

ChemGes – Update 1/2010

Version 31.1.1

Please note that this Update contains extensive changes to the Database.

For this reason, the Update may take a long time.

Please backup your program and data, as normally before an Update.

Let the Update run completely and do not turn off your computer while the Update is running, as this can lead to massive data loss.

Installation:

In order to install the CD-ROM, place it into the disk drive, start ChemGes and go to *Administration Programs – Updates and Upgrades – Program and data update from CD-ROM*. The Update will start automatically as soon as the CD-ROM is recognized.

Please note that your program must at least be at Version 30.0 in order for your Update to be done.

We would like to remind you of our internet homepage address, where you can also retrieve the Update:

<http://www.dr-software.at> or <http://dr-software.at> (1st page in German).

<http://www.dr-software.com> or <http://dr-software.com> (1st page in English).

Information for downloading the Update from the webpage:

After retrieving the first page one must choose a language. Thereafter, by clicking on *Downloads* in the left frame, one can access the downloads page.

The following description contains all changes and improvements that have been made in ChemGes since Version 30.0.

Contents

A. Data Update	2
1. CLP REGULATION – 1 ST ADAPTATION.....	2
2. TLV-VALUES.....	2
3. SUBSTANCE NAMES IN TURKISH	2
4. AEROSOL DISPENSERS – COUNCIL DIRECTIVE 75/324/EEC.....	3
5. IMDG CODE - SEGREGATION GROUPS / CHAPTER 3.1.4	6
B. Program Update	9
1. NEW STRUCTURE OF MSDS-HEADINGS	9
2. MAINTENANCE OF COUNTRIES.....	10
3. CLASSIFICATION OPTIONS.....	10
4. TRANSPORT ADJUSTMENTS.....	11
5. INDIVIDUAL FILE CREATIONS	12
6. M-FACTOR.....	12
7. LABELS.....	13
a) Position of symbols	13
b) Settings.....	15
8. MAINTENANCE OF RAW MATERIALS – TOXICOLOGICAL VALUES	16

A. Data Update

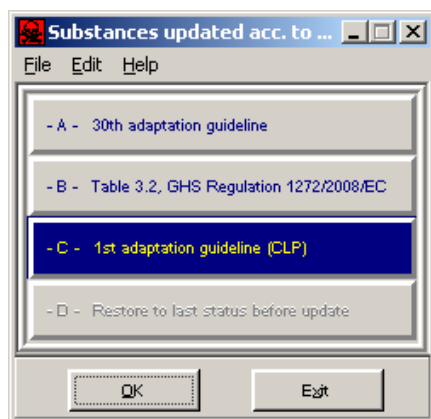
1. CLP Regulation – 1st adaptation

With this update the 1st adaptation, as announced in the Official Journal of the European Union (Regulation 790/2009/EC), is integrated in ChemGes.

In preparation for the programming our chemical experts checked the substance list for diverging descriptions, consistent classification data and possibly displaced text elements in the table several times with high effort and revised it correspondingly, in order to guarantee the completeness and correctness of all substance descriptions, as well as of the respective hazard- and precautionary statements of the individual substances.

All substances, which were amended with respect to labelling and classification, as well as new substance entries, have been listed in a text file with their CAS-numbers. This text file is stored as *CAS.txt* in the program directory of ChemGes (usually “chem”).

During the Update you will be asked whether you want to transfer the alterations / supplementations according to ATP 1. You can answer this query with *No*, if you want to perform this part of the Update at a later point in time. For this go to *Administration programs – Updates and Upgrades – Substances updates acc. to EU guidelines* and select the item **C - 1st adaptation guideline (CLP)**.



2. TLV-Values

With this Update, new threshold values for Croatia, Finland, Germany (AGW), Japan, EU, Poland, Canada (British Columbia and Ontario) and Spain will be transferred.

Note:

During the Update, you will be asked whether the previous threshold values can be deleted. This question should only be answered with “No”, if you have entered additional threshold values manually and these are not locked.

New Lists in ChemGes:

China:

The limit values according to the Chinese Standard GBZ2.1-2007 were newly adopted.

3. Substance names in Turkish

With this update the official Turkish translation of the substance names according to Guideline 67/548/EEC have been implemented.

4. Aerosol dispensers – Council Directive 75/324/EEC

With this update the following changes for EC Directive on aerosols (75/324/EEC in its latest valid version) have been integrated in ChemGes:

1) Maintenance of raw materials

The new field **Chemical heat of combustion** (kJ/g) has been added in the screen *Physical data II*. By means of a value entered in this field you can influence the assessment of the flammability of the aerosol.

