

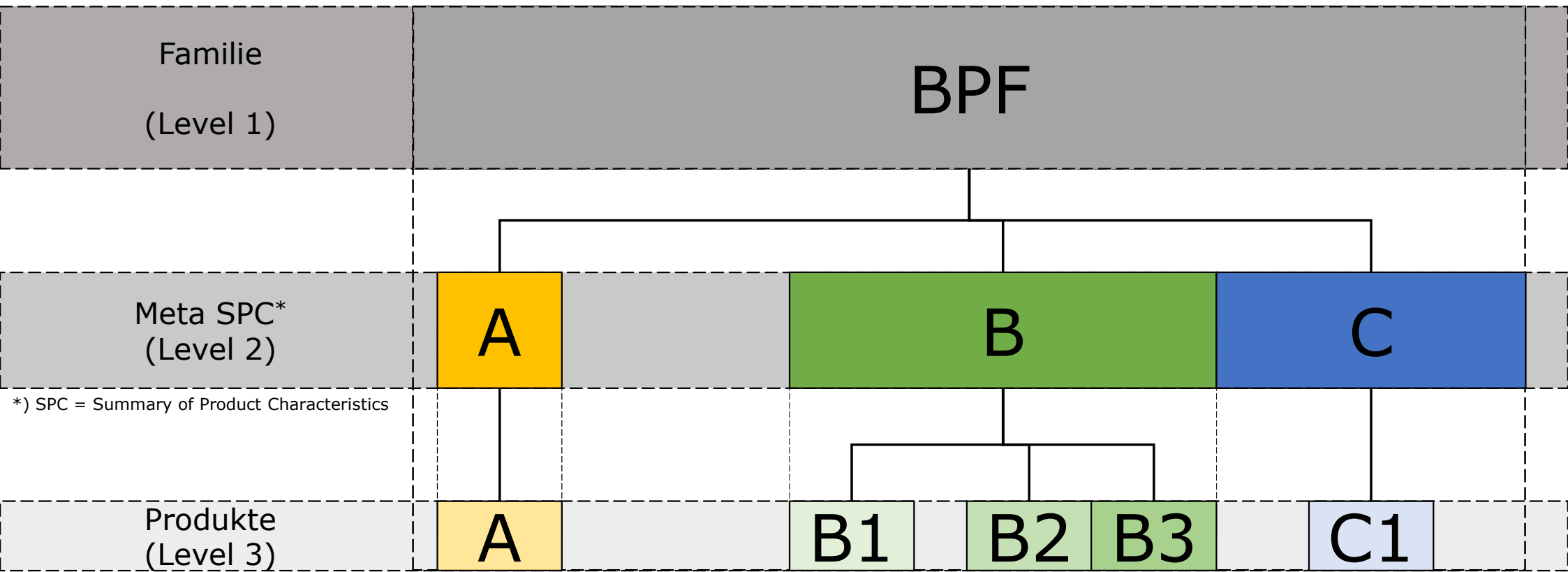


Bundesanstalt für Arbeitsschutz
und Arbeitsmedizin

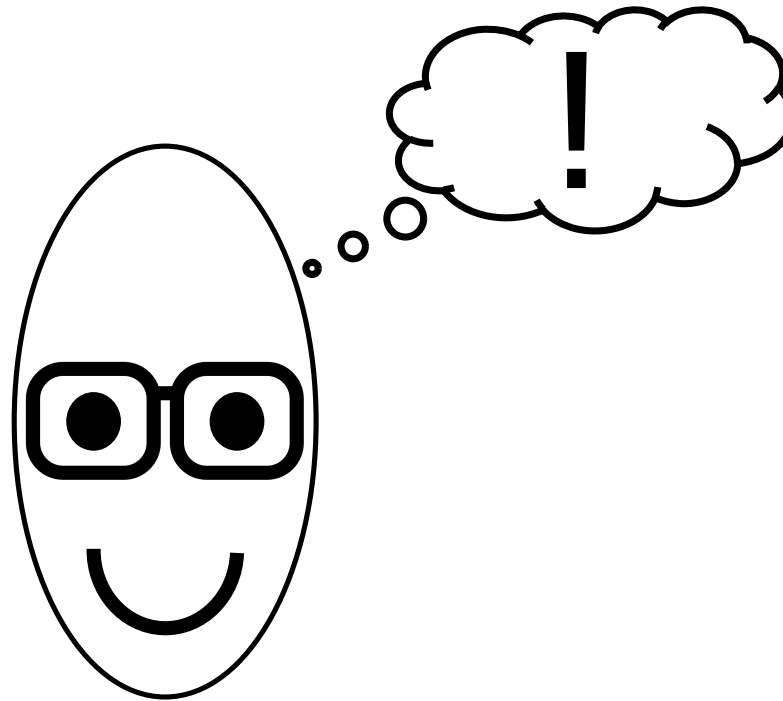
Eine Familie - viele Möglichkeiten: Klarheit, Grenzen, Konsequenzen*

