

Raw Materials

More detailed Information can be found in the Manual to ChemGes.

Introduction:

- ChemGes has a Database of thousands of Raw Materials (RMs)
- These are taken from official lists and major data compilations (i.e. legislative lists and various other data sources=
- The <u>insertion of new Raw Materials</u> takes only a matter of <u>minutes</u> they are then ready for use in formulations, permanently.
- After a preparation is generated, it can be used as an <u>Intermediate</u> <u>ingredient</u> within other preparations (see Power Point Presentation on <u>Creating a Preparation</u>).

Please direct additional questions to our hotline <u>By Telephone</u> at +1 (902) 832-3425 +1-877-667-7667 +43 2628 619 00 <u>By E-mail to info@dr-software.com</u>

Steps for Creating a new Raw Material:

1. Set up the Database Entry

• Enter either a CAS number or ask ChemGes to assign an Internal number F5 *Next* substance number

ChemGes				⊡ – ∎	×			
Edit Additional functions Help								
				Version 52.0.15 (01/28/2021	, 08:00)			
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Description Product and a 1000	10.082	Example			_			
Product code + [F1]	64-17-5/1	ethanol						
Index number + [F2]	8/-25-2	ethyl anthranila	< ChemGes				a	- 0
EC number + [F3]	7681-49-4	sodium fluoride	File Edit Additional function	ons Help				
UN number + [F4]	50-00-0	formaldehyde	4	and Table			Version	52.0.15 (01/28/202
Registration number + [Ctrl R]	508233-74-7	1-[2-(2,4-dimet					Version.	(0 1) and a Ch
UFI Code + [Ctrl U]	10.087	New one			Administra	tion of Chemicals		
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	32612-48-9	Sodium lauryl e	Index	number + [F2]	87-25	-2 ethyl anthranilate		
	7732-18-5	water, distilled,	EC nu	umber + [F3]	7681-4	9-4 sodium fluoride		80
	7440-31-5	tin	UN n	umber + [F4]	50-00	-0 formaldehyde		8000
	10.080	test	Regis	stration number + [Ctrl R]	508233-	74-7 1-[2-(2,4-dimethylph	enyl)sulfanylphenyl]piperazine	1
	10.079	eth	UFIC	ode + [Ctrl U]	10.08	7 New one		80014
	10361-37-2	barium chloride	[Page 1] Oven	view of substances	1317-9	5-9 Silica-Crystalline Trip	oli	88
	(495)	bariumsalts, wit	[ES] Nevt	substance number	10.08	6 Example		
11 AL			(E6) Next	free preparation number (at t	10.08	5 test		
emwin\gefdat			[F0] Next	free preparation number (acc	10.08	4 Formulation test		
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					22612	9.0 Codium Jauni other	ulfate	0 (*)
					32012-4	8-5 water distilled cond	unate uctivity or of similar purity	
					7/32-1	1-5 tin	activity of of similar punity	
					10.08	0 test		0000
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					10361-3	7-2 barium chloride		A A A
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Data Entry

2. Fill in any available information:

- The more database fields that are filled in, the more information ChemGes has for use in calculations for the classification of preparations in which the raw material is used.
- Information must come from trusted sources, such as the supplier/manufacturer or your own data, etc.
- By clicking into (or choosing via the field *Field Number*), the various database fields, these can be opened for entry of classification information or substance data.



	(51.0.)									
		-	EU list	EU list	INCI	Chem.	and the second sec			
idard SDS	Internal	Transport	Main subst.	Addtl. subst.	American English	desc.	Description			
	Г	Г	Г	Г	Г	Г	formaldehyde %			
	Г		Г	Г	Г	Г	formaldehyde%			
X Г	Г	Г	Г	Г	F	Г	Formaldehyde			
	Г	Г	Г	F	F	Г	formalin			

Translations of definitions can be entered by pressing F1 or clicking on the symbol, next to the description.

<u>File Edit H</u> elp (51.0	.2)						
Language:							
Arabic	فورمالدهابد						
Bulgarian	формалдехид%√формалдехид%						
Chinese	甲醛┙甲醛溶液┙福尔马林溶液						
Chinese (traditional)	甲醛┙甲醛溶液┙福馬林溶液┙甲 醛溶 液┙福 爾 馬林溶 液						
Croat	formaldehid% formaldehid%						
Czech	formaldehyd% methanal% Formaldehyd						
Danish	formaldehyd%						
Dutch	methanal% 64 formaldehyde Jormaldehyde %						
English	formaldehyde%ا Formaldehyde الم						
English - Malaysia	formaldehyde						
Estonian	Formaldehüüd % الم Formaldehüüd الم Formaldehüüd%						
Finnish	formaldehydi% له Formaldehydi formaldehydi ه Formaldehydi%						
French	aldéhyde formique % Formaldéhyde formaldéhyde à%						

Various markings can be assigned to your substance definitions and synonyms.

A. Database Data

The individual pages of the database:

- can be accessed either via the button combination *Alt 1* to *Alt 9* or the **buttons** shown below.
- are for the entry of substance specific information, beyond the classification.

ChemGes uses this data, in addition to the classification data, to calculate the classification and physical data of any preparation in which this raw material is contained. This information also aids in the output of information in an SDS.