The screenshot shows the 'Physical data' window with the 'Physical data II' tab selected. The 'Chem. heat of combustion' field (10) is highlighted with a red box and contains the value 'kJ/g'. Other fields include:

- 01 pH-value at: [] g/l water [] °C []
- 02 acid, base, neither/nor (radio buttons)
- 03 Viscosity: 20 °C [] 0,6 mPas
- 04 [] °C []
- 07 Ignition temperature: 535 °C
- 08 Deflagration temperature: [] °C
- 09 Max. explosion pressure: 6,8 bar
- 10 Chem. heat of combustion: [] kJ/g
- 11 Explosion group (DIN): II A
- 12 Temperature class (DIN): T1
- Explosion limits: 05 lower: 1,2 Vol %, 46 q/m²; 06 upper: 7 Vol %, 270 q/m²
- 13 Miscibility with water: []
- 14 Soluble in / miscible with: []
- 15 Solubility in water at: 15 °C [] 0,5 g/l 16 °C [] g/l
- 17 Miscible or soluble in water (internal flag) []

2) Maintenance of preparations:

The new items **Chemical heat of combustion** (kJ/g) and **The Aerosol is: extremely flammable / flammable / non-flammable** have been added to the screen *Physical data*. Like in the *Maintenance of raw materials* you can also influence the assessment of the flammable properties of the aerosol by entering a value in the field *Chemical heat of combustion* (in connection with the field **Flammable substances**).

In addition you can define your preparation as *extremely flammable / flammable / non-flammable* by activating the respective option of the item **The aerosol is:**

Both items are only active, if the state "aerosol" is selected (see next picture).

Physical values and general information

File Edit Preparation screens Help

Land transport Sea and air transport

Basic screen Formulation **Physical data** Flammability Country specific classifications

Purpose: 01 Public
 02 Industry or trade
 03 The product will be applied by spraying or splattering
 04 State at normal temperature and 1 bar aerosol
 05 Product is in aerosol package or container with sealed spray attachment
 06 Flash point 26 °C 16 ph-value
 07 Boiling point 77 °C 17 Viscosity at 20°C mPas
 08 Water miscible/water soluble 18 Contains >= 10 % nitro cellulose
 09 Density g/cm³
 10 Solids 50,0 %
 11 Flammable substances 50,0 %
 12 Chemical heat of combustion kJ/g
 The aerosol is: 13 extremely flammable
 14 flammable
 15 non-flammable

Field number

[Esc] Eqd [Ctrl F4] Ee-calculation (without flashpoint) [Ctrl P] Additional physical-/chemical values

The screen **New calculation of physical data** (**Ctrl** **F4**), see previous picture) also contains the new items **Chemical heat of combustion** and **Flammability of aerosol**. If these items are activated, you can let the respective values be recalculated automatically after alterations of the formulation or of physical data.

New calculation

File Edit Help

01 Boiling point
 02 Water miscibility
 03 Density
 04 Nitro cellulose
 05 Content of solids
 06 Flammable substances
 07 Chemical heat of combustion
 08 Flammability of aerosol

Field number

[←, F10] Calculation [Esc] Exit

[F1] All 'Yes' [F2] All 'No'

3) Administration programs – Classification programs:

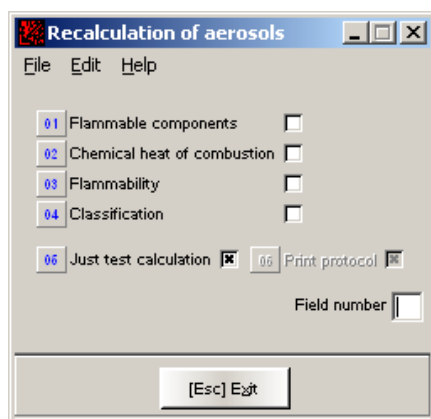
Classifications

File Edit Help

- A - New classification of all formulations	- G - Recalculation of flammability of aerosols
- B - New classification of all formulations with file	- H - Recalculation of all water hazard classes
- C - New classification of all formulations with particular substance	- I - Recalculation of all TremCards
- D - Recalculation of the safety phrases for all formulations	- J - Conversion prices
- E - Recalculation of transport classifications	
- F - Recalculation of the environmental hazard for transport	

OK Exit

The *Classification programs* have been extended by the menu item **Recalculation of flammability of aerosols**.



By activating the respective items in this screen you can have the *flammable components*, *chemical heat of combustion*, *flammability* and / or the *classifications* of all aerosols recalculated. Here you can also perform either a test calculation with a printout of the alterations or a final recalculation within the files (with or without protocol print).