Daniela Wintrich
Bundesstelle für Chemikalien

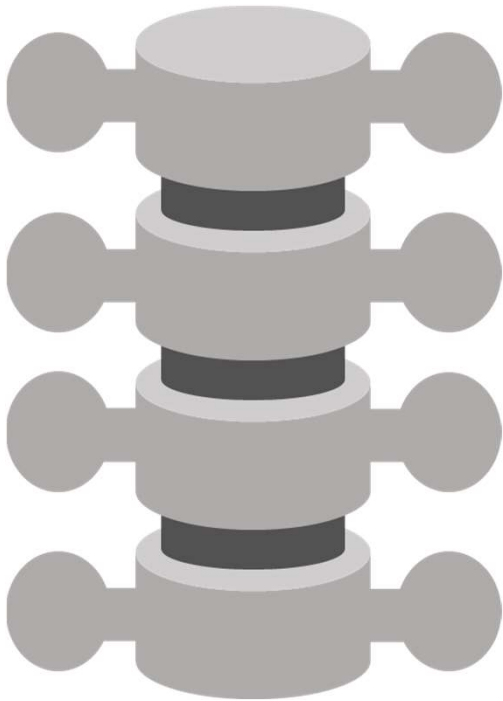
Aufbau von Biozidproduktfamilien (BPF) Basics



Klarheit



Klarheit Backbone



Essenziell zur Formulierung

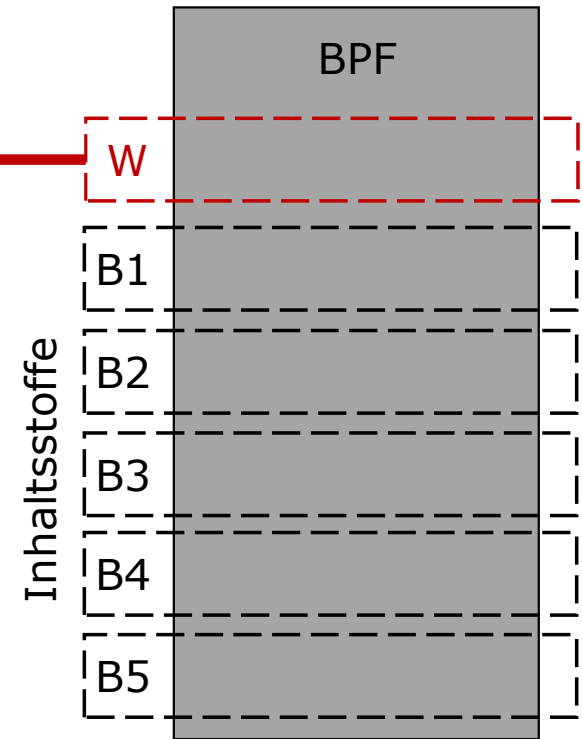


Beispiele:

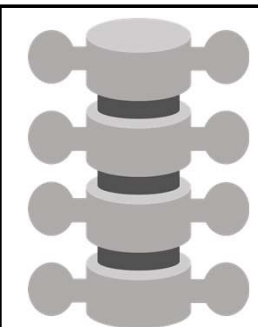
- Komplexbildner
- Bindemittel
- pH-Regulator
- Lösungsmittel
- Duftstoff
- Farbstoff
- Hautpflegemittel
- Korrosionsinhibitor

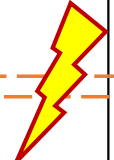


Austauschbar



Klarheit Ähnlichkeit



	BPF	Meta SPC A	Meta SPC B	Meta SPC C	Meta SPC D
		A	B1 B2 B3	C1	
W	✓	✓	✓ ✓ ✓	✓ ✓	✓
B1	✓	✓	✓ ✓ ✓	✓ ✓	✗
B2	✓	✓	✓ ✓ ✓	✓ ✓	✗ 
B3	✓	✓	✓ ✓ ✓	✓ ✗	✓
B4	✓	✓	✓ ✓ ✗	✓ ✓	✓
B5	✓	✗	✗ ✓ ✓	✓ ✓	✓

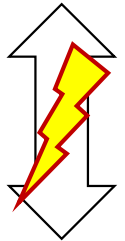
Klarheit

Backbone & Ähnlichkeit - Beispiel

Beispiel:

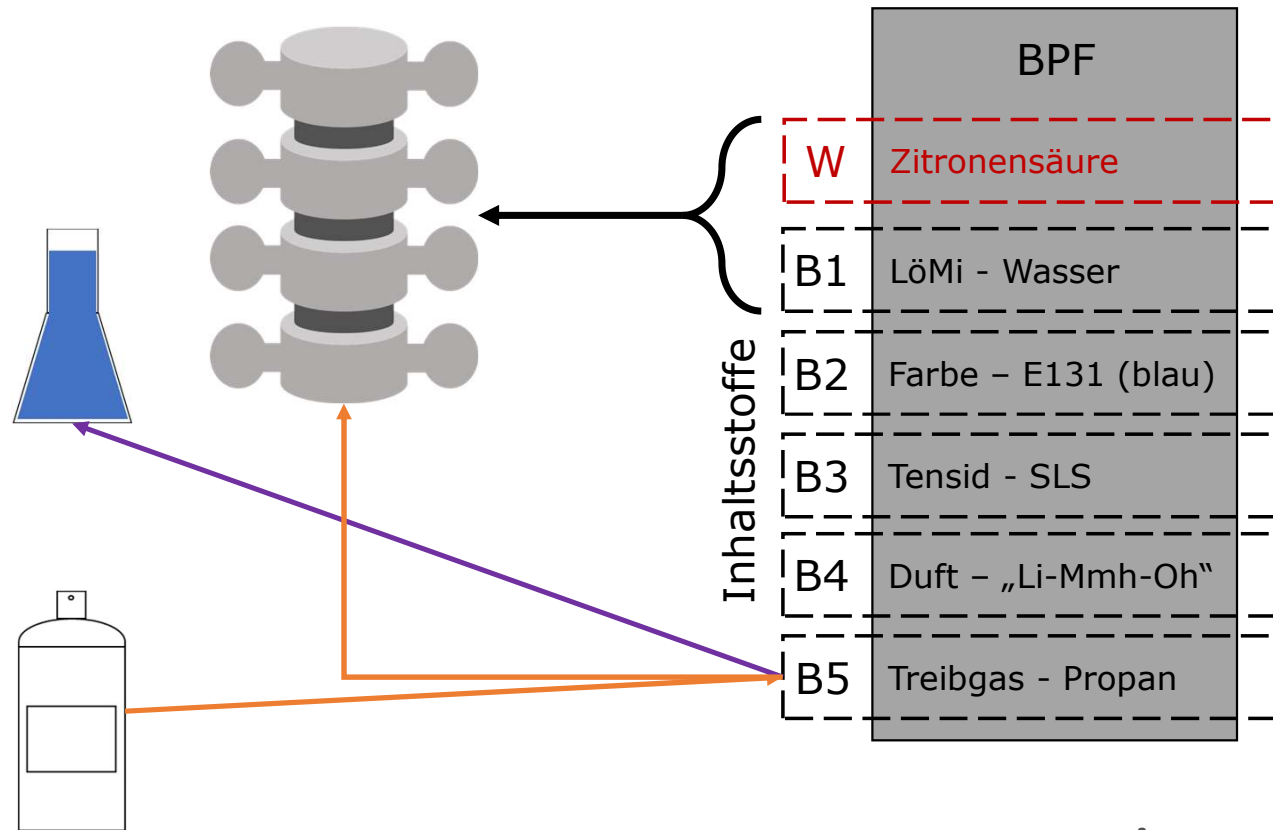
BPF

- Gebrauchsfertige Flüssigkeit (RTU liquid)

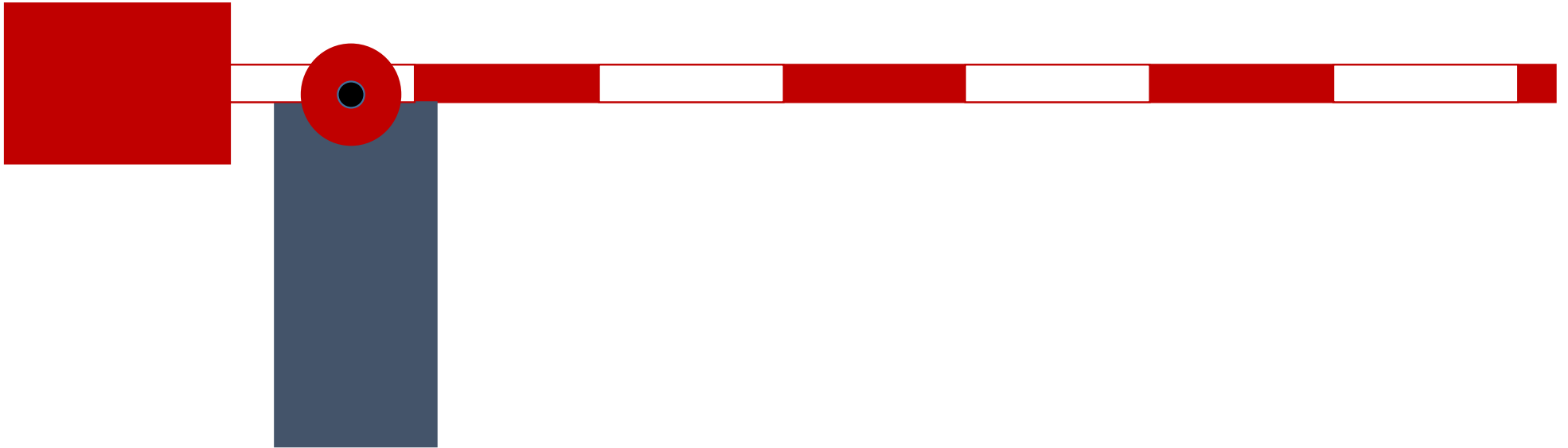


Nicht
ähnlich!!!