	🔶 Physical data 🛛 📼 - 🗆 🗙
	Eile Edit Database Help (\$2.0.15)
	Physical data Additional physical-/chemical values OELVs Toxicological values Substance listings Transport Country specific information
Ctrl TTox valuesCtrl LSubstance listingsCtrl MOELVsAlt+7Country specific values	* State iquid * Color 1 Color 5 Structural formula H C H O * Form 28 Fluid * Summation formula C H 2 O * Odor 5 Pungent * Summation formula C H 2 O * Odor 5 Pungent * Acid/base * Lead content % * Boiling point -21 * C * Walue * Acid/base * Conton content % * Boiling point -22 * C * J 40°C * Acid/base * Content of soluble chromium (VI) % * Ignition temperature -300 * C Explosion limits * 7.73 * Ministree of metal (for classification) % * Ignition temperature * 300 * Vapour pressure * 1,7 hPa 20 * C * Contains Cadmium * * Backson pressure bar * Vapour pressure * 1,7 hPa 20 * C * C ontains Cadmium * <td< td=""></td<>
The <i>Physical data</i> page Alt 1 or F3 contains many fields for the	¹⁴ VOC solvent IX ¹⁴ Exempt solvent (US) ¹⁷ ¹⁴ Austrian solvent regulation ¹⁷ ¹⁵ Swiss VOCV IX ¹⁶ ¹⁷ ¹⁶ ¹⁶ ¹⁷ ¹⁶ ¹⁶ ¹⁶ ¹⁶ ¹⁶ ¹⁶ ¹⁶ ¹⁶
entry of the physical data of your raw	
material.	

OELVs can be entered in the screen **OELV-values** Alt 3 or Ctrl M:

Country Austria Austria Belgium dutch Belgium dutch Uugaria Canada french Chile Chile Chile Chila Croatia Czechia Demmark Estonia Esto	Type S WES MAK VL GW GS EL EV EV LP	mg 2,5 0,74 0,38 0,38 2,0	values ml 2 0,6 0,3	Long-term mg 1,2 0,37	values C ml 1	Ceiling limi mg	it values s/	H Biological limit values	Group	Comment	Locked for					
Australia Austria Belgium Belgium dutch Bulgaria Canada french Chila Croatia Croatia Croatia Croatia Demnark Estonia	WES MAK VL GW GS EL EV EV LP	2,5 0,74 0,38 0,38 2,0	2 0,6 0,3	1,2	1	ing			value	comment	undate					
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Canada french Chile Chora Croatia Croatia Czechia Denmark Estonia EU	EV LP		1,0				1,5		F		Г					
Chile China Croatia Czechia Denmark Estonia EU	LP		1,0				1,5		F		г					
China Croatia Czechia Denmark Estonia	0.51					0,37	0,3		F	A.1	Г					
Croatia Czechia Denmark Estonia	OEL					0,5			Г	NR, G1	Г					
Czechia Denmark Estonia	GVI	0,74	0,6	0,37	0,3				F	alergen koža, Karc 1B	Г					
Denmark Estonia EU E	NPK	1		0,5					F	I, K, P	Г					
Estonia EU E	GV					0,4	0,3		F	UK	Г					
EU	TKOP	1,2*	1*	0,6	0,5				F	C, S;*arvutatud 5-minutisele kokkupuuteajale	Г					
	OELV	0,74	0,6 0	,37 (0,62)* 0	,3 (0,5)*				F	Skin sens;*health/funeral/embalming till 11/7/24	Г					
Finland	HTP	0,74*	0,6*	0,37*	0,3*			VIIIIIIIIII	A F	*situvat raja-arvot: Ihoherkistyminen	F					
France	VLEP	0,74	0,6	0,37 0,5* 0),3 0,62*				F	C1B, M2,*;jusqu'au 11.07.24 l'embaumement	F					
Germany	AGW			0,37	0,3				F	2(I);AGS, Sh, Y, X	F					
S. C. LANS	MAK	2.6	-	0,37 1,2*	0,3		5	h (////////////////////////////////////	F	*Momentanwert	-					
Great Britain	WEL	2,5	2	2,5	2					Carc	F					
Greece	IWA	2,5	2	2,5	2				-							
Hungary	OELV	0,6	0.00	0,6	0.00					k(1B), b, m, sz	🚽 💎 Ma	ntenance of limit v	/alues			
Iceland	MEN	0,74	0,60	0,37	0,30					PL K	51 - 54	 Usia (53.0.15) 				
Indonesia	NAB	0.730	(0,3)	0.37.0.634	03054					(A2, DSEN, RSEN)	<u>File E</u> d	<u>H</u> eip (<u>5</u> 2.0.15)				
Ireiand	OEL	0,738	0,6	0,37 0,02*	0,3 0,5*		0.2		1-	carcing, sens, nearthcare, tuneral, embailm: 11.07.24	1 Cour	to NZ New Zeelen	ud.			
Israel	DAVA				0,2	0.27	0,3		-	ann 43	Cou	uy jivz jivew zealand	iu			
lang	OFI			0.12	0.1	0,57	0,5			Sen, AZ	- ² Type	of limit value WES		³ Biolog	ical limit value 🗔	
Korea	OFIN			0,12	0.1	0,2.4	0,2		F	방안성1&생신세포 변이왕성2	4 Grou	p _				
Latvia	AFR			0.5	0,5				F							
Lithuania	PRD			0,5	0.5	12	1		F	0.LK						
Malaysia	PEL			0,0	0,5	0.37	0.3		1 F							
Mexico	VLE					0,01	0.3		2 F	A2. SEN			m	ig/m³	ml/m ³	
Netherland	WGW	0.5	0.4	0.15	0.1				F		5 Sho	rt-term values		2.	0.6	
New Zealand	WES		0,6		0,3				F	confirmed carcinogen, dsen, interim WES	6 100	a-term values			0.3	
Norway	AG			0.6	0.5	1,2	1		F	AK	1 0 1	y term values			0.5	
Poland	NDS	0,74		0,37					2 F	skóra	Ceil	ng limit values				
Portugal	VLE						0,3		2 F	(S); A2; Irritação ocular e do TRS						
Romania	VLM	3	2	1,2	1				2 -	C2	* S/H					
Russia	PDK			0,5					F	n; O, A, +;	Not	ansfer of the standard un	nit into the S	SDS E		
Singapore	PEL	0,37	0,3						A F							
	WSH	0,37	0,3						S F							
Slovakia	NPEL	0,74	0,6	0,37	0,3					S	Valu	e Mer	edium	Sampling time	Parameter	
Slovenia	MV			0,62	0,5				F	KΥ	10					
South Africa	OEL	2,5	2	1,2	1				N F		11					
Spain	LEP	0,74	0,6	0,37	0,3				S F	C1B, Sen, s	12					
Sweden	OEL	0,74	0,6	0,37	0,3				F	C, H, S						
Switzerland - german	MAK	0,74	0,6	0,37	0,3				F	S C1b SSc;MAK eingehalten: Kein erh. Krebsrisiko	13					
Taiwan	PEL			1,2	1											
Vietnam	PEL	1,0		0,5					2	IARC 1						
c 54 Inut only for solid prepara	tions -										¹⁴ Com	nent confirmed carcinog	gen, dsen, in	terim WES		
por only for some prepara	- Common	iteration F	_	-							¹⁵ Locke	d for updates				