Please find a sample below:

31.03.2010	Recalculated aerosols
Preparation 1.000	Product code 1234567890
Description Resin solution X 50	
Hazard symbols: F+ > Xn F+ N (Xi)	
Risk phrases: 12 > 12-36/38-43-48/20-51/53-63-67	
Safety phrases: - > 2-13-16-23-24/25-26-29/56-33-37-43h-46-51-52-57-60-64	
Special product phrases: - > 2-90-91	
<hr/>	
Preparation 5.102	
Description Test Aerosol	
Flammability: > Extremely flammable	
Hazard symbols: Xi F > Xi F+	
Risk phrases: 11-36/37 > 12-36-67	
Safety phrases: 2-9-16-25-26-33-46-51 > 2-16-23-25-26-29/56-33-43h-46-51-60-64	
<hr/>	
Preparation 5.103	
Description Test Rezeptur	
Flammable substances: - > 1,0	
Flammability: > -	
Safety phrases: 2-13-36-46-52 > 2-13-23-36-46-51-52-56-60	
Special product phrases: - > 90-92	
<hr/>	
Preparation 5.234	
Description test	
Flammable substances: 48,0 > 28,0	
Flammability: > Extremely flammable	
Safety phrases: 2-3-25-26-29/56-33-43h-46-51-60-64 > 2-3-16-23-25-26-29/56-33-43h-46-51-60-64	
Special product phrases: 90-92-94 > 90-91	
<hr/>	
Preparation 10.019	
Description Test	
Flammability: > Extremely flammable	
Hazard symbols: Xn F (Xi) > Xn F+ (Xi)	
Risk phrases: 11-20/21-38-48/20-63 > 12-20/21-38-48/20-63	
Safety phrases: 2-9-13-23-25-29/56-33-36/37-43h-46-51-52-60-64 > 2-9-13-16-23-25-29/56-33-36/37-43h-46-51-52-60-64	
Special product phrases: 90-92 > 90-91	

4) Heading for the MSDS:

The heading 15.60.60 "*Classification in accordance with Directive 75/324/EEC*:" with translations in all EC languages has been added in section 15.

5. IMDG Code - Segregation groups / Chapter 3.1.4

With this Update the English designations of the segregation groups according to IMDG Chapter 3.1.4 have been integrated in ChemGes. A segregation group contains dangerous goods, which all have certain identical chemical properties in common (see Chapter 7.2.1): Each of the 18 segregation groups (see overview below) has UN numbers allocated to it. These segregation groups – if applicable – have to be stated in the transport documents.

Please note that not all substances (N.O.S. entries) falling within a segregation group are listed in the IMDG Code by name. Mixtures, solutions and preparations containing substances falling within a segregation group and are shipped under an N.O.S. entry are e.g. considered to fall within the respective segregation group of the substance.

1	Acids
2	Ammonium compounds
3	Bromates
4	Chlorates
5	Chlorites
6	Cyanides
7	Heavy metals and their salts (including their organometallic compounds)
8	Hypochlorites
9	Lead and its compounds
10	Liquid halogenated hydrocarbons
11	Mercury and mercury compounds
12	Nitrites and their mixtures
13	Perchlorates
14	Permanganates
15	Powdered metals
16	Peroxides
17	Azides
18	Alkalis

The following changes were made in ChemGes:

1) Maintenance of raw materials / preparations:

In the screen *Sea and air transport* the field **Segregation groups** was added.

After clicking on the field **Segregation groups** you receive another screen (see next picture), in which you may allocate up to 6 segregation groups.

By means of **Page ↓** it is possible to open an overview of all segregation groups and to select the appropriate group(s) by clicking on the respective line(s). Alternatively, you can also set that *no allocation* to a segregation group shall be done.

2) UN numbers:

In screen 2 of the UN numbers (*Maintenance programs – Transport – UN numbers*) the field **Segregation groups** was added:

Like for the **Maintenance of raw materials / preparations**, it is possible to open an overview of all segregation groups here by means of and to select the appropriate group(s) by clicking. You may allocate up to 3 segregation groups or set, that *no allocation* to a segregation group shall be done.

The allocations of UN numbers to segregation groups for raw materials listed in the IMDG Code were integrated in the ChemGes database and are adopted as proposal in the field **Segregation groups** in the screen *Sea and air transport* and *Screen 2* of the UN numbers.

3) Maintenance of headings:

In MSDS Section 14 the new heading 14.50.65 "*Segregation groups*" was added. Please note that the output of this heading is done in English for all countries.

B. Program Update

1. New structure of MSDS-headings

With this update the structure of the MSDS headings and the composition of the individual sections are changed.

This change has become necessary due to the growing amount of data, which have to be stated in the MSDS. This restructuring improves clarity and adapts the MSDS to future legal requirements (these enhancements mainly concern section 15 *National Regulations*).