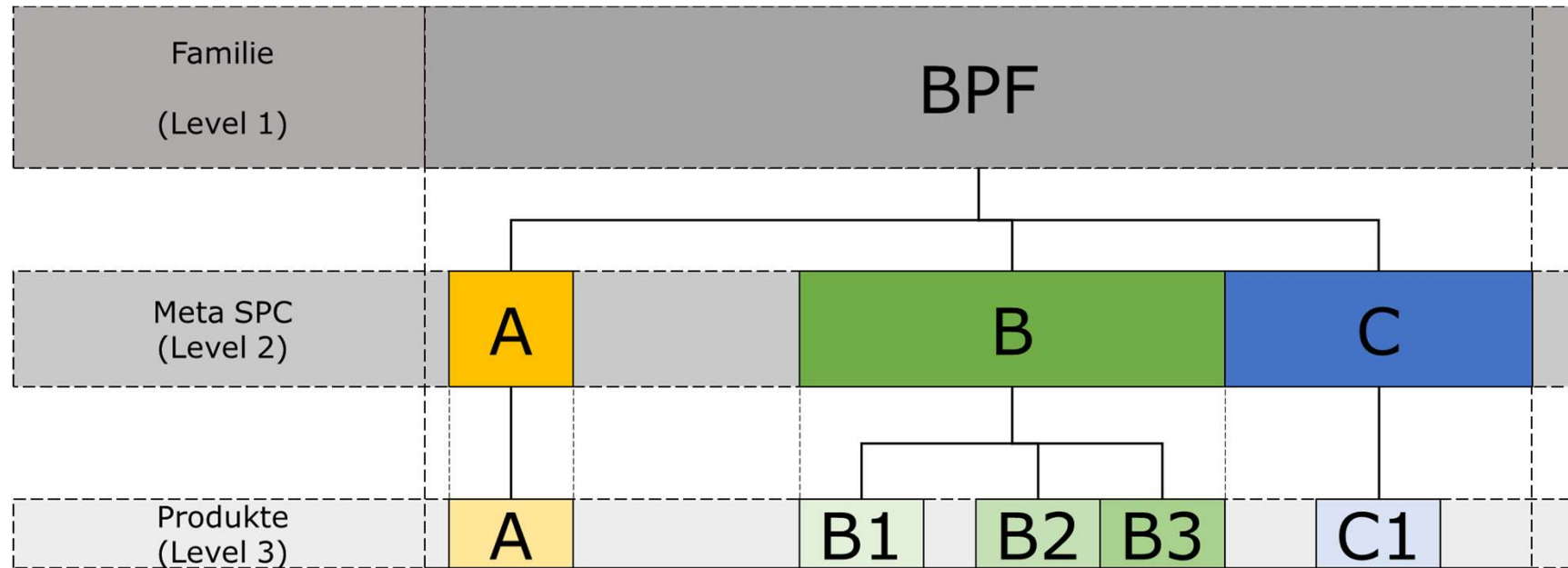
- Aerosol



Grenzen



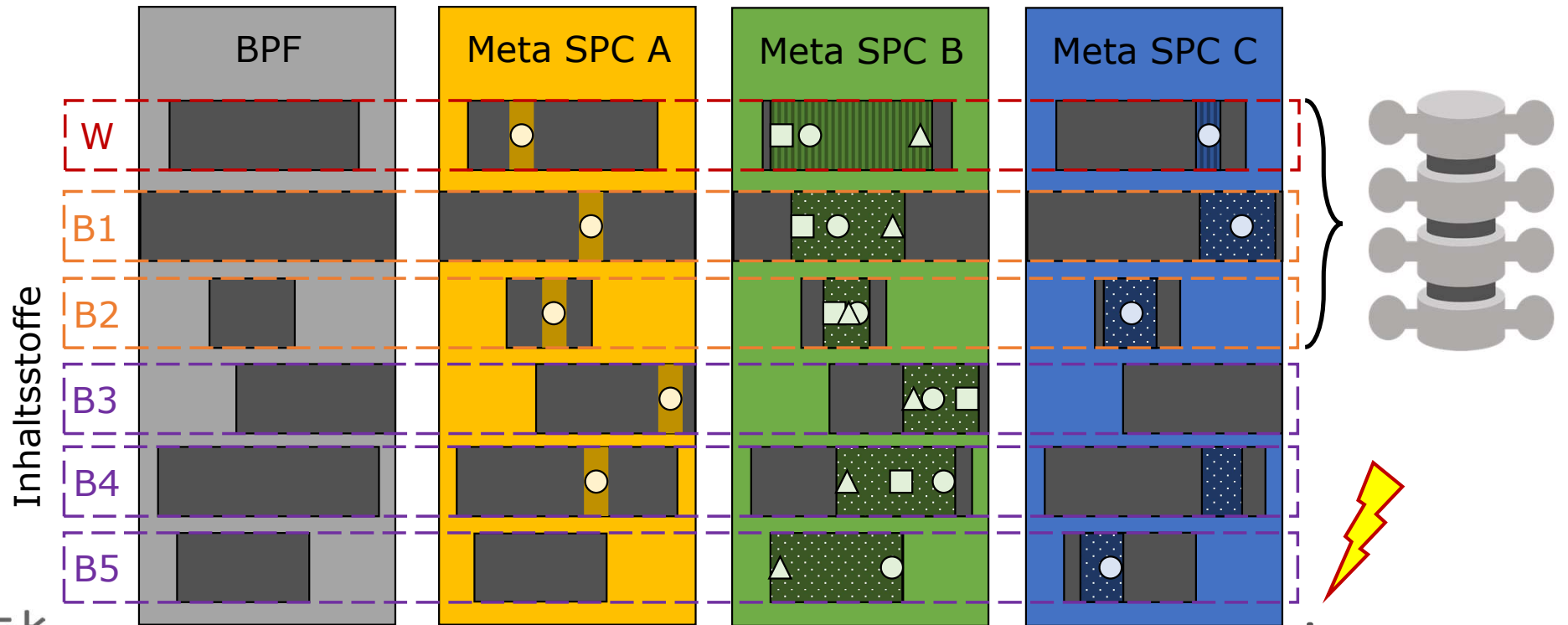
Grenzen Familienstruktur



Grenzen Prüfung der Gehalte