Additional **OELVs** Insert can be entered for both new substance and default substances. For all substances that are by **default part of the ChemGes database**, group and individual OELVs are automatically updated with each major Update, unless the information has been locked to avoid such a change. OELVs are locked in the maintenance screen. In the screen, **Country specific information** Alt 7), you can enter the country-specific information for your raw material.

This data is output on the SDS where applicable.



Registration numbers			_		×						
<u>File Edit H</u> elp (<u>5</u> 1.0.2)		N									
¹ Country EU EU		N3									
² Company 1 Chemix GmbHJChemixstraße 17JA-5020 Salzburg Tel.: 0043/662/21 22 23											
³ Registration number 22-23	45-XXX-XXXX										
	[Esc] E <u>x</u> it	[Alt Delete] Delete									

Registration numbers:

In this screen you can enter the Registration numbers for the EU, Turkey and Korea. These can be allocated to specific companies. In order to output these numbers on the SDS, it is necessary to activate the field **Registration number**, in *Maintenance* programs – Various tables – Countries.

The toxicole	nical dat	a of the	row motori	al can	haar	ntor	red in the Toricological values Alt A or
	igical ual		Taw Illatell	ai call	De el	nei	eu in me toxicological values [ATL] [4] 01
Ctrl T .							
🚸 Toxicological data				_		×	
<u>File Edit H</u> elp (<u>5</u> 2.0.15)							
Physical data Additional physi	cal-/chemical values	OELVs Toxicolo	gical values Substance lis	tings Transpo	rt		
Country specific information							
50-00-0 formaldehyde							
Test type	Type of reception	Animal	Value Unit	Test method	Comment	In SDS	
Abbr. Description	Oral	rat	2 mg/kg			group 1	
2 200 LD50	Dermal	rat	2 mg/kg 2 mg/kg			1	- 🗆 🖉 lanut af tavir uslua — 🗆 🗸 🗸
3 300 LC50/4 h	Inhalative	rat	ma/l		Г	1	File Edit Help (51.0.2)
Available test types	1	1		1	1	1	Type of test [JD50 (100) Exposure route Oral
100 LD50	Oral		mg/kg			1	
a 200 LD50	Dermal		mg/kg			1	* Species Irat
y 300 LC50/4 h	Inhalative		mg/l			1	³ Value 5000 mg/kg ⁴ Additional information for the unit
400 EC50	-		mg/kg			2	⁵ Test method Condition Condition
							C dynamic
Count 8							7 Comment
The toxicity of this substanc	e is unknown. 🔲 Ti	he hazard to the	aquatic environment of t	his substance	is not knov	/n. 🗆	
The classification is carried	out with these value	es: Oral: 2 mg/kg	g, Dermal: 2 mg/kg, Inh	alative: 3 mg,	/I - (ATE va	lues)	
Blue colored test types are us	sed to calculate ATE	S					
Cast and an Alabamistica	Johannia 🗁 👌			Chaus ATC		luna T	
Sort order: Abbreviation - a	aphanumeric X Al	UDIEVIALION - NUN	for the constinue of the second secon	SHOW ATE		iues 🛛	
	or target organs	(FTU) <u>M</u> aintenance	[Ctri i] Creation of new	тезт туре	[1-3,5-8] Sel	ection	Adomonal comment j
[Curi+A-Z, 1-9,0] Search							¹ ¹ This value is a validated value for the aquatic toxicity
							The tox value will only be used for the following types of preparations ¹⁴ Gas
							¹⁵ Vapor
							16 Dust or mist
Screen <i>Toxi</i>	cological	l data:					[Esc] Save and exit [Alt Delete] Delete [Alt F3] Change comment language

In order to enter a new value, select the desired test type with a left click. Via **Creation of new test type**, you can create additional test types.

If your substance exhibits harmful effects to certain target organs, these organs can be allocated by pressing **Allocation of target organs**. Here you can also create new target organs.

By pressing F10, you can access the maintenance settings for toxicological values.

Screen **Input of toxic value** (accessed by selecting <u>a test type or an entered value):</u>

Along with the basic toxicological information, you can enter here a **Comment**, translations of comments (**Alteration Language**) and an **Additional comment**. The screen *Substance listings* (Alt 5 or Ctrl L), contains data regarding the listing status and classification of the substance in **various country specific substance listings**.