The new heading numbering system provides additional number ranges, which eases the adoption of new data and information into the MSDS and increases the clearness of the document.

Number	Text
A 1	Identification of the substance/preparation and of the company/undertaking
B 1.30	Product details
C 1.30.10	Trade name:
D 1.30.10.20	Article number:
E 1.30.10.80	Registration number
F 1.30.70.80	Application of the substance / the preparation
G 1.40.10	Manufacturer/Supplier:
H 1.40.20	Further information obtainable from:
I 1.40.30	Information in case of emergency:
J 2	Composition/Information on ingredients
K 2.30	Chemical characterization:
L 2.30.10	CAS No. Description
M 2.30.20	Identification number(s)
N 2.30.20.10	EINECS Number:
O 2.30.20.20	Index number:
P 2.30.20.30	ELINCS Number:
Q 2.30.30	Additional information:

[Page ↓] Next page [Esc] Exit

The switch to the new numbering system is done automatically during the update. All allocated conditions (phrases, output options etc.) are adopted during this process. In case you have created headings yourself, these headings will of course not be overwritten during the update.

01	Dangerous ingredients	2.40.20	Dangerous components:	03	From	%
02	Non-dangerous ingredients			05	Count	
04	Most important ingredients					
06	Product declaration acc. to EU 648/2004	2.40.30	Regulation (EC) No 648/2004 on dete			
07	Additional substance table 1					
08	Additional substance table 2					
09	TLV table	8.40	Ingredients with limit values that requir			
10	Derived TLVs	8.40.10.50	Additional Occupational Exposure Lim			
11	Product description	1.30.10	Trade name:			
12	Synonyms					
13	Output for raw materials	<input type="checkbox"/>	14	Output for preparations	<input checked="" type="checkbox"/>	
15	Variants					
16	Product codes	1.30.10.20	Article number:			
17	Creation date					
18	Canadian hazard symbols	3.30.50	WHMIS-symbols:			
19	R-phrases of the ingredients	16.20.90.60	Relevant R-phrases			

Field number

OK

Heading	Value	Label
01 US-VOC	9.100.30	VOC content:
02 EU-VOC		
03 EU-VOC in %	9.100.40	VOC (EC)
04 Swiss VOC	9.100.50	VOCV (CH)
05 MAL-Code	15.70.80	MAL-Code:
06 LGK acc. to VC/D		

2. Maintenance of countries

The screen **Maintenance of countries** (*Maintenance programs – Various tables – Countries*) was expanded by the field **Output in the MSDS for: Raw materials / Preparations**:

Country: GB Great Britain
 Language: ENG English

Material Safety Data Sheets
 03 Creation possible?
 04 Adoption of TLV-values from GB Great Britain

Section 2 resp. 3: 05 Create different tables with components?
 Adoption of substances: 06 T+ and T % 07 C, XN and Xi % 08 Other substances %
 Numbers: 09 CAS 10 EC-number (EINECS) 11 Index-number 12 RTECS
 13 Registration number

14 Output of the toxicology comments in the MSDS
 15 Use settings for the USA 16 Use strict EU-regulations in sections 2 (resp. 3) and 16
 17 Output of MSDSs in REACH format
 18 Output of MSDSs in GHS format 19 MSDS including GHS
 Output in the MSDS for: 20 Raw materials 21 Preparations
 22 Deactivated GHS categories
 23 Output of degrees Celsius in Fahrenheit
 24 Printing-format Format not defined
 25 Risk phrases of the ingredients in section 16
 26 Show only ingredients with health or environmental hazards
 27 Output of MSDS-available-phrase (if necessary)
 28 No Archiving of MSDSs

If the item **MSDS including GHS** or, respectively, the item **Output of MSDSs in GHS format** is activated, it is also possible to define for **raw materials** and / or **preparations**, whether the GHS information shall be stated in the MSDS.

Hint:

