

How to create a system level process from a unit level process

To protect the confidentiality of data, with the Developer version of SimaPro you can create a system level process (aggregated data) from a unit level process.

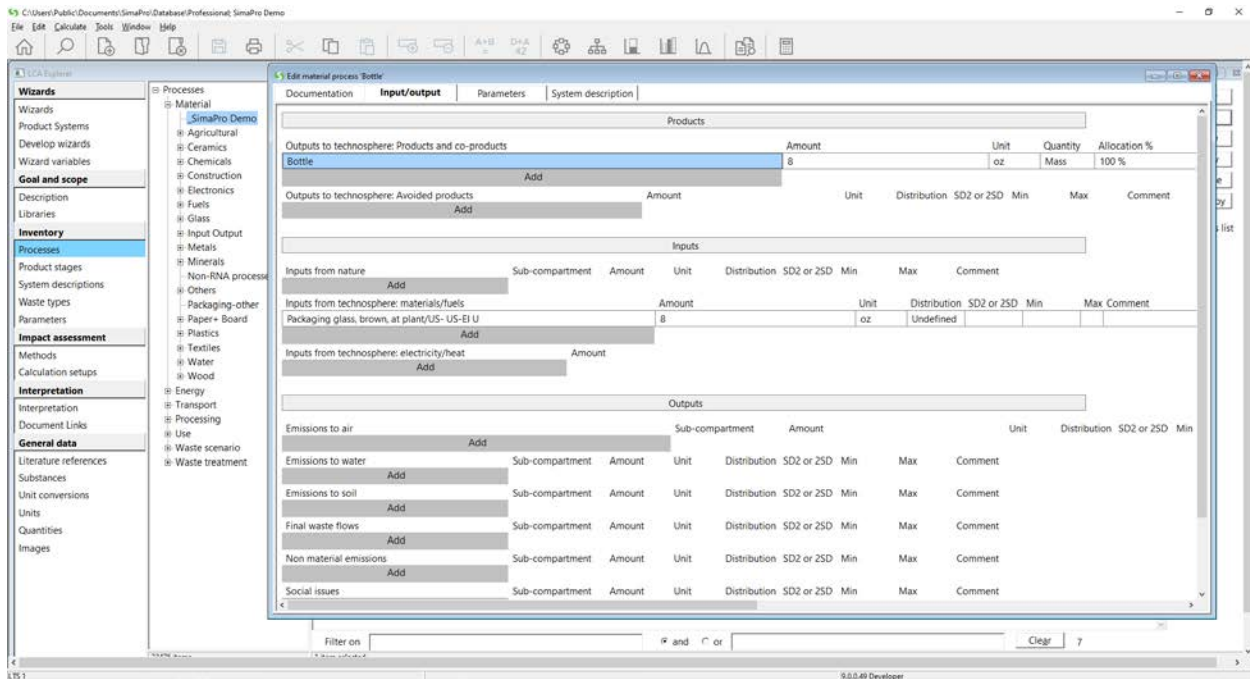
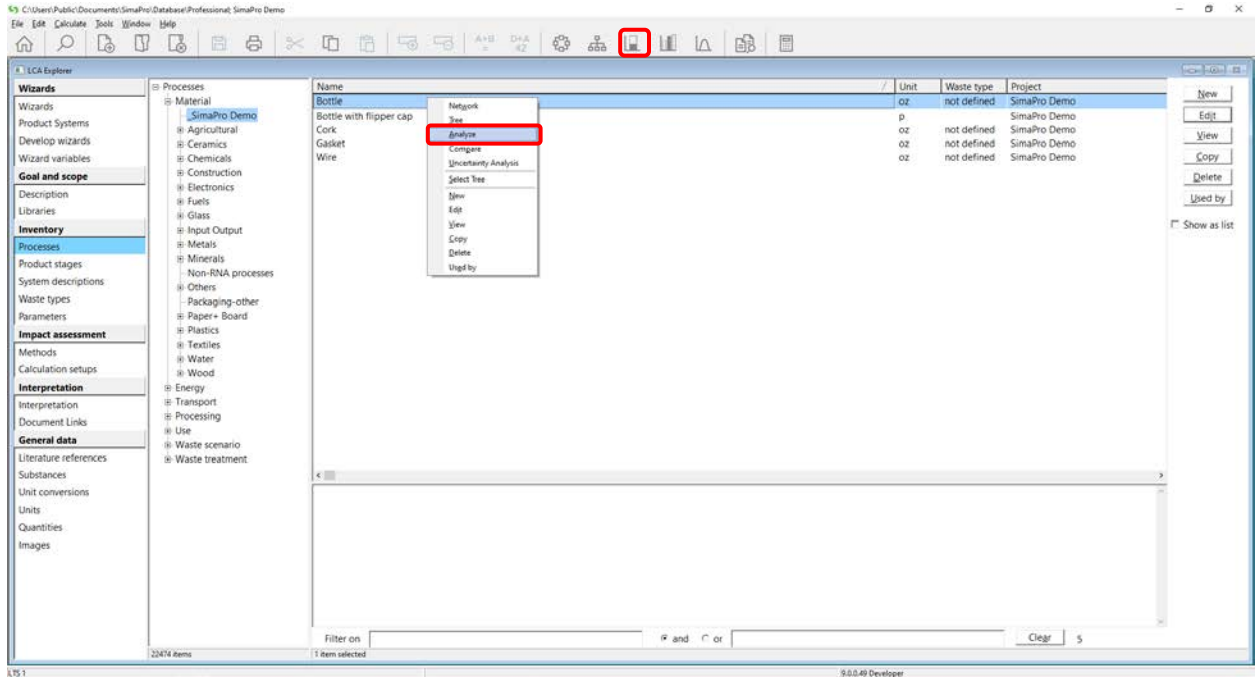
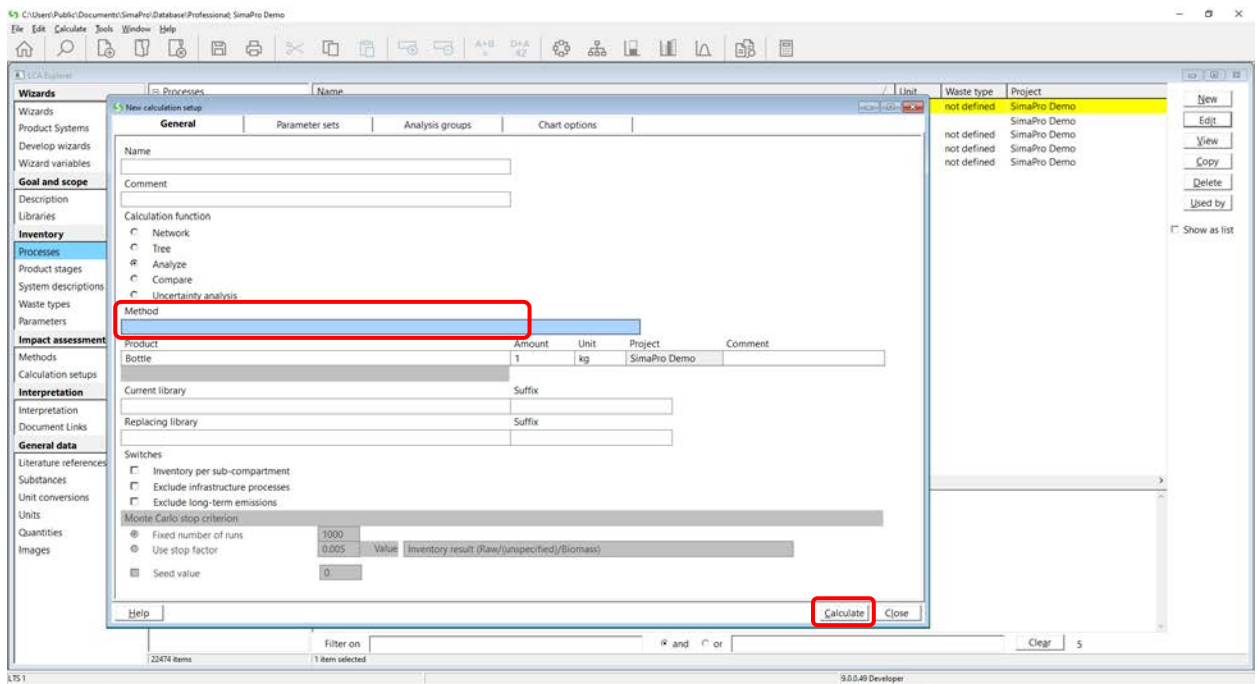


