

chemSHERPA V2R1 Technical Guide

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Joint Article Management Promotion-consortium
(JAMP)

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1. Notes when outputting V2 format data with Tool V2R1

[Applicable cases]

This note applies only when outputting data in V2 format with Tool V2R1.

It does not apply when inputting data in V2 format with Tool V2R1, or when inputting or outputting data in the standard V2ex format.

[Purpose of use]

This allows you to output V2 format data as a temporary measure when your company's system has not yet adopted the V2ex format.

[Points to note]

When outputting in V2 format, components in the middle hierarchy of the composition information may be aggregated to the higher hierarchy. In addition, aggregation may reduce the hierarchy mass and change (increase) the "content rate in article" with the hierarchy mass as the denominator.

Substances that require reporting judgment in "content rate in article" are mainly SVHC (Substances of Very High Concern).

If the Article flag※1 is set to an end part※2 (or material), there is no impact because the calculation is done with the denominator of that part (or material).

[Countermeasures]

When outputting data in V2 format with Tool V2R1, please take one of the following measures No.1 to No.3

1. Do not change the Article flag in the end part of the tool from the default setting (remove the Article flag). We recommend the default setting of the Article flag, which corresponds appropriately to "the Guidance on requirements for substances in articles" issued by ECHA.
2. The hierarchy of V2 format data read by Tool V2R1 will be maintained (the three-level hierarchy shown by "Product"- "Level"- "Component" in V2 format).
3. If either 1 or 2 is difficult (cases where the Article flag is changed and there are four or more levels of hierarchy), a hierarchical structure that configures original parts at lower levels within the original parts will not be created. Please refer to **"Example of configuration for Countermeasure No. 3"**.

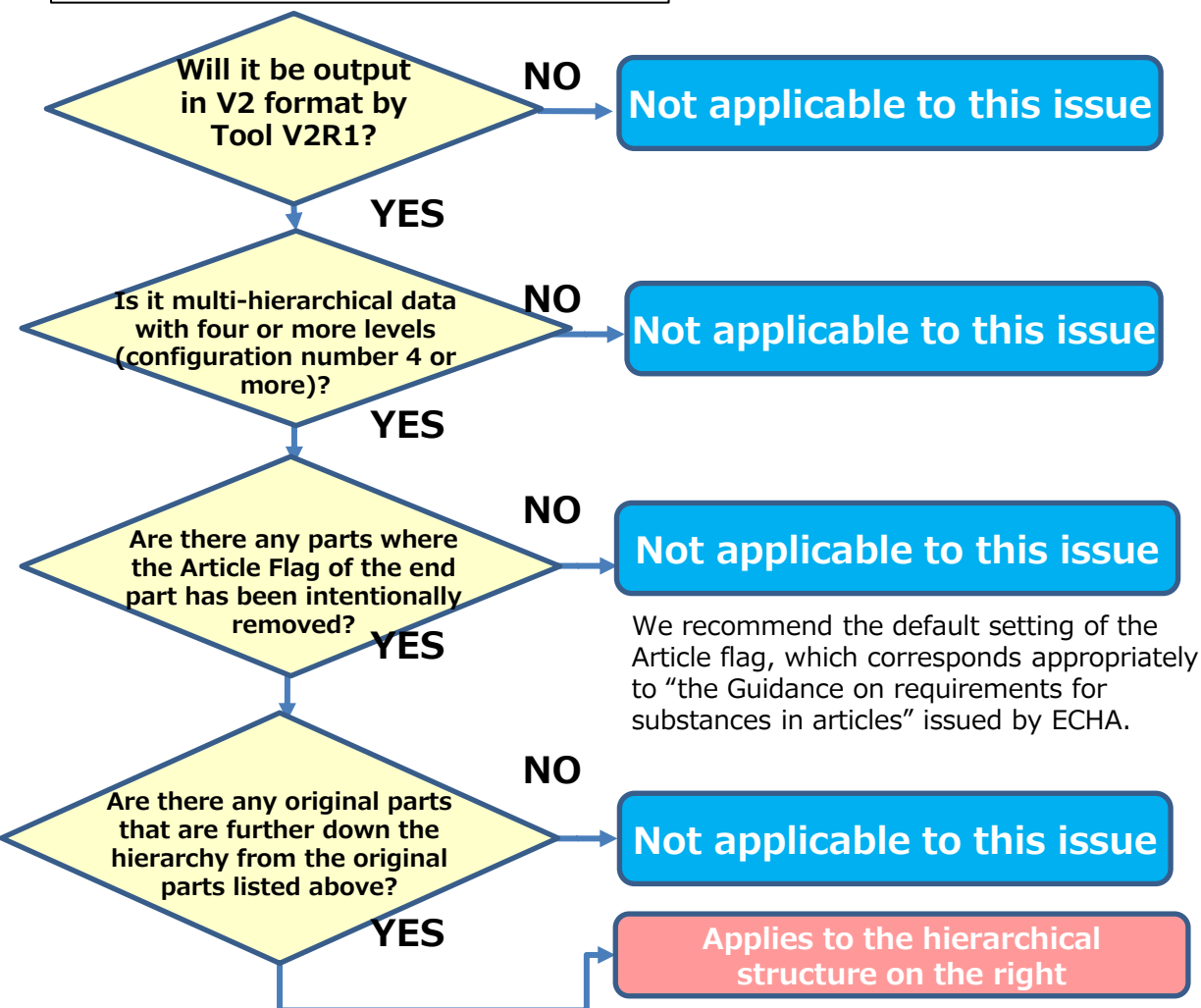
⇒Detailed explanation will be given on the following pages.