With the software updates, the substance listing information is <u>automatically</u> updated for all substances that are contained in the database by default.

hysical data Additional ph	ysical-/chemical values	OELVs Toxicological values Substance listings Transport Country specific information		
0-00-0 formaldehyde		• • • • • • • • • • • • • • • • • • • •		
Country	Abbr.	Description of the listing	Content	in the SDS from
Japan	PRTR 1	PRTR Class 1 designated substances	411	≥0,1 % (substance specific)
	PRTR 2	PRTR Class 2 designated substances		≥0,1 % (substance specific)
	SCS	Specified Chemical Substances		>0 %
	TTR	Toxicity Tests Results	Г	>0 %
	WPCA-DS	Water Pollution Control Act - Designated Substances	3-3-1	>0%
tal Varia	WPCA-HS	Water Pollution Control Act - Harmful Substances	177	>0 %
. Norea	CCA-AS	Korean Chemical Control Act - Autoorized substances	IX IV	>0 %
	CCA-PS	Korean Chemical Control Act - Prohibited Substances	-	>0%
	CCA-RS	Korean Chemical Control Act - Restricted Substances	1×	>0%
	CCA-TS	Korean Chemical Control Act - Toxic substances	1X	>0%
	KCMR	Korean CMR Substances	Г	>0%
	KDSL	Korean Dangerous Substance List	IV/5, 4000 L	
	KES	Korean Exempt Substances	Г	>0 %
	KECI	Korean Existing Chemical Inventory	KE-17074	>0 %
	ISHA-HASME	Korean ISHA - Hazardous Agents Subject to Special Medical Examination	1A98	>0 %
	ISHA-HAWEM	Korean ISHA - Hazardous Agents Subject to Work Environment Monitoring	1A105	>0 %
	ISHA-HSSC	Korean ISHA - Hazardous Substances Subject to Control	1x	>0 %
	ISHA-HSSSC	Korean ISHA - Hazardous Substances Subject to "Special Control"	109 (118)	≥0,1 % (substance specific) (not in SD
	ISHA-SPM	Korean ISHA - Substances Prohibited for Manufacturing, etc.	Г	>0 %
	ISHA-SRP	Korean ISHA - Substances Requiring Permission	F	>0 %
	KPCS_1	Korean Priority Control Substances - Table 1	(X	≥0,1 %
	KPCS_2	Korean Priority Control Substances - Table 2	F	≥0,1 %
Malaysia	EHSKL	EHS Reference List	(X	>0 %
Mexico	0776	Inventario Nacional de Sustancias Químicas	×	>0 %
Netherland	775	Lijst van Polentieel Zeel Zorgwerkende stoffen	1	>0 %
	NIET D	NIET - Porthoeding		20%
	NIETO	NIET - Ontwikkeling		>0%
	NIFT V	NIET - Vruchthaarheid		>0%
	SZW KS	SZW-lijst van kankerverwekkende stoffen	1X	>0 %
	SZW MS	SZW-lijst van mutagene stoffen	Γ.	>0 %
New Zealand	HSNO	HSNO Approval numbers		>0 %
	NZIoC	New Zealand Inventory of Chemicals	ĨX	>0 %
Philippines	PICCS	Philippines Inventory of Chemicals and Chemical Substances	x	>0 %
Singapore	SHPA	Singapore Health Products Act - First Schedule	F	>0 %
	SPA	Singapore Poisons Act - Schedule 1		>0 %
	SPA2_II	Singapore Poisons Act - Schedule 2, Group II	F	>0 %
Taiwan	PMC_A1	PMC Taiwan Priority Management Chemicals - Appendix I	Г	≥1 %
	PMC_I	PMC Taiwan Priority Management Chemicals - Article 2, paragraph 2, item I	×	≥1 %
	PMC_II	PMC Taiwan Priority Management Chemicals - Article 2, paragraph 2, item II		≥1%
	TPEC	Priority Existing Chemical Substances	F	>0%
	TCSCA-CCS	TCSCA Control concentration standard (w/w%)	15	>0 %
	TCSCAECSEP	TCSCA Regulations of New and Existing Chamical Substances Registration, Appendix 6	50	>0%
	TCSCA-PCN	TCSCA Regulations of New and Existing Chemical Substances Registration, Appendix o	66/01	>0%
	TCSCA-TC	TCSCA Toyicity classification	2.3	>0%
	TCSL	TCSLTaiwan Chemical Substance Inventory	C, 3	>0%
Thailand	FCDT	Existing Chemical Directory of Thailand (DIW)	18	>0%
	HSL-DOA	Thailand Hazardous Substance List - Department of Apriculture	1999 X	>0 %
	HSL-DEB	Thailand Hazardous Substance List - Department of Energy Business		>0 %
	HSL-DOF	Thailand Hazardous Substance List - Department of Fishery	ชนิดดี 2	>0 %
	HSL-FDA	Thailand Hazardous Substance List - Department of Food and Drug Administration	etten 4	>0 %
	HSL-DIW	Thailand Hazardous Substance List - Department of Industrial Work	silon 2	>0 %
	HSL-DLD	Thailand Hazardous Substance List - Department of Livestock Development	อนิลล์ 3	>0 %
Vietnam	PL4-CPRP	Chemicals requiring prevention	5.000	>0 %
	PL1-CSCP	Chemicals subject to conditional production	Г	>0 %
	PL5-CSCD	Chemicals subject to declaration	(X	>0 %
	PL2-RCP	Restricted chemicals in production	(x	>0 %

By pressing Insert New, you can create a new substance listing.

Additional information and settings, for a substance listing, can be accessed via the Maintenance.

Output of substance listings on the SDS:

In order to output a substance listing on the SDS automatically, you can allocate a heading in the option **Output in the safety data sheet** of the screen **Maintenance of substance listings**. There you can also define the limits for adoption and the type of output.

Maintenance of substance listings		æ	-	
le <u>E</u> dit <u>H</u> elp (54.0.5)				
Abbreviation PRTR SC1 Name of the substance listing PRTR Specified Class I Designated Chemical S From country Japan Type of values Text C Exists - Yes/No 4 Entries via EC/index number allowed X				
Output in the SDS				
5 Heading 15.33.44 PRTR Specified Class I Designated Chemical Substa	inces	•Active	X	
7 Countries For: Japan				
Output only if the substance is also shown in section 3 with the dangerous Output of the CAS number Output of the CAS number C Exact value C Limits	substances T			
¹⁶ Output of the special phrase that none of the substances is listed	Standard phrase: None of the ingredients is I	isted.		1
	Standard phrase: Substance is not listed.			
17 Output of the special phrase that all substances are listed	Standard phrase: All substances have the value	ie S.		
18 When showing individual substances, only show the missing substance	es 🗖			
Maintenance of standard phrases Specific phrases for this h	eading only			
19 Phrase that is also displayed elsewhere if no substance is shown 20 Cou	Intries			
21 Used for California Cleaning Right to Know Act 🦵				
Excel file with preparations and all raw materials in this substance listing				
Excel file with raw materials and the occurrence in all preparations		Import r	new valu	1
[Esc] 🔂 Exit	[Alt Delete] 拉 Delete			

Note:

The **Substance Listings** screen is also available in the *Maintenance of preparations*. Here you can see an overview of ingredients of the preparation contained in various substance listings.