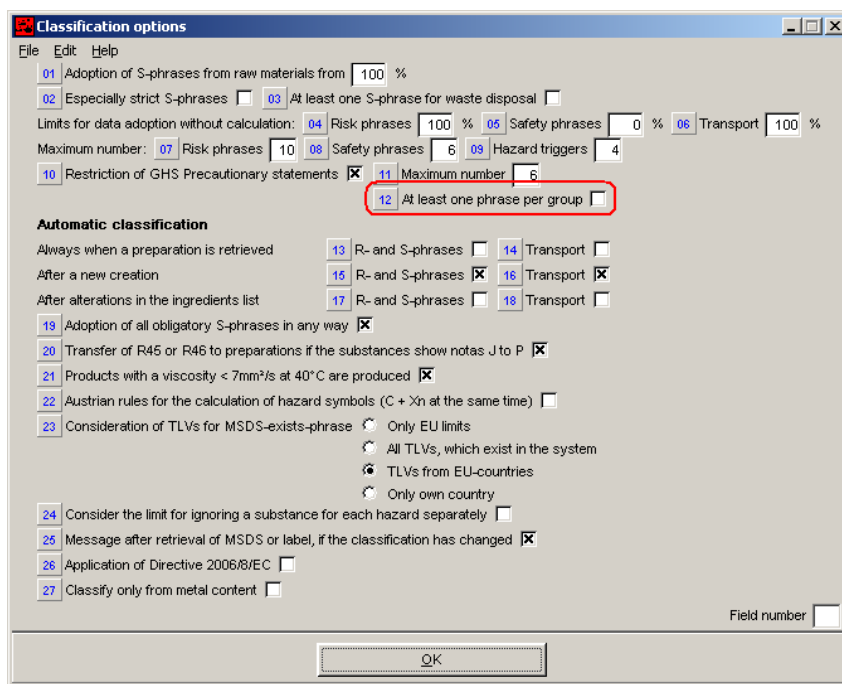
The GHS-classification will become obligatory for *substances* as of December 1, 2010. Therefore, it is obligatory from this date on, to state the GHS information in Safety Data Sheets for substances (raw materials).

The time limit for *preparations* (GHS: "Mixtures") is the 1st of June 2015. Until then, the classification has to be done according to the old **and** the new system in MSDSs (MSDS Chapter 2).

3. Classification options

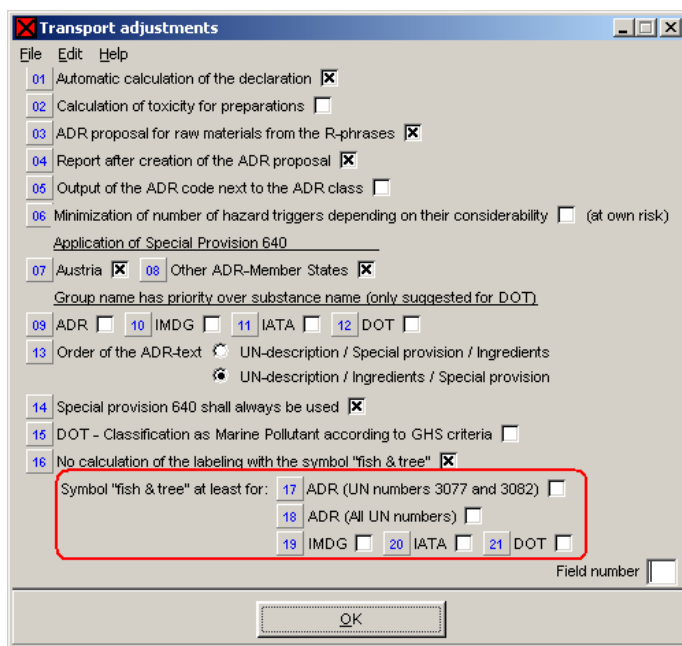
The screen **Classification options** (*Maintenance programs – Program adjustments – Classification options*) was expanded by the new item **At least one phrase per group**:

By activating the item **At least one phrase per group** you can ensure that – if available – at least one Precautionary statement per group is output. The selection of the phrase depends on the priorities (see *Maintenance programs – Phrases – Priority of Precautionary statements*) that have been set. This means that the first available phrase with the lowest priority level is stated.



4. Transport adjustments

The following changes were implemented in the screen **Transport adjustments** (*Maintenance Programs – Transport – Adjustments*):



By means of the item **Symbol "fish & tree" at least for:** you can define separately for each transport regulation, whether the symbol "fish and tree" shall be output.

For *ADR* you can additionally define, whether the output shall be done either only for UN numbers 3077 and 3082, for all UN numbers, or for none.

The item **Symbol "fish & tree" at least for:** is *inactive* (light grey) in the default setting and can only be selected, if the item **No calculation of the labeling with the symbol "fish & tree"** is activated.

5. Individual file creations

The screen **Various other flags** (*Data output – Individual file creations - Various other flags*) was expanded by the following new item:

The screenshot shows the 'Various other flags' dialog box. The 'Active substance' checkbox (03) is highlighted with a red rectangle. Other options include:

- 01 Article groups
- 02 Number of substance groups: 0, 1, 2 (radio buttons)
- 04 Output of description: No (selected), In own field, Directly beside, Only description without abbreviation (radio buttons)
- 05 Flags: a table with 10 rows and 2 columns.
- 06 Memo
- Field number:
- [Esc] Exit button

If you have selected "1" or, respectively, "2" for the field **Number of substance groups**, you can additionally select the percentage for the **Active substance** – if entered in the *Maintenance of substances* – for the file output.