※1 **Article flag (referred to as AF in the diagram on the following pages):** Flag that specifies the calculation denominator for the content rate of SVHC, etc.

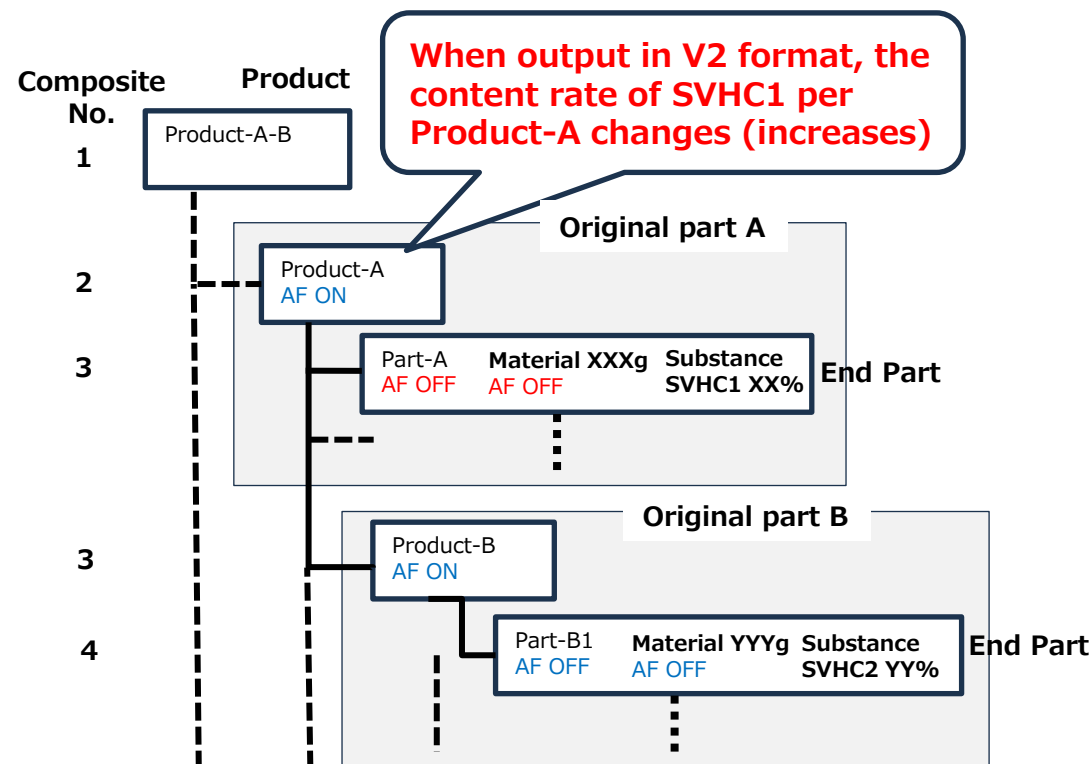
※2 **End part:** A part for which materials and substances can be defined, and which does not configure other parts at its lower level