B. The GHS Classification and its many country variations:

Click into the **GHS classification** of the raw material. In the screen that opens, you can see the various classifications of the raw material, or enter them, country- or area- specifically.

GHS-Classifications Note: File Edit GHS classifications Help (52.0.15) Hazards General statements and prevention Reaction Storage and disposal As it would be overwhelming to have a flag for every country in the Countries Signal words Symbols Classification ()2.6/4 H227 | 3.1.0/3 H301 | 3.1.D/3 H311 | 3.1.l/3 H331 | 3.2/1B H314 | 3.4.S/1 H317 | 3.5/2 H341 **8**A GHS screens, we have reduced it to 3.6/1B H350 **63** 2.6/4 H227 | 3.1.0/3 H301 | 3.1.D/3 H311 | 3.1.l/3 H331 | 3.2/1B H314 | 3.4.S/1 H317 | 3.5/2 H341 SELF the following: 3.6/1B H350 3.1.O/3* H301 | 3.1.D/3* H311 | 3.1.J/3* H331 | 3.2/1B H314 | 3.4.R/1A H334 | 3.4.S/1 H317 **8**A 3.5/2 H341 | 3.6/1B H350 *Countries/areas that have very* **ØA** 2.6/4 H227 | 3.1.0/3* H301 | 3.1.D/3* H311 | 3.1.I/3* H331 | 3.2/1B H314 | 3.3/1 H318 3.4.R/1A H334 | 3.4.S/1 H317 | 3.5/2 H341 | 3.6/1A H350 | 3.8/3 H335 | 4.1.A/2 H401 distinctive versions of the GHS: **8**A 2.6/4 H227 | 3.1.0/3 H301 | 3.1.D/3 H311 | 3.1.l/3 H331 | 3.2/1B H314 | 3.3/1 H318 | 3.4.S/1 H317 3.5/2 H341 | 3.6/1B H350 | 3.8/3 H335 USA, Canada, EU **8**A 2.6/4 H227 | 3.1.0/3 H301 | 3.1.D/3 H311 | 3.1.I/3 H331 | 3.2/1 H314 | 3.4.S/1 H317 | 3.5/2 H341 3.6/1B H350 **Ø** 🔥 2.2/1 H220 | 2.5/L H280 | 2.6/4 H227 | 3.1.0/4 H302 | 3.1.D/3 H311 | 3.1.I/2 H330 | 3.2/2 H315 . Countries/areas that have official 3.3/2A H319 | 3.4.R/1 H334 | 3.4.S/1 H317 | 3.5/2 H341 | 3.6/1A H350 | 3.8/1 H370 | 3.9/1 H372 classifications: Alteration of classification: All GHS types, sorted by class One GHS type, the other GHS type are derived: Sorted by H phrases Only numbers Numbers and complete text EU, Russia, Taiwan, Australia, Sorted by classes Only numbers and abbreviations Complete South Africa, Brazil, China Japan, Exposure routes ³ Suppress classification for hazards of inhalation Korea, Malaysia Target organs ⁵ Causes atrophy of the testicles 🗖 Additional hazards for specific target organ toxicity LC50 calculation All other countries that have Suppl. hazard statements ¹⁸ Mutagenicity 3 22 PBT implemented a version of the GHS. ⁹ Addtl. statements A26 FUH208 4 8 🗆 12 🗆 ¹⁹ Carcinogenicity 2 23 vPvB ³ Output of the reduced labelling in the SDS Reproductive toxicity Their nuances are set in the Explosive acc. to regulation 1272/2008/EC Annex I section 1.3.5 Nota B D Maintenance of countries Suppl. hazard statement: (Maintenance programs – Various Addtl. statements tables – Countries) [Esc] E<u>x</u>it [F9] <u>T</u>exts [Ctrl G] Only output of selected GHS types [F6] Health classification limits [F7] Classification limits for physical hazards [Page 1] Next page

The options available under **Alteration of classification**, allow you to vary the output of the GHS information. Additional information regarding the GHS classification and the settings in ChemGes, can be found in the document **GHS & ChemGes** on our webpage, <u>www.dr-software.com</u> and in the manual as well as the online help.

The screen *Classification* contains additional information regarding the classification of the substance, in relation to the various country legislation. This screen is accessed by clicking into the *Classification* or the button **All GHS types, sorted by class**.



Color codes and their meaning:

Grey: Classes and categories were not adopted by the specific country.

Blue: Official / mandatory classification.

Yellow: Calculated classification.

Red: Manually selected classifications that are locked.	These will remain locked until you
click on the red field(s) again or select the button F10	Complete recalculation (Screen
GHS classifications).	

The tabs **General statements and prevention, Reaction** and **Storage and disposal**, allow you to view and manage the Precautionary statements of the various GHS implementations.

By clicking into the line for a GHS system you can select and deselect P- statments. Please remember, that the allocation of P-statements is legislatively defined and that the selection and deselection must only be based on legislative criteria.

