

Update features ConsExpo Web, version 1.1.0

October 2021

Below we summarize features added and issues addressed in ConsExpo Web after its release in October 2016.

Feature	description
<i>ConsExpo Web 1.1.0 – October 2021</i>	
Duplication of assessments	Functionality to duplicate assessments is added to quickly build new pre-filled assessments including scenarios
Retention factor	The dermal model – instant application includes the retention factor as new parameter. By default set to 1, but can be adapted for e.g. rinse-off products
Automated reporting of version and date	The export report is now standard equipped with version number and date.
Exposure fractions	Results of ConsExpo Web now contain exposure fractions. These fractions can be copy-pasted to PACEM Web or used manually for other purposes.
Batch assessment functionality	A new tab is introduced containing the Batch Assessment mode, where multiple assessments can be run in parallel containing varying combinations of product scenarios – substances and populations. A manual is made available to guide the user in this new feature.
Repair of bugs	<ul style="list-style-type: none"> - Download of graphs enabled - Error message corrected to provide the factual reason for error - Comma separator error fixed in .csv file - Calculation issue with weight fraction very close to 1 resolved
<i>ConsExpo Web 1.0.7 – March 2020</i>	
Update help text	Help texts (?) are aligned with the manual published in 2017.
Parameter information	<ul style="list-style-type: none"> - Information on exposure parameters is added (i) on their use in the specific model - For partition coefficient and distribution coefficient (used in the emission model), a list with values from literature is added
Beta-distribution	Next to other distribution types, the possibility to select a beta-distribution is added
Export report	The export to excel is improved. A choice for the way of separation (comma, point) is included, and the report can be more easily opened in excel.
Adapt mistakes	Some mistakes were found in the fact sheet database, which were adapted (model choice for

	volatiles and non-volatiles were switched for oven spray cleaner)
<i>ConsExpo Web 1.0.6 – February 2019</i>	
Repair of some bugs	<ul style="list-style-type: none"> - Choice of population defaults for body weight and inhalation rate is available again - Importing .ce4 files is possible again - dermal absorption model input now works correctly
<i>ConsExpo Web 1.0.5 – November 2018</i>	
Option to use a non-parametric particle size distribution, and bug fixes	<p>In this version, the option to use non-parametric aerosol particle size distributions in spray model simulations is added.</p> <p>A bug in the reporting to excel, for some dermal models, is solved.</p> <p>A bug in the Chesar output, with regard to the information on the distribution type for aerosol particle size distribution is solved.</p> <p>An input feature for new or adapted default values for the fact sheet database is added, which makes it easier for RIVM to adapt defaults.</p>
<i>ConsExpo Web 1.0.4 - October 2018</i>	
Defaults for 'airborne fraction' from erratum Cleaning Products Fact Sheet	The defaults for the input fields 'airborne fraction' in the spray exposure scenarios that consider all-purpose cleaner spray, bathroom cleaner spray, floor polish spray, furniture polish spray, leather maintenance spray and glass cleaner spray have been adapted as described in the Erratum to the Cleaning Products Fact Sheet 2018.
<i>ConsExpo Web 1.0.3 - February 2018</i>	
Bug fix	Error in exposure to vapour – evaporation model when exposure duration is 100x higher than emission duration, the model fails to execute and returns an error.
<i>ConsExpo Web 1.0.2 - January 2018</i>	
Peak exposure	For the inhalation models “exposure to spray” (instantaneous, spraying) and “exposure to vapour” (instantaneous release, constant release and evaporation) the estimation of the time-weighted average for 15 min at peak exposure is included.
Excel report	The copy function for the report is replaced by the functionality to download the input and output data as .csv file (which can be opened in excel.
Population characteristics	For the population characteristics body weight and inhalation rate, a 'select default' possibility is included. A selection can be made from Canadian

	defaults, ConsExpo fact sheet and EU Biocides Framework.
Defaults from updated Cleaning Products FS	The Cleaning Products Fact Sheet (Meesters et al. 2017, in preparation) is being updated. The adapted or new defaults are already included in the ConsExpo Web Fact Sheet default database. This includes the addition of a parameter for dilution in the “exposure to vapour – evaporation” model.
Duplicate scenario	Addition of the possibility to copy a scenario.
Preview of fact sheet defaults	Addition of a preview of the model and default values including the Q-factors are provided in a panel (as was in ConsExpo 4.1).
Further features	<ul style="list-style-type: none"> - Setting of the mass transfer coefficient as default to 10 m/hr - Inclusion of CAS nr at substance properties - Panel with assessments set at maximum size , with scroll bar - Possibility to include text in a comment box per exposure route (included as information in the report as well as in the export to Chesar)
<i>ConsExpo Web 1.0.1 – July 2017</i>	
Export functionality to Chesar	Creates output file which can be imported in Chesar
Various minor bugs	<ul style="list-style-type: none"> - Error message invalid lognormal distribution - Add units to x-axis distribution graphs - Error in emission model when using a distribution for product-air partition coefficient - Un caught error when using distribution for body weight - Runtime error when using spray model in combination with oral ingestion without specification of inhalation rate
Set ‘limit concentration to saturated air concentration’ default true in exposure to vapour instant release	Is the most appropriate default behaviour
Round-off errors when using distribution of very small particles in spray model	Solved by more refined sampling of the diameter distribution (not always over – 0-max diameter, but from mean – 3 sd’s to mean + 3 sd’s)
Exporting graphs to Excel	Export of graphs of the air concentration to Excel was required for further manipulation outside ConsExpo as suggested by Recommendations of the Ad hoc Working Group on Human Exposure for the exposure assessment of, for example, disinfectants.