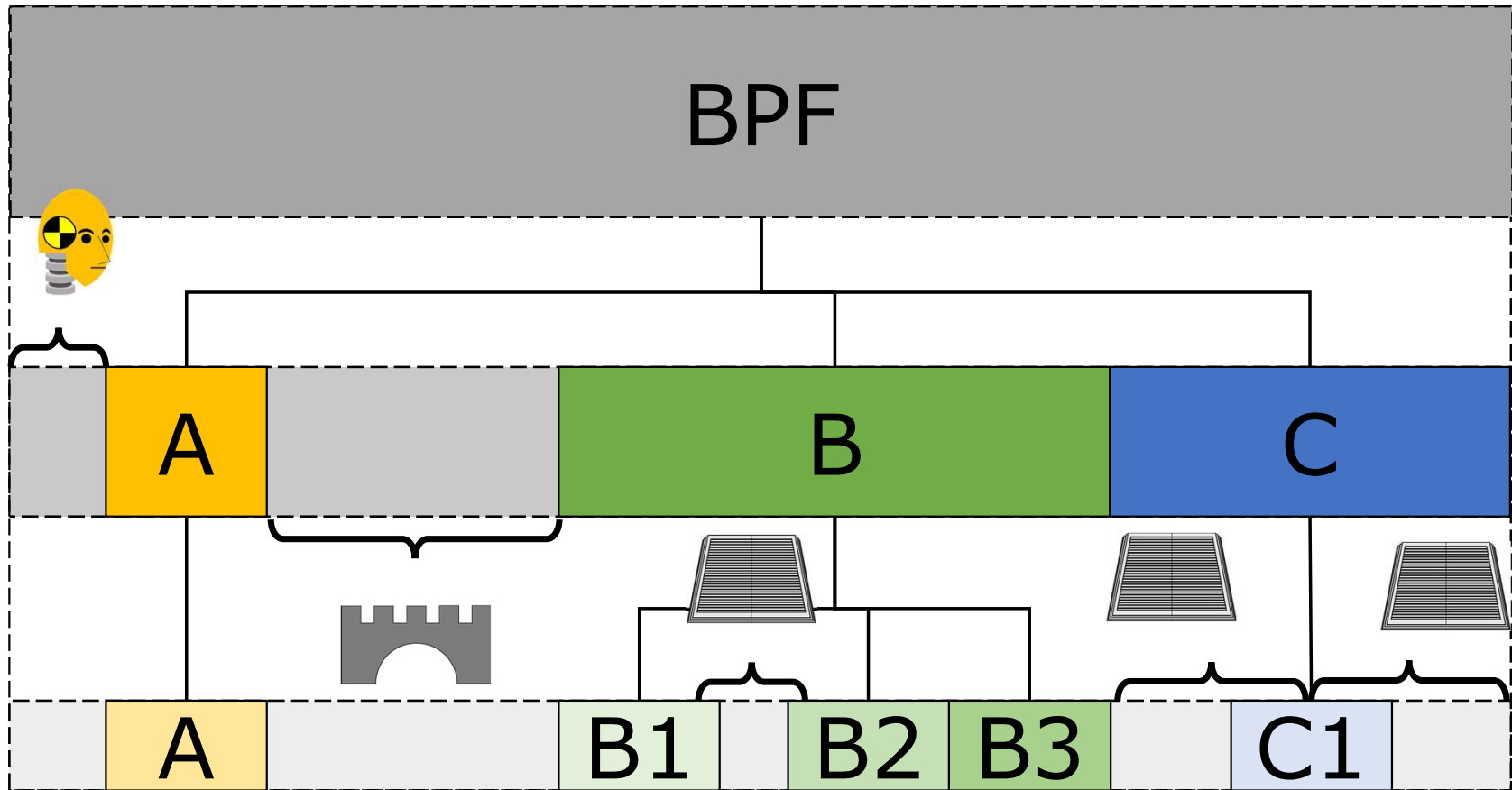
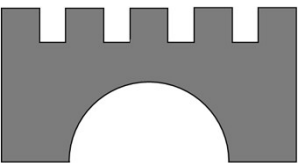
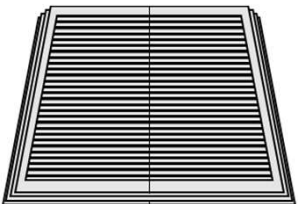
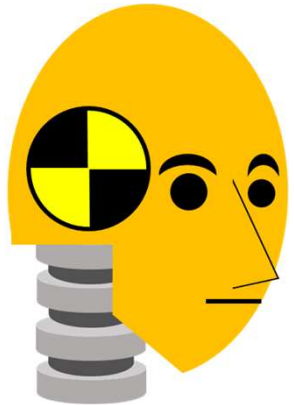
$$\sum_{n=1}^5 I_n + W = 100\%$$