♦ GHS-classifications	_			×							
File Edit GHS classifications Help (51.0.2)		\$								-	X
Hazarde General statements and prevention Reaction Storage and disposal		<u>File Edit H</u> el	p (<u>5</u> 1.0.2)								
Hazards General statements and prevention Reaction Storage and disposal		P201	P211	P220i	P230a	P240	P251	P260u	P261g	P280	P280j
General statements: 1 P101 🔽 2 P102 🔽 3 P103 💭 (dynamically activated ar	nd deactivated, if	P202	P220	P220i	P231	P241	P260	P260v	P261u	P280a	P281
Prevention		P210	P220a	P220k	P231+P232	P242	P260a	P260w	P261v	P280b	P281u
04 P201-P202-P210u-P260u-P264-P270-P271-P272-P280-P284 (P261-P280g-P280h)		P210a	P220b	P2201	P231a	P243	P260b	P261	P262	P280c	P282
Dottain special instructions before use		R210b	P220c	P2200	P231a+P232	P244	P260c	P261a	P263	P280d	P283
P202 Do not handle until all safety precautions have been read and understood.		P2106			0222	0250	D260d	0261b	P263	D2000	D204
P210u Keep away from flames and hot surfaces. – No smoking.	285}	P2100	P2200	P220V	P252	P230	P2000	P2010	P204	P2000	P204
P260u Do not breathe dusts or mists.		P2100	P220e	P221	P233	P250a	P200e	P2010	P270	P2801	P2848
5 P264 Wash thoroughly after handling. 4		P210e	P220f	P222	P234	P250b	P260f	P2610	P271	P280g	P284b
6 9 P270 Do not eat, drink or smoke when using this product. 4)		P210u	P220g	P223	P235	P250c	P260g	P261e	P272	P280h	P285
P2/1 Use only outdoors or in a well-ventilated area.		P210v	P220h	P230	P235+P410	P250d	P260h	P261f	P273	P280i	Estant
P2/2 Contaminated work clothing must not be anowed out of the workplace. P2/2 P2/2 P2/2 P2/2 P2/2 P2/2 P2/2		Count aa									Selecteo:
P284 [In case of inadequate ventilation] wear respiratory protection.											
P261 Avoid breathing dust/fume/gas/mist/vapors/spray			[Esc]	Exit		[F1] Output v	vith full text		[Ctrl F8] <u>C</u> c	py for all types	
12 P280g : Wear protective gloves.											
S125 14 P280h Wear protective gloves / protective clothing.											
P210e {P201-P202-P260h-P261-P264-P270-P271-P272-P280-P280g-P280h}											
P210e {P201-P202-P260h-P261-P264-P270-P271-P272-P273-P280-P280g-P280h	280i-P284}			Texts						- 0	×
IP P210 (P201-P202-P260-P260h-P261-P264-P270-P271-P272-P273-P280-P280g-P280	0h-P284}			<u>Eile Edit H</u> elp (5	1.0.2)						
P260h (P201-P202-P261-P264-P270-P271-P272-P280-P280g-P280h-P280i)				No.		Text					
19 D210 (2001-0202-0260h-0261-0264-0270-0271-0272-0280-0280h)				H220		Hazard stater	ments				_
				H227	4	Combustible li	iquid.				
P210e {P201-P202-P2000-P261-P204-P270-P271-P272-P280-P280g-P280n-P284}				H280	4	Contains gas i	under pressure; maj	/ explode if heated			
P210e {P201-P202-P260h-P261-P264-P270-P271-P272-P280-P280g-P280h}				H301	💶 📰 🔛 🛛	125 Toxic if swallo	wed.				
P210e {P201-P202-P210-P260-P261-P264-P270-P271-P272-P273-P280-P280g-P	0h-P280i-P284}			H302		Harmful if swa	llowed.				- 🛦
P210e {P201-P202-P260h-P261-P264-P270-P271-P272-P280-P280g-P280h-P284}				H314		125 Causes severe	skin burns and eye	damage.			_
SELF 24 P210e {P201-P202-P260h-P261-P264-P270-P271-P272-P280-P280g-P280h-P284}				H315	4	Causes skin in	ritation.				
				H317	💶 📰 📰 🖬	May cause an	allergic skin reactio	n.			
				H318		Causes seriou	s eye damage.				
[Esc] Exit [F10] Complete recalculation [F9] Texts [Ctr	rl P] <u>M</u> aint. Priority o	of Precautionary :	statements	H330		Fatal if inhaled	l.				
				H331	💶 📰 🔛 B	Toxic if inhale	d.				
Notor				H334	🚺 🔤 🔛 🛛	May cause all	ergy or asthma sym	ptoms or breathing	g difficulties if inhaled		
<u>Inote:</u>				H335		May cause res	piratory irritation.	. et a			- 11
By hovering over a line of D statements you	1 000 000	、		H341 H350		May cause car	causing genetic den icer.	eus.			
by novering over a fine of P-statements, you	u can see	5		H370	4	Causes damag	ge to organs.	J.			-•
the full text of the applied statements (see al	hove)			H372	4	Causes damag	ge to organs throug	h prolonged or rep	peated exposure.		
the run text of the applied statements (see at				H400		Very toxic to a	iquatic life.				-
				H401		Prevention	ic irre.				
				P201	🚺 🔤 🔛 🛙	12 Obtain special	instructions before	use.			
An overview of texts (see image on the right	t) can be				(Dense 1) New Yes	10.11		I DI Malan Data 2	(Decention of the		
				[Page ↓] <u>N</u> ext page	[Esc] E	<u>x</u> nt [Ct	ri Pj <u>M</u> aint. Priority o	r Precautionary statem	ents		
accessed via [F9] Texts.			/	/							

Via F6 Health classification limits (Screen *GHS classification*), can special limits be defined for classes 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10 and 5.1, as well as M factors for class 4.1. For substances that have special limits in the CLP, those limits are automatically transferred.

Via F7 Classification limits for physical hazards (Screen *GHS classification*), can special limits be defined for classes 2.1 to 2.17. For substances that have special limits in the CLP, those limits are <u>automatically</u> transferred.