6. M-factor

By means of in the screen **GHS classifications** (*Maintenance of raw materials – field 10 GHS classifications*) you can enter an **M-factor**. For substances listed in CLP this value is transferred automatically.

The screenshot shows the 'GHS classifications' dialog box. The 'M-factor (only potencies of 10)' input field is highlighted with a red rectangle. The dialog contains several sections:

- Signal words: Danger, Warning
- Hazard symbols: GHS07, GHS09, GHS11, GHS12, GHS13, GHS14, GHS15, GHS16, GHS17, GHS18, GHS19, GHS20, GHS21, GHS22, GHS23, GHS24, GHS25, GHS26, GHS27, GHS28, GHS29, GHS30, GHS31, GHS32, GHS33, GHS34, GHS35, GHS36, GHS37, GHS38, GHS39, GHS40, GHS41, GHS42, GHS43, GHS44, GHS45, GHS46, GHS47, GHS48, GHS49, GHS50, GHS51, GHS52, GHS53, GHS54, GHS55, GHS56, GHS57, GHS58, GHS59, GHS60, GHS61, GHS62, GHS63, GHS64, GHS65, GHS66, GHS67, GHS68, GHS69, GHS70, GHS71, GHS72, GHS73, GHS74, GHS75, GHS76, GHS77, GHS78, GHS79, GHS80, GHS81, GHS82, GHS83, GHS84, GHS85, GHS86, GHS87, GHS88, GHS89, GHS90, GHS91, GHS92, GHS93, GHS94, GHS95, GHS96, GHS97, GHS98, GHS99, GHS100
- Labelling: 01, 02 (fields with GHS codes)
- Hazard statements: 03, 04 (fields with H codes)
- Precautionary statements: 05, 06 (fields with P codes)
- Response: 07, 08 (fields with R codes)
- Storage: 09, 10 (fields with S codes)
- Disposal: 11, 12 (fields with E codes)
- M-factor (only potencies of 10):
- Field number:
- [Esc] Exit, [F9] Texts, [Ctrl M] M-factor, [Ctrl P] Majnt. Priority of Precautionary statements buttons

7. Labels

a) Position of symbols

The following changes for the **General table of GHS symbols** in the screen **Position of symbols** (*Maintenance programs – Labels – Label formats – Position of symbols*) have been done:

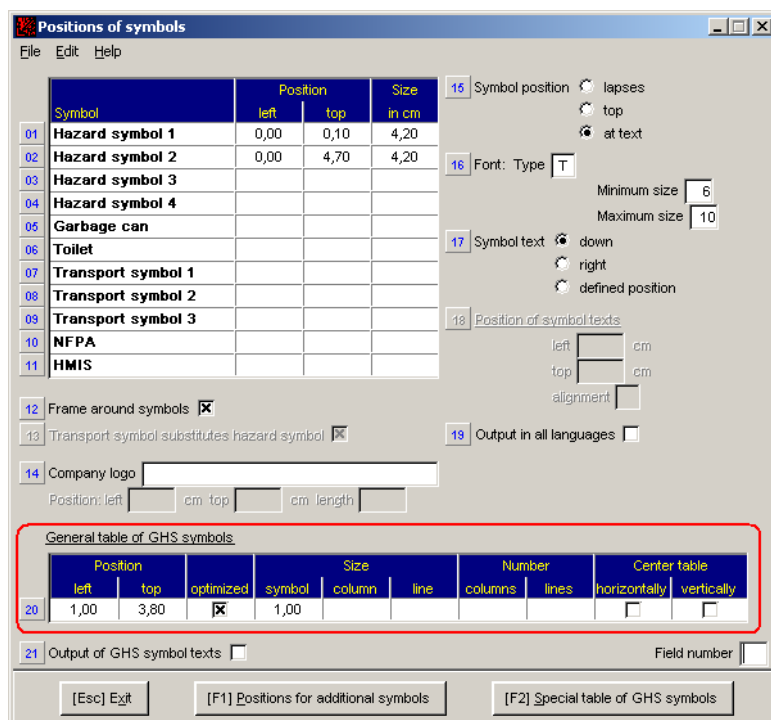
Symbol	Position		Size
	left	top	in cm
01 Hazard symbol 1	0,00	0,00	2,80
02 Hazard symbol 2	0,00	3,10	2,80
03 Hazard symbol 3			
04 Hazard symbol 4			
06 Garbage can			
06 Toilet			
07 Transport symbol 1	10,00	5,00	14,00
08 Transport symbol 2			
09 Transport symbol 3			
10 NFPA			
11 HMIS			