Figure 1: Example Unit Process

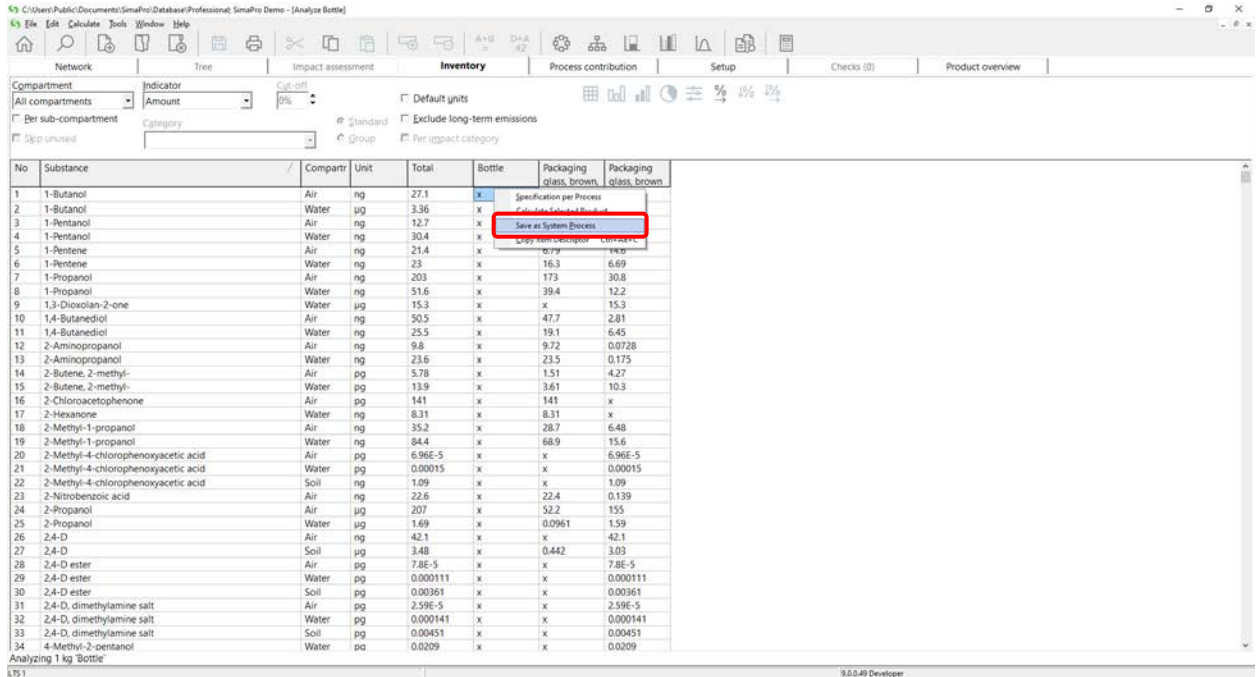
1. Right click on the unit level process you would like to convert and click 'Analyze' or click on the 'Analyze' icon.



2. Click 'Calculate' while leaving the 'Method' field blank.

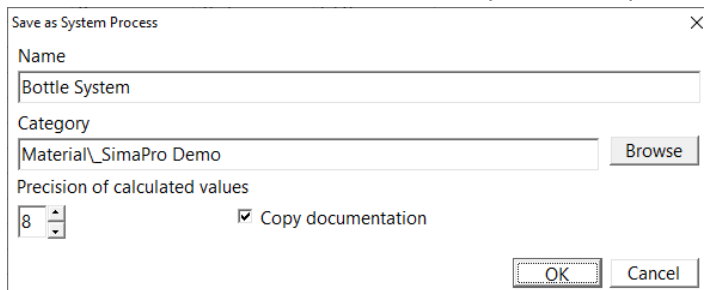


- Once calculation is complete, an inventory of substances will appear. Right click on any of the substances and click 'Save as System Process.'