Familie (Level 1)	BPF				
Meta SPC (Level 2)	A	B		C	
Produkte (Level 3)	A	B1	B2	B3	C1

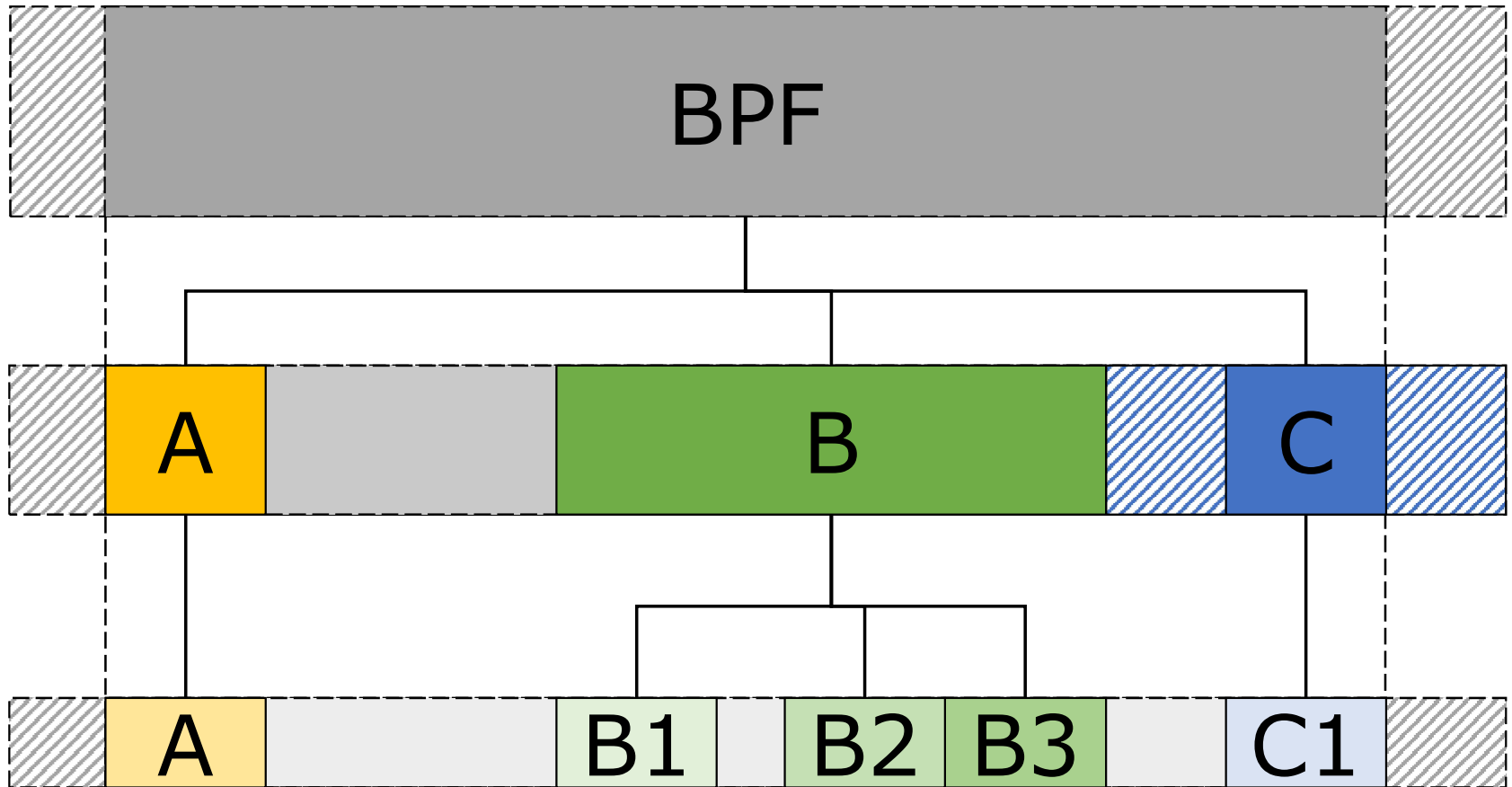


Grenzen

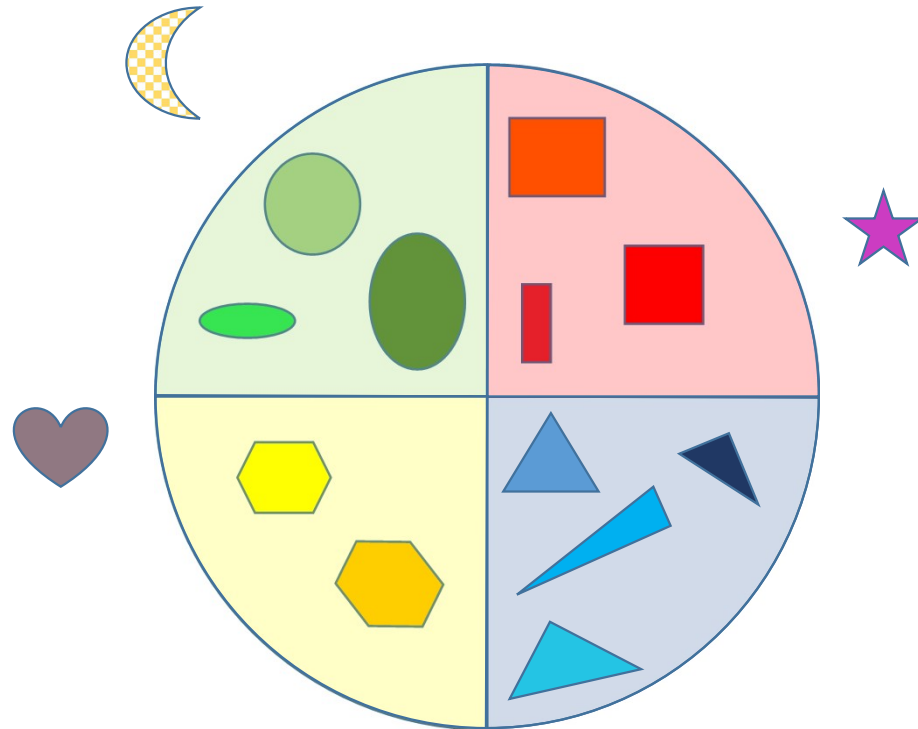
Begründungen und Tests



Grenzen Kluge Wahl



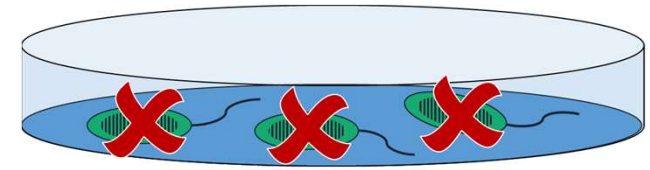
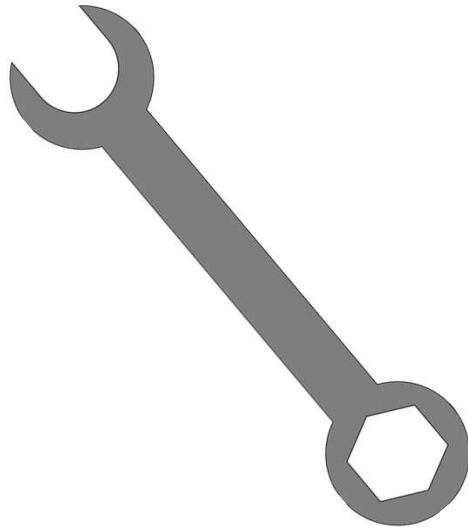
Gruppieren



Gruppieren Voraussetzungen

$$\sum_{n=1}^x$$

I_x



Gruppieren Verknüpfungen

Inhaltsstoffe

	BPF
W	Holzschutz
B1	LöMi
B2	Komplexbildner
B3	Surfactant
B4	Binder
B5	Pigment 1
B6	Pigment 2
B7	Pigment 3
B8	Pigment 4

	BPF	&	oder				&/oder			
B5	Pigment 1	✓	✓	✗	✗	✗	✓	✗	✗	✓
B6	Pigment 2	✓	✗	✓	✗	✗	✗	✓	✓	✓
B7	Pigment 3	✓	✗	✗	✓	✗	✓	✗	✓	✗
B8	Pigment 4	✓	✗	✗	✗	✓	✗	✗	✗	✓

