solution X 50**
 - Article number: ABC12345
 - NLP Number: 500-033-5
 - Index number: 603-074-00-9
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - Sector of Use SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - Product category PC19 Intermediate
 - Process category PROC5 Mixing or blending in batch processes
 - Environmental release category ERC2 Formulation into mixture
 - Article category AC13 Plastic articles
- Application of the substance / the mixture
 - Additive
 - Acrylic resin
- 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

The following possibilities for correction are available within the whole SDS:

- Lines that have the symbol "open book" (standard texts) or "pencil" (manual texts) can be selected with the cursor or the mouse and can be deleted with Del.
- New standard texts can be inserted by clicking the appropriate heading- or text line with the mouse and by pressing Ins. If standard phrases are available for this heading you may select the required phrases from the displayed overview. These phrases will also be translated automatically into other languages (on condition that the respective language module is at your disposal).
- To create your own texts, press Enter, ↵ or the arrow key → in the line where the phrase shall be edited. After that a text field will appear, where you can enter up to 25 lines manually. To return to the SDS press Esc. Please note that a manually entered text will **not** be considered during the automatic translation and will not be translated in other languages.

The fully automatic creation of SDSs is correct in all relevant fields, if you have completed the following items prior to generating the SDS:

- You have to enter all relevant ingredients (also water!) of the formulation, which shall be calculated.
- All raw materials, that have to be labeled, have to be registered in the database of ChemGes with all relevant data
- The fields in the preparation screens have to be checked and – if necessary - corrected.
- The formulation **must** be classified prior to the creation of the SDS.
- The transport classification has to be calculated or to be entered manually.

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