No	Substance	Compart	Unit	Total	Bottle	Packaging	Packaging
1	1-Butanol	Air	ng	27.1	x	Specification per Process	glass, brown
2	1-Butanol	Water	µg	3.36	x	Calculate Selected Element	
3	1-Pentanol	Air	ng	12.7	x	Save as System Process	
4	1-Pentanol	Water	ng	30.4	x	Copy from Element	
5	1-Pentene	Air	ng	21.4	x	6.99	1.60
6	1-Pentene	Water	ng	23	x	16.3	6.69
7	1-Propanol	Air	ng	203	x	173	30.8
8	1-Propanol	Water	ng	51.6	x	39.4	12.2
9	1,3-Dioxolan-2-one	Water	µg	15.3	x	x	15.3
10	1,4-Butanediol	Air	ng	50.5	x	47.7	2.81
11	1,4-Butanediol	Water	ng	25.5	x	19.1	6.45
12	2-Aminopropanol	Air	ng	9.8	x	9.72	0.0728
13	2-Aminopropanol	Water	ng	23.6	x	23.5	0.175
14	2-Butene, 2-methyl-	Air	pg	5.78	x	1.51	4.27
15	2-Butene, 2-methyl-	Water	pg	13.9	x	3.61	10.3
16	2-Chloroacetophenone	Air	pg	141	x	141	x
17	2-Hexanone	Water	ng	8.31	x	8.31	x
18	2-Methyl-1-propanol	Air	ng	35.2	x	28.7	6.48
19	2-Methyl-1-propanol	Water	ng	84.4	x	68.9	15.6
20	2-Methyl-4-chlorophenoxyacetic acid	Air	pg	6.98E-5	x	x	6.98E-5
21	2-Methyl-4-chlorophenoxyacetic acid	Water	pg	0.00015	x	x	0.00015
22	2-Methyl-4-chlorophenoxyacetic acid	Soil	ng	1.09	x	x	1.09
23	2-Nitrobenzoic acid	Air	ng	22.6	x	22.4	0.139
24	2-Propanol	Air	µg	207	x	52.2	155
25	2-Propanol	Water	µg	1.69	x	0.0961	1.59
26	2,4-D	Air	ng	42.1	x	x	42.1
27	2,4-D	Soil	µg	3.48	x	0.442	3.03
28	2,4-D ester	Air	pg	7.8E-5	x	x	7.8E-5
29	2,4-D ester	Water	pg	0.000111	x	x	0.000111
30	2,4-D ester	Soil	pg	0.00361	x	x	0.00361
31	2,4-D, dimethylamine salt	Air	pg	2.59E-5	x	x	2.59E-5
32	2,4-D, dimethylamine salt	Water	pg	0.000141	x	x	0.000141
33	2,4-D, dimethylamine salt	Soil	pg	0.00451	x	x	0.00451
34	4-Methyl-2-pentanol	Water	pg	0.0209	x	x	0.0209

- Confirm or change the name. Confirm or change the category by clicking 'Browse' to choose a different category. Adjust the precision of calculated values. Copying documentation is also recommended. Then click 'OK' and the system level process will be created.