2. Flowchart for determining whether or not the caution is applicable and details of caution

Judgment flow for this note

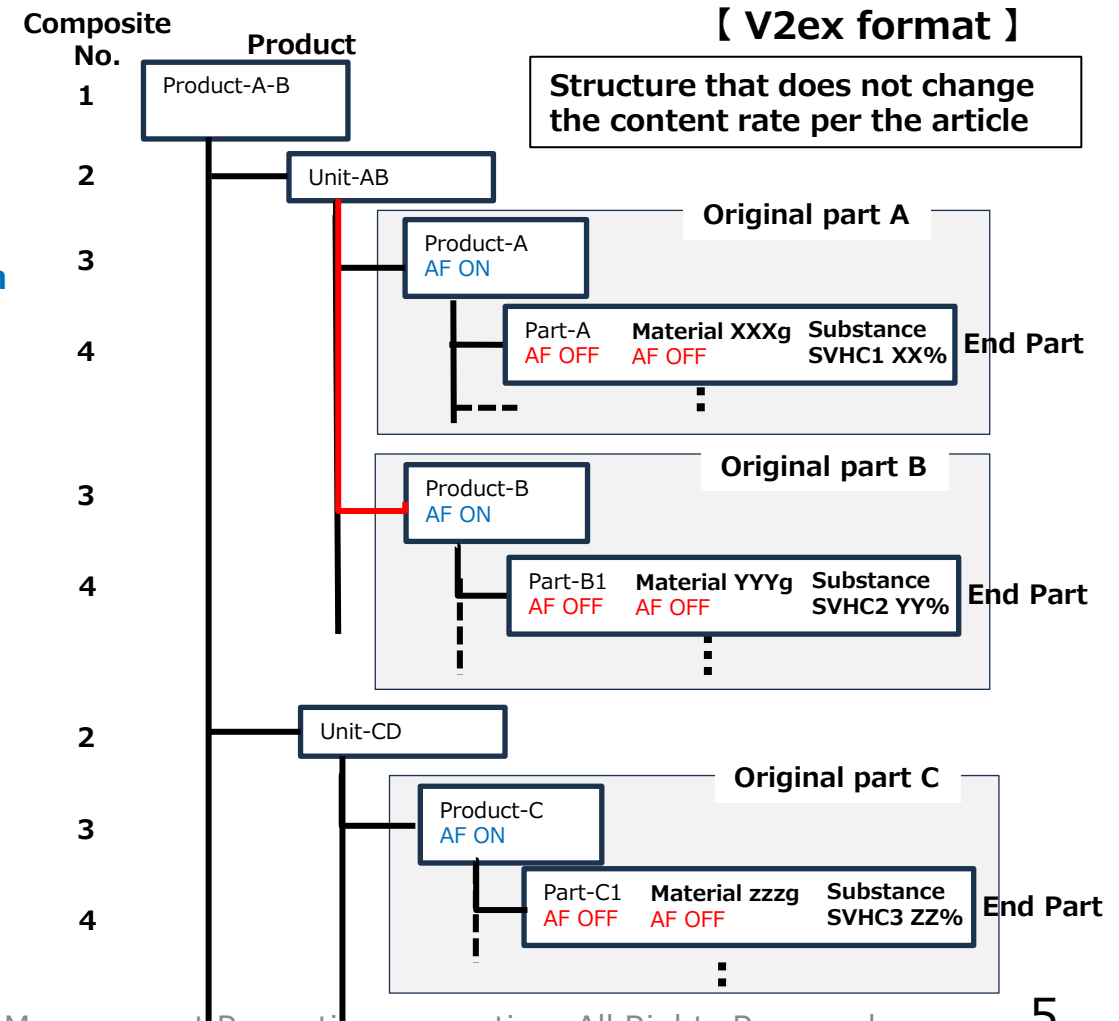
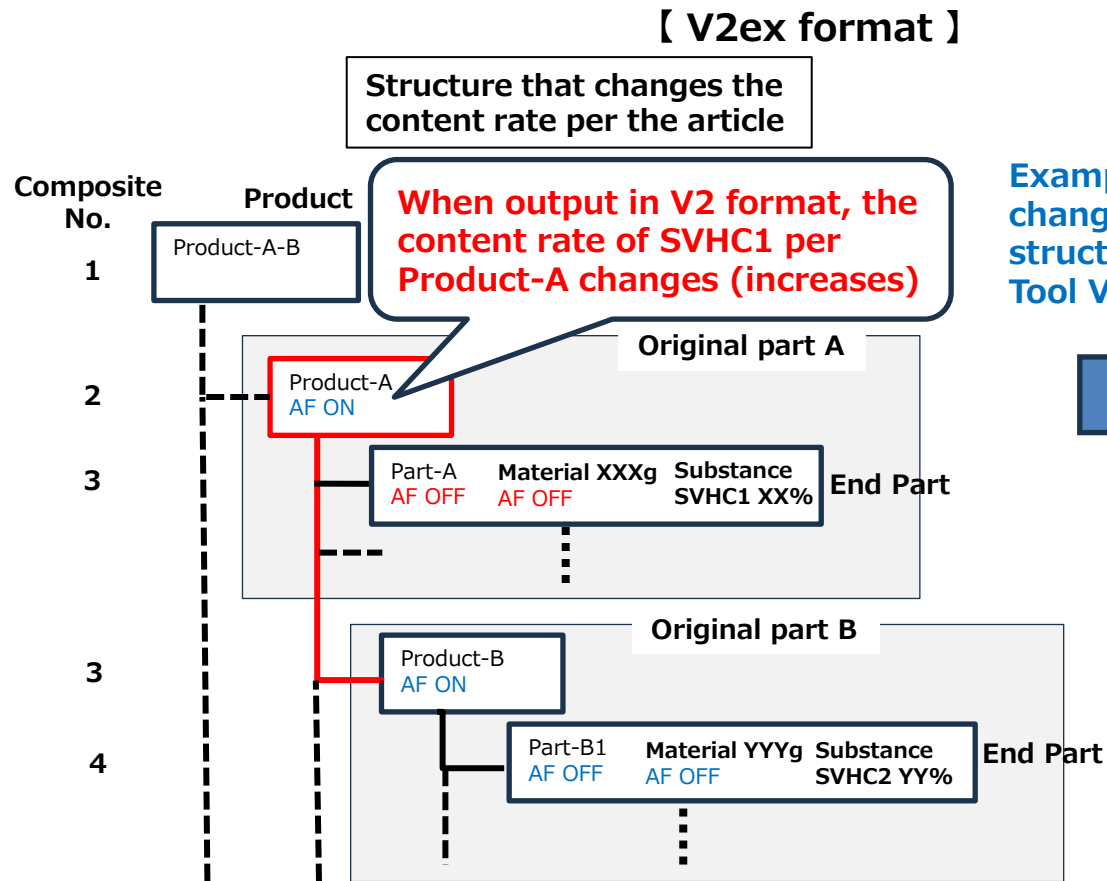