Und – Oder – Und/Oder

Gruppieren Beispiel

	Level 2 Meta SPC		Level 3 Produkte										
	min(%)	max(%)	1	2	3	4	5	6	7	8	9	10	
Pigmente	0,75	9,75											
Pigment 1	0,00	2,00			0,10		1,00	2,00			1,00	0,50	
Pigment 2	0,00	0,75	0,50	0,50	0,45	0,50		0,75	0,75		0,20	0,50	
Pigment 3	0,00	8,70	8,00	8,00	8,70	8,00	8,00	3,00			8,50	4,00	
Pigment 4	0,00	4,50	0,50							4,50	0,05	0,50	

Ohne Gruppieren:
Min = 0,00 %
Max = 15,95 %

Oder

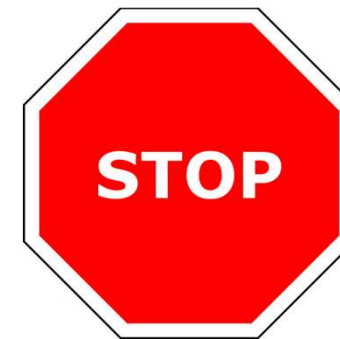
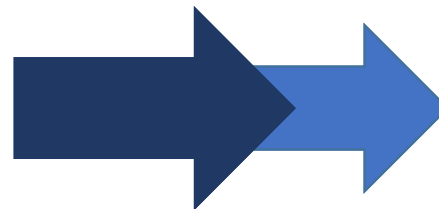
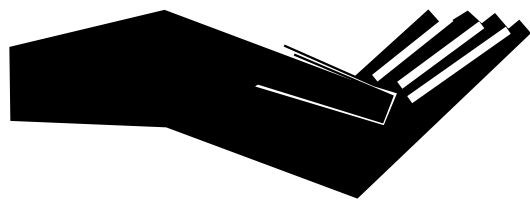
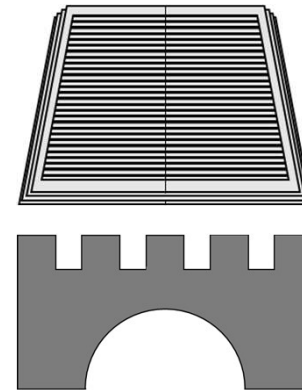
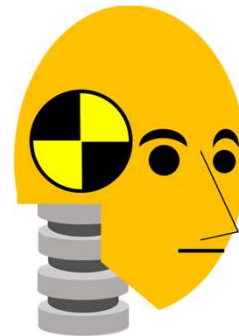
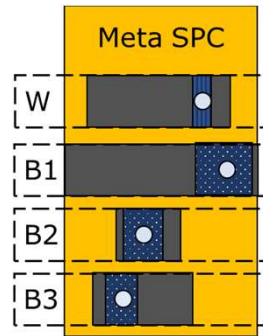
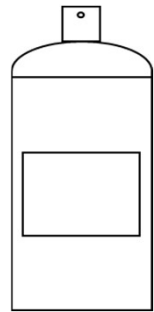
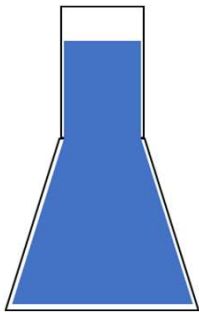
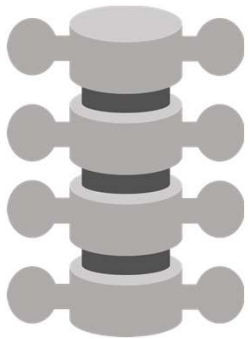
Und

Und/oder

Konsequenzen

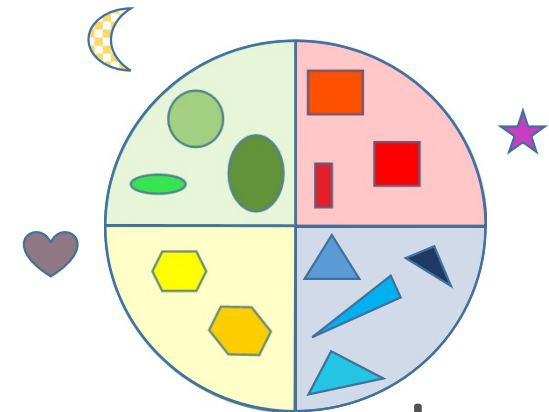
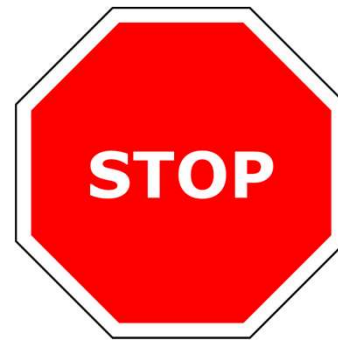
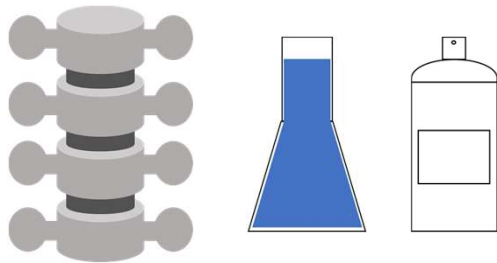