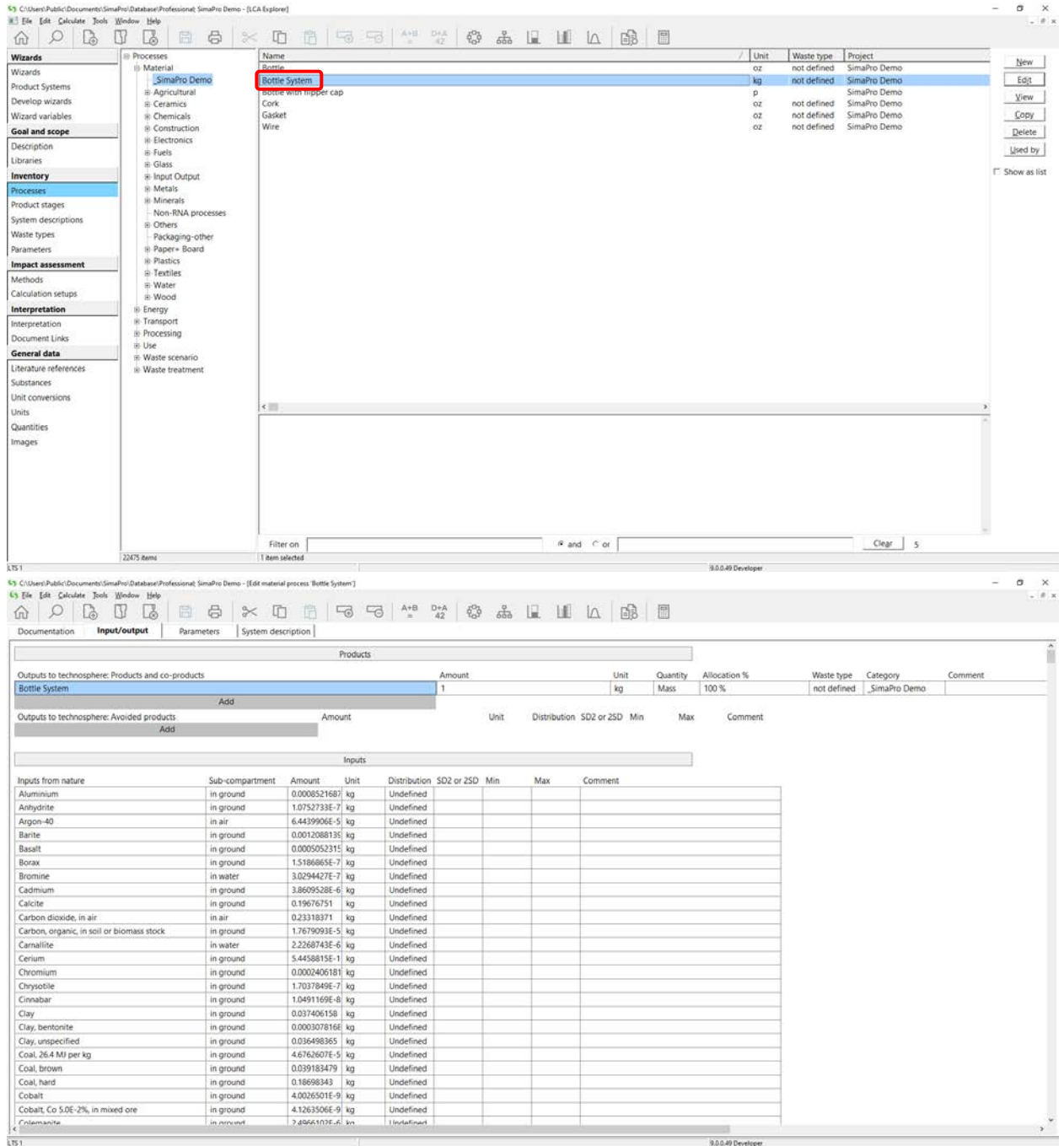
Save as System Process

Name:

Category:

Precision of calculated values:

5. The new system level process will appear in the category chosen.



The screenshot shows the SimaPro software interface. The top window displays a list of processes under the 'Bottle System' category. The 'Bottle System' process is highlighted, and its details are shown in the main pane. The bottom window shows the 'Input/output' tab for the 'Bottle System' process, displaying a table of inputs and outputs.

Inputs from nature	Sub-compartment	Amount	Unit	Distribution	SO2 or 2SD	Min	Max	Comment
Aluminum	in ground	0.0008521687	kg	Undefined				
Anhydrite	in ground	1.0752733E-7	kg	Undefined				
Argon-40	in air	6.4439906E-5	kg	Undefined				
Barite	in ground	0.0012088135	kg	Undefined				
Basalt	in ground	0.0005052315	kg	Undefined				
Borax	in ground	1.5186665E-7	kg	Undefined				
Bromine	in water	3.0294427E-7	kg	Undefined				
Cadmium	in ground	3.8609528E-6	kg	Undefined				
Calcite	in ground	0.19676751	kg	Undefined				
Carbon dioxide, in air	in air	0.23318371	kg	Undefined				
Carbon, organic, in soil or biomass stock	in ground	1.7679093E-5	kg	Undefined				
Carrollite	in water	2.2268743E-6	kg	Undefined				
Cerium	in ground	5.4458815E-1	kg	Undefined				
Chromium	in ground	0.0002406181	kg	Undefined				
Chrysothite	in ground	1.7037849E-7	kg	Undefined				
Cinnabar	in ground	1.0491169E-8	kg	Undefined				
Clay	in ground	0.037466158	kg	Undefined				
Clay, bentonite	in ground	0.0003078166	kg	Undefined				
Clay, unspecified	in ground	0.036496365	kg	Undefined				
Coal, 26.4 MJ per kg	in ground	4.6762607E-5	kg	Undefined				
Coal, brown	in ground	0.039183479	kg	Undefined				
Coal, hard	in ground	0.18698343	kg	Undefined				
Cobalt	in ground	4.0026501E-9	kg	Undefined				
Cobalt, Co 5.0E-2%, in mixed ore	in ground	4.1263506E-9	kg	Undefined				
Colemanite	in ground	7.4966107E-6	kg	Undefined				

Figure 2: Example System Process