■ If this applies to the flowchart on the left, the components in the middle hierarchy of the composition information will be aggregated to a higher hierarchy, which will reduce the hierarchy mass as shown in the figure below and change (increase) the "content rate in the article" which uses the hierarchy mass as the denominator.



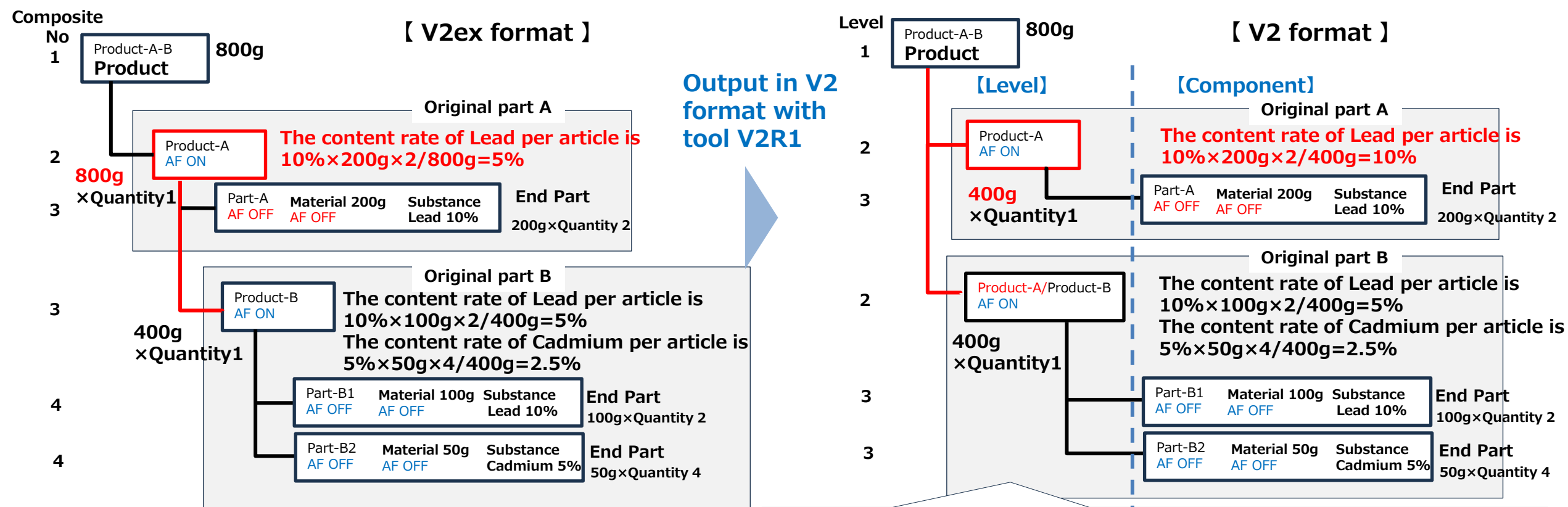
3. Example of configuration for Countermeasure No. 3

- Instead of adopting the "structure that creates a hierarchical structure that consists of original parts at the bottom" shown in the left figure, create it with the "structure that does not create a hierarchical structure that consists of original parts at the bottom" shown in the right figure. Normally, when integrating operation with a tool, the structure shown in the right figure is created, and the structure shown in the left figure is not created unless it is created intentionally.



4. Output of V2 format data (when the content rate per article changes)

- If the Article Flag (shown as AF in the figure) is changed to a level above the end part, in a hierarchical structure like the one on the left (where the original part is further down the hierarchical level from the original part), the output in V2 format will aggregate to a higher hierarchical level, so the hierarchical mass will decrease as shown in the right figure, and the "content rate in article" with the hierarchical mass as the denominator will change (increase).



* Tool V2R1 does not have the V2 format expression shown in the above figure. It cannot be read even with previous V2 versions of the tool. This diagram explains that the output data structure is in V2 format. This will only become apparent when this V2 format data is read into V2R1 or into an individual company's system.

4-1. V2R1 screen (V2ex format)

AI Data entry support tool for the chemSHERPA-AI

File

Export to Excel (for reference)

Show Article Flag

Show Total parts mass

Show SCIP information

To display the Article Flag, Total parts mass, and SCIP information, select from the "File" menu in the upper left of the Composition screen.

【 V2ex format 】

Component							Material					Substance			
Composite No.	Component No.	Component name	Article	Quantity	Mass	Unit	Usage	Classification symbol	Name	Article	Mass	Unit	Substance	CAS No.	content rate per materials
	Add component		Recalculation		Recalculation		Select material	Add material					Select	Add substance	
	Delete component						Quote CI	Delete material						Delete substance	
*	*	*		*			*	*			*	*			
1	1 p-AB01	Product-A-B	on		800	g									
2	2 Parts00001	Product-A	on	1	800	g									
3	3 Parts00002	Part-A		2	200	g	1.base...	R101	Steel...		200	g	Lead; Lead...	7439-92-1	10
4	3 Parts00003	Product-B	on	1	400	g									
5	4 Parts00004	Part-B1		2	100	g	1.base...	R101	Steel...		100	g	Lead; Lead...	7439-92-1	10
6	4 Parts00005	Part-B2		4	50	g	1.base...	R101	Steel...		50	g	Cadmium; ...	7440-43-9	5

SCIP											
Enlarge or Reduce: Ctrl+scroll											
	Product name	Component no	Component name	Number	Row	Primary Article Identifier	Article Name	Material name	Substance name	Maximum content rate per materials(%)	Content rate (%) in an article
1	Product-A-B					p-AB01	Product-A-B				
2		Parts00001	Product-A	1	3	p-A01	Product-A	Steels/cast s...	Lead; Lead p...	10	5
3		Parts00003	Product-B	1	5	p-B01	Product-B	Steels/cast s...	Lead; Lead p...	10	5
4					6			Steels/cast s...	Cadmium; C...	5	2.5