D. Transport Classification

The screen Alt 6 *Transport* provides various fields for entering the transport data of your raw material for the following modes of transportation:

ADR/RID (European Road and Rail transport. RID data is identical to the ADR and thus not output separately) DOT/TDG (Transport Regulations for the USA and Canada) IMDG (Marine Transport) IATA (Air Transport)

				– 🗆 X
Eile Edit Help (51.0.2)				
Physical data Additional	physical-/chemical values TLVs Toxicological v	alues Substance listings Transport Country spe	cific information	
50-00-0 formaldehyde				
Classification 🔞 🔗	H227-H301+H311+H331-H314-H317-H3	41-H350		Flashpoint ≤93 °C, Boiling-point -21 °C
	ADR 🚛	DOT 🕗 TDG	IMDG 🛞	IATA 🖋
Class	8 🐳	8 🐳	8 👙	8 🐳
ADR Code	C9		///////////////////////////////////////	X/////////////////////////////////////
Packing group		W	 III	<u></u>
Label	8	8	8	8
Symbols	æ	a	42	
UN number	UN2209	UN2209	UN2209	UN2209
Name	2209 FORMALDEHYDE SOLUTION	Formaldehyde solutions	FORMALDEHYDE SOLUTION	FORMALDEHYDE SOLUTION
Danger/Kemler number	80		///////////////////////////////////////	
Marine Pollutant / 🐵	Fish and tree 🗌 (automatic)			
Limited quantity	5L	Rail: 5 L, 🛪 (Cargo): 60	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			
Hazardous Substance		100 lb / 45.4 kg		
Output RQ				
Poison Inhalation Hazard		Unknown		
EmS		X/////////////////////////////////////	8-07	
Segregation groups		X/////////////////////////////////////		
Stowage			A	
Comments	ADR: Lösung.	**********************		<u> </u>
Count 28 Last alteration of the tran During input: Automatic	sport classification 04/08/2002 dr Hazo	hem code		
[Ait Delete] Deletion of trans	port data [1/10] 2implified classification [Ctrl D]	time [con k1 Zobying [com -1 Mon-uszardons, tor all	types or transportation [Ctri F/] Maintenance proj	granis [Curroj En <u>y</u> , nazardous substances [Esc] E <u>xit</u>

Substances not classified for transportation, are identified by a dash (-) in the field **Class**.

In this screen you can either either entere the transport data manually, or let ChemGes calculate it based on the data in the database. Due to the nature of the transport classification, we recommend that the calculated classification is always verified.

Note:

Empty fields do not mean that the substance is not classified for transportation. For a raw material you can prompt ChemGes to perform a classification, but it will be based on a worst-case scenario approach and limited to the legislative restrictions. Upon clicking into the field Name, you can select hazard triggers for the corresponding transport type.

◆	□• –	۵	
Eile <u>E</u> dit <u>H</u> elp (<u>5</u> 1.0.2)		<u>File Edit H</u> elp ((2)
Solution Mixture		Substance	
Substance Description		number	Description
50-00-0 formaldebyde		General triggers	Janger
		2 50-00-0	(formaldehyde
I Tracel Evite (1.2) Selection Hazard triggers fo		larine Pollutant	
[55] 6 <u>k</u> it	[1,2] Selection	s	
		۹ A maximum of 2 h	rd triggers are output.
		[E	الكرين الأركين Selection الأركين Selection الأركين Selection
Additional information on transport classification			×
ile Eait Help (21.0.2)			
¹ The product contains organic substances 🛛	¹⁴ The product is a pesticide		By pressing [F10] Simplified
² The product is acidic	¹⁵ The product is a color add	litive	classification you can access the screen
³ The product contains inorganic acids	¹⁶ Solvent separation test < 3	3%	clussification, you can access the sereen
⁴ The product is alkaline			Additional information on transport
^s The product contains inorganic bases 📃	¹⁷ Volume > 1 l (aerosols)	×	alassification
⁶ Hazardous reaction with water	¹⁸ Volume 🍊 <=5 litre		classification:
	<=30 litre	450 liter	Via F10 vou can perform a
⁷ Can spontaneously lead to intense reaction	> 30 and <=	450 litre	
⁸ Transport temperature ≥ flash point	30 × 450 lide		Classification , and via [Ctrl][F8] you
⁹ The product will be transported in a molten state	¹⁹ No calculation of the class	es 4.1-4.3 and 5.1	can Recalculate additional information
	²⁰ Pasty according to penetro	ometer test	can Accalculate autilional information
¹⁰ Transport temperature ? °C			
Temperature control necessary	²¹ Vapor pressure at 50°C	<=110 kPa	
12 Type of packaging <a> normal		>110 KPa	
C IBC (Container)	²² Transport includes sea tran	nsport	Note:
C tank	²³ Not output of 'hazardous'	for the environment	Additional information concerning the
			Additional information concerning the
¹³ Corrosion rate on steel or aluminum ≥ 6,25 mm a vear			
¹³ Corrosion rate on steel or aluminum \geq 6,25 mm a year $$			transport classification can be found in A
¹³ Corrosion rate on steel or aluminum ≥ 6,25 mm a year I			transport classification can be found in the document Transport on our website
¹³ Corrosion rate on steel or aluminum ≥ 6,25 mm a year [Esc] Exit [F10] Classification [Ctrl F10] Classifi	fication results [Ctrl F8] <u>R</u> ecalculate ad	lditional information	the document Transport , on our website

E. NFPA / HMIS

After selecting the option **NFPA** or clicking on Ctrl N in the **Maintenance of raw materials**, you can enter or change the data for *NFPA* and *HMIS*.