General table of GHS symbols									
Position		optimized	Size			Number		Center symbols	
left	top		symbol	column	line	columns	lines	horizontally	vertically
1,00	3,80	<input type="checkbox"/>	1,00	3,00	1,00	5	5	<input checked="" type="checkbox"/>	<input type="checkbox"/>

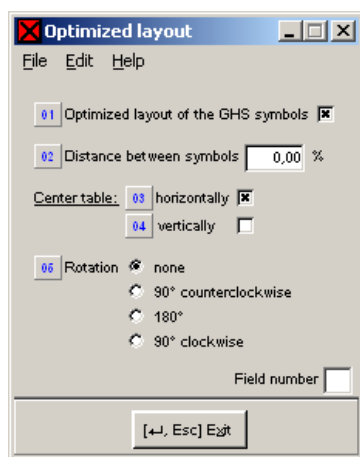
Optimized layout of the GHS symbols:



If the **optimized layout** is activated, the **GHS symbols** are output with the optimized size and layout based on the actual number of symbols. In this case the previous settings for the column- and line size of the symbol table do no longer apply:



Additional settings for the optimized layout can be found in the screen **Optimized layout**, which is displayed when the option **Optimized** is selected.

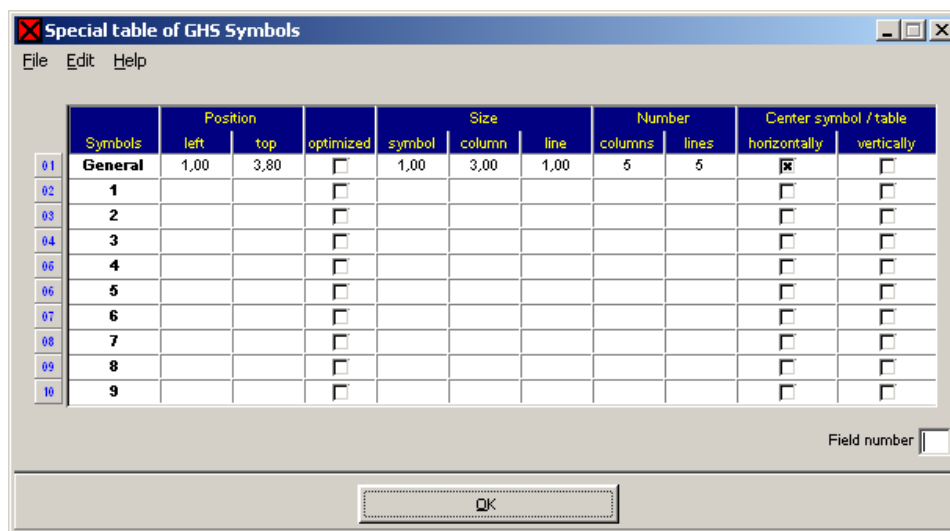


The item **Distance between symbols** serves to adjust the spacing between the individual symbols. 0% means, that the symbols are positioned margin to margin. 100% distance equals the size of the symbol itself.

If the item **Center table** (*horizontally / vertically*) is activated, the entered position information (left / top) is used for the respective center. If the table is centered both horizontally and vertically, the position information (left / top) is used as the exact center of the table.

By means of the item **Rotation** it is possible to rotate the specific layout that is used for the optimized output. However, the GHS symbols in the table are not rotated.

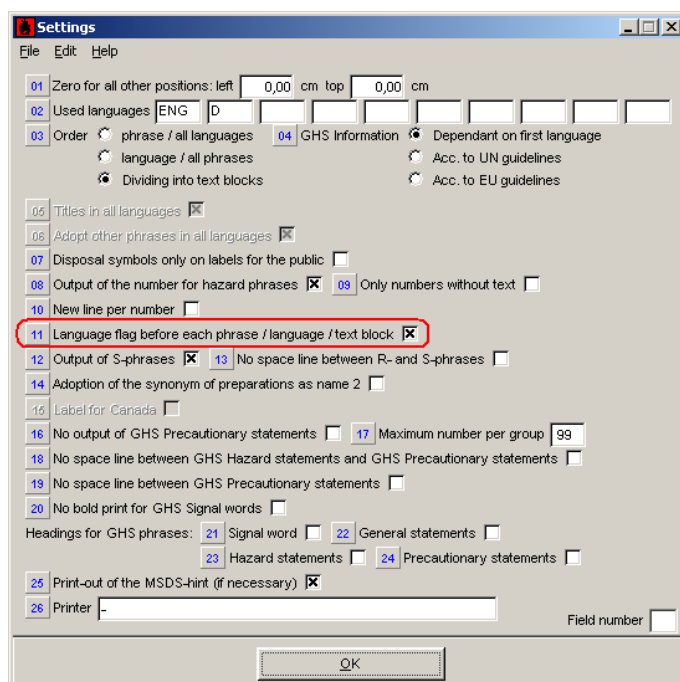
By means of **[F2]** (see first picture) one can switch to the **Special table of GHS symbols**.