4-2. V2 (assumed) screen (when the content rate in the article changes)

【 V2 format 】

Composition																		
	Level		Component					Material						Substance				
	Name	Quantity	Name	Article	Quantity	Mass	Unit	Usage	cation symbol	Name	Article	Mass	Unit	Substance	CAS No.	content rate per materials		
	Add		Add			calculati		Select	Add					Select	Add			
			*		*			*	*			*	*					
1	Product-A	1	Part-A	▼	2	200	g	▼	1.ba...	R101	Steel...	▼	200	g	▼	Lead	7439-92-1	10
2	Product-A/Prod...	1	Part-B1	▼	2	100	g	▼	1.ba...	R101	Steel...	▼	100	g	▼	Lead	7439-92-1	10
3			Part-B2	▼	4	50	g	▼	1.ba...	R101	Steel...	▼	50	g	▼	Cadmium...	7440-43-9	5

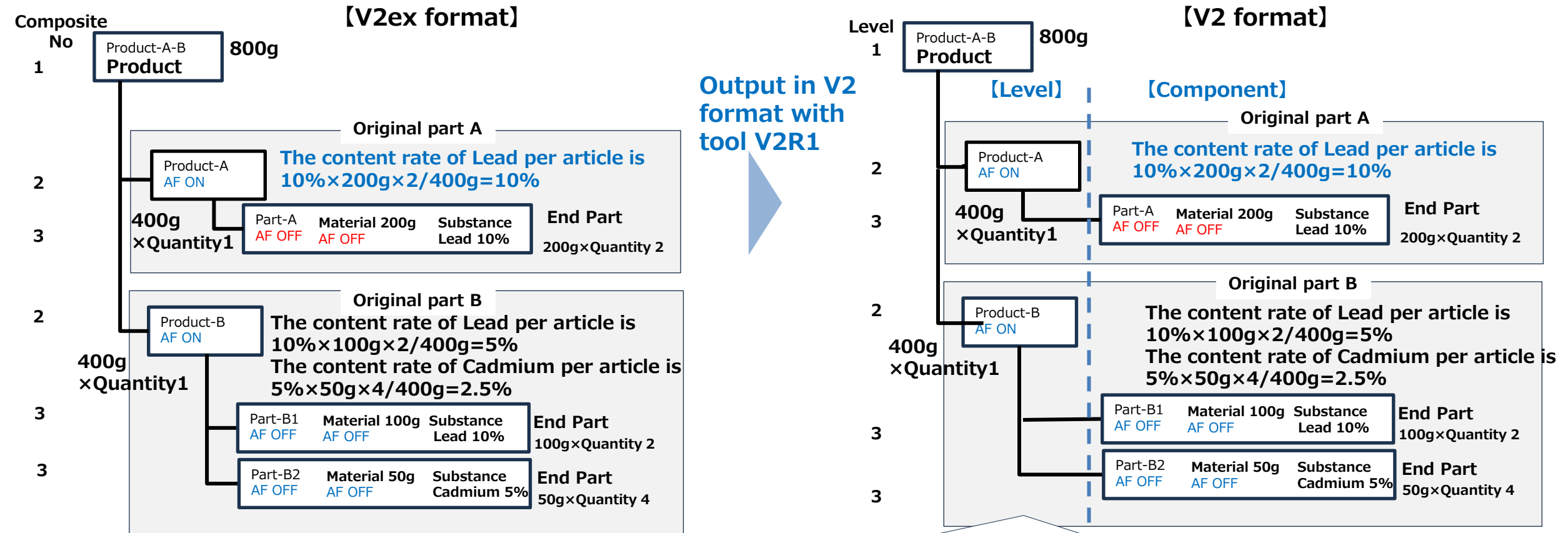
SCIP										
Enlarge or Reduce: Ctrl+scroll										
	Product name	Level name	Row	Number	Primary Article Identifier	Article Name	Material name	Substance name	Maximum content rate per materials(%)	Content rate (%) in an article
1	Product-A-B				p-AB01	Product-A-B				
2		Product-A	1	1	p-A01	Product-A	Steels/cast s...	Lead	10	10
3		Product-A/Product-B	2	1	p-B01	Product-B	Steels/cast s...	Lead	10	5
4			3				Steels/cast s...	Cadmium; C...	5	2.5

※ Tool V2R1 does not have the V2 format expression shown in the diagram above. It cannot be read by previous versions of the V2 tool. This is an assumed screen to explain that the output data structure is in V2 format. This becomes apparent when this V2 format data is read by V2R1 or by an individual company's system.