Maintenance of raw materials <u>File Edit Database Help (520.15)</u>	□ – □ ×
CAS number 50-00-0 1 Index number 605-001-00-5 2 EC number 200-001-8 formaldehyde% FORMALDEHYDE FORMALDEHYDE Formaldehyde% Forma	¹⁹ State liquid ¹⁰ Flash point ≤93 °C ¹⁴ Boiling point -21 °C ¹⁰ NFPA- and HMIS-ratings □ File Edit Help (52.0.15) ¹ Saturation concentration 2 ² Combustion products □ ³ The product forms explosive mixtures with air □ ⁴ The product forms explosive mixtures with air □ ¹ The product forms explosive mixtures with air □ ¹ The product solid and burns explosive □ ³ The product solid and burns explosive □ ⁴ The product torms in the air after heating to 515°C for 5 min □ ⁶ The product reacts explosive with water without heat input □ ⁷ Degradation or modification in air, light or damp □ ⁸ Exothermic reaction > 150 °C, according to the DSC method □ ⁸ Exothermic reaction > 150 °C - ≤300 °C, according to the the DSC method □ ¹¹ 1 ¹⁰ 1 ¹¹ 1
warrung warrung Image:	[←, Esc] Exit [Ctrl T] Iox values
[Esc] Save and exit [F1] Iranslations of the descriptions [Alt F3] Variants (1) [fh F3] Change of variant [Ctrl F7] Tremcard [Alt F8] PDF files (-) [Alt F11] Memi [Ctrl C] Copy/alteration/exchange [Page 1] Occurrence in preparations [Ctrl I] Data for ISS notification [Ctrl P] Product information [Home] Price	o [Ctrl F8] Versjons of old SDSs [^ F6] Copy label [Alt Delete] Delete [Alt 9] Reference [Ctrl R] REACH Pre-registration [1] Negt page

3. Using the raw material in a preparation

A raw material can be chosen in the *formulation* screen via CAS Number, Name, Product Code or pseudo CAS Number.

In order to enter the *Maintenance of Raw Materials* for a specific substance in the formulation screen, click on the substance and choose the option *Maintenance of raw materials*.

* Formulation	□ – □ ×	
Eile Edit Help (51.0.2)		
Basic screen Formulation Physical data Country specific classifications Transport		
Formulation 1,000 Resin solution X 50		
Substance number Description 1 25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number avera	ae molecular weight <= 700)	
2 108-88-3 toluene		
03 78-92-2 butanol	A 6 5.00	
[Page 1] Substance overview	5.00	
5 [1] Previous line No.+ (Page 1) Maintenance of raw materials	20.00	
[Ctrl]ext		
[F1] Product code [F10] Search for strings within the text		
[Alt Delete] Delete		
[insert] [insert [insert]]		
[Esc, Ctrl End] End of input		
Ctri Hi Button window off		
	🔶 Maintenance of raw materials - From fo	rmulation: 1,000 1234567890 Resin solution X 50
	<u>File E</u> dit Data <u>b</u> ase <u>H</u> elp (<u>5</u> 1.0.2)	
	CAS number 78-92-2	1 Index number 603-127-00-5
	CAS humber 1/0 52 2	
	3	
	Butanol	

Note:

Keep in mind that changes done to raw materials which are contained in a preparation, will only take effect in the preparation if the automatic or manual update implements them. (Ctrl F4 *Maintenance Programs – Program Adjustments – Classification options* (Options 1 to 6).)

Substances in formulations can be automatically exchanged, via the **Exchange Program** for the **Exchange of Ingredients**. (Ctrl 3 Administration programs – Exchange of Ingredients)

• ChemGes			– 🗆 X
Edit Additional functions <u>H</u> elp			
		Version 54.0.5	(02/17/2022, 13:41)
		version 54.0.5 (Feb	ruary 17, 2022, 13:41) is available 😃
	Auministration of Chemica		
🔶 Administration programs 🛛 💷 🚽 —	X wommon A chemic	100 CO	20000
A ♣ Stock control			000000
Classification programs	ita output [Ctrl 3] 🏶 Administration progra	ms [Ctrl 4] SO? Maintenance program	
8 Annual Reclassification of formulations			<u> </u>
 Recalculation of the safety phrases f 	or all formulations Last ret	trieved substances	
 Recalculation of transport classificat 	ons 0 formaldehyde		8000
E 🚯 Recalculation of the environmental	azard for transport		2 000
F & Recalculation of flammability of ae	🕸 Exchange of ingredients 🛛 🕮	– 🗆 X	
G Recalculation of all water hazard c	ile Edit Help (54.0.5)		80100
H HOP Transfer of locked H- and P-phrase			▲ 🚯
Conversion prices	Old ingredient New ingredier	<u>nt</u>	80180
Exchange programs	101316-67-0/1 Hydrocarbons, C6-rich, 101316-67-0/2	Hydrocarbons, C6-rich,	▲ :
2000 Exchange of ingredients			<u>▲ @ ()</u>
K E Replacement of phrases in Safety E	[t]		
L Change of the review date in all Sa	[Page 4] 🗟 Overview		\$ \$ \$ \$
M m Deletion of preparations	[F1] m# Product code	— i I	۵ 🗘 🗞
File repair programs	[F2] 📲 Index number	— 	
N Sepair defective files	[F3]	— 	
 Creation of description index 	[F10] 🔍 Search for strings within the text		
국Settings for backups			
▷ 補書 Immediate backup			S 🔇
의 두고 Settings for the automatic backup			
Backup for the transfer to DR-Soft			
Updates and upgrades			
s 🧳 Program and data update from a m			
Program and data update from the			
U GHS and EU guidelines	, , , ,	,	
v 🙀 🔝 Installation of languages or the lal	Print protocol 🕱		
Maintenance mode			8000
× fra Transfer of the IFRA/IOFI Labeling Manual			户 Print SDSs
Y 🐗 Create data for MSDS+			🕅 Print labels
² Individual customer programs			
OK 🖋 🛛 📴 Exit 🛛 [Ctrl B] Activation of the 15. ATI	(for Europe) - automatic transfer on 03/01/2022 [Ctrl E] Activ	ation of the 17. ATP (for Europe) - automa	atic transfer on 12/17/2022

More detailed Information can be found in the Manual to ChemGes

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