By means of the special table it is possible to define output settings of GHS symbols for any number of symbols on the label. This means that it is possible to use differing settings for the size and position of symbols that depend on the number of symbols (e.g. for the output of 3 symbols or of 8 symbols). With this table it is therefore possible to **optimize** the **output** for a **differing number of GHS symbols** within the same label format.


b) Settings

The former item **Language flag before each phrase** in the screen **Settings** (*Maintenance programs – Labels – Label formats – Settings*) has been expanded:




If you activate the item **Language flag before each phrase / language / text block**, the language flag is stated before each phrase / language / text block (see pictures below).

toluene



Xn Harmful



F Highly flammable


(ENG) R-phrases:
R 11 Highly flammable. **R 38** Irritating to skin. **R 48/20** Harmful: danger of serious damage to health by prolonged exposure through inhalation. **R 63** Possible risk of harm to the unborn child. **R 65** Harmful: may cause lung damage if swallowed. **R 67** Vapours may cause drowsiness and dizziness.

S-phrases:
S 2 Keep out of the reach of children. **S 36/37** Wear suitable protective clothing and gloves. **S 62** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

(D) R-Sätze:
R 11 Leichtentzündlich. **R 38** Reizt die Haut. **R 48/20** Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen. **R 63** Kann das Kind im Mutterleib möglicherweise schädigen. **R 65** Gesundheitsschädlich: kann beim Verschlucken Lungenschäden verursachen. **R 67** Dämpfe können Schläfrigkeit und Benommenheit verursachen.

S-Sätze:
S 2 Darf nicht in die Hände von Kindern gelangen. **S 36/37** Bei der Arbeit geeignete Schutzhandschuhe und Schutzkleidung tragen. **S 62** Bei Verschlucken kein Erbrechen herbeiführen. Sofort ärztlichen Rat einholen und Verpackung oder dieses Etikett vorzeigen.


Company name
 Street
 City, State, ZIP Code
 Tel.: / Fax: / e-mail:




VP12059632

Language flag before each phrase / language / text block *activated*

toluene



Xn Harmful



F Highly flammable


R-phrases:
R 11 Highly flammable. **R 38** Irritating to skin. **R 48/20** Harmful: danger of serious damage to health by prolonged exposure through inhalation. **R 63** Possible risk of harm to the unborn child. **R 65** Harmful: may cause lung damage if swallowed. **R 67** Vapours may cause drowsiness and dizziness.

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S 2 Keep out of the reach of children. **S 36/37** Wear suitable protective clothing and gloves. **S 62** If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

R-Sätze:
R 11 Leichtentzündlich. **R 38** Reizt die Haut. **R 48/20** Gesundheitsschädlich: Gefahr ernster Gesundheitsschäden bei längerer Exposition durch Einatmen. **R 63** Kann das Kind im Mutterleib möglicherweise schädigen. **R 65** Gesundheitsschädlich: kann beim Verschlucken Lungenschäden verursachen. **R 67** Dämpfe können Schläfrigkeit und Benommenheit verursachen.

S-Sätze:
S 2 Darf nicht in die Hände von Kindern gelangen. **S 36/37** Bei der Arbeit geeignete Schutzhandschuhe und Schutzkleidung tragen. **S 62** Bei Verschlucken kein Erbrechen herbeiführen. Sofort ärztlichen Rat einholen und Verpackung oder dieses Etikett vorzeigen.

Company name
 Street
 City, State, ZIP Code
 Tel.: / Fax: / e-mail:



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Language flag before each phrase / language / text block *deactivated*

8. Maintenance of raw materials – Toxicological values

The screen **Input of toxicological values** (*Maintenance of raw materials – Toxicological values*) was expanded by the new field **Test method**. This field serves to enter the respective test method.

Input of toxic value

File Edit Help

01 Type of test Way of absorption oral
 dermal
 inhalative
 skin irritation
 eye irritation
 sensitization
 not defined

02 Species

03 Value mg/kg

04 Test method

05 Condition none
 static
 dynamic

06 Comment

07 This value is a validated value for the aquatic toxicity Field number

[←], [Esc] Exit [Ctrl F6] Delete