By outputting data in V2 format, the "Content rate in an article" changes from 5% to 10%

5. Output of V2 format data (when the content rate per molded article does not change)

- Even if the Article Flag (shown as AF in the diagram) has been changed to a position above the end part, in a hierarchical structure like the one on the left (where there is no original part structure further down within the original part), the “content rate in article” will not change, as shown in the diagram on the right, even when output in V2 format.



* Tool V2R1 does not have the V2 format expression shown in the above figure. It cannot be read even with previous V2 versions of the tool. This diagram explains that the output data structure is in V2 format. This will only become apparent when this V2 format data is read into V2R1 or into an individual company's system.

5-1. V2R1 screen (V2ex format)

[V2ex format]

Composition																	
	Component								Material						Substance		
	Composite No.	Component No.	Component name	Article	Quantity	Mass	Unit	Usage	Classification symbol	Name	Article	Mass	Unit	Substance	CAS No.	content rate per materials	
		Add component		Recalculation		Recalculation		Select material	Add material					Select	Add substance		
		Delete component						Quote CI	Delete material						Delete substance		
	*	*	*		*			*	*			*	*				
1	1	p-AB01	Product-A-B	on	▼	800	g	▼				▼	▼				
2	2	Parts00001	Product-A	on	▼	1	400	g	▼			▼	▼				
3	3	Parts00002	Part-A		▼	2	200	g	▼	1.base...	R101	Steel...	▼	200	g	▼	
4	2	Parts00003	Product-B	on	▼	1	400	g	▼				▼				
5	3	Parts00004	Part-B1		▼	2	100	g	▼	1.base...	R101	Steel...	▼	100	g	▼	
6	3	Parts00005	Part-B2		▼	4	50	g	▼	1.base...	R101	Steel...	▼	50	g	▼	

SCIP Enlarge or Reduce: Ctrl+scroll										
	Product name	Component no	Component name	Number	Row	Primary Article Identifier	Article Name	Substance name	Maximum content rate per materials(%)	Content rate (%) in an article
1	Product-A-B					p-AB01	Product-A-B			
2		Parts00001	Product-A	1	3	p-A01	Product-A	Lead; Lead...	10	10
3		Parts00003	Product-B	1	5	p-B01	Product-B	Lead; Lead...	10	5
4					6			Cadmium; ...	5	2.5

5-2. V2 (assumed) screen (when the content rate in the article does not change)

[V2 format]

Composition																		
	Level		Component					Material						Substance				
	Name	Quantity	Name	Article	Quantity	Mass	Unit	Usage	cation symbol	Name	Article	Mass	Unit	Substance	CAS No.	content rate per materials		
	Add		Add			calculati		Select	Add					Select	Add			
			*		*			*	*			*	*					
1	Product-A	1	Part-A	▼	2	200	g	▼	1.ba...	R101	Steel...	▼	200	g	▼	Lead	7439-92-1	10
2	Product-B	1	Part-B1	▼	2	100	g	▼	1.ba...	R101	Steel...	▼	100	g	▼	Lead	7439-92-1	10
3			Part-B2	▼	4	50	g	▼	1.ba...	R101	Steel...	▼	50	g	▼	Cadmium...	7440-43-9	5

SCIP										
Enlarge or Reduce: Ctrl+scroll										
	Product name	Level name	Row	Number	Primary Article Identifier	Article Name	Material name	Substance name	Maximum content rate per materials(%)	Content rate (%) in an article
1	Product-A-B				p-AB01	Product-A-B				
2		Product-A	1	1	p-A01	Product-A	Steels/ca...	Lead	10	10
3		Product-B	2	1	p-B01	Product-B	Steels/ca...	Lead	10	5
4			3				Steels/ca...	Cadmium; C...	5	2.5

※ Tool V2R1 does not have the V2 format expression shown in the diagram above. It cannot be read by previous versions of the V2 tool. This is an assumed screen to explain that the output data structure is in V2 format. This becomes apparent when this V2 format data is read by V2R1 or by an individual company's system.

Even if data is output in V2 format, the "Content rate in an article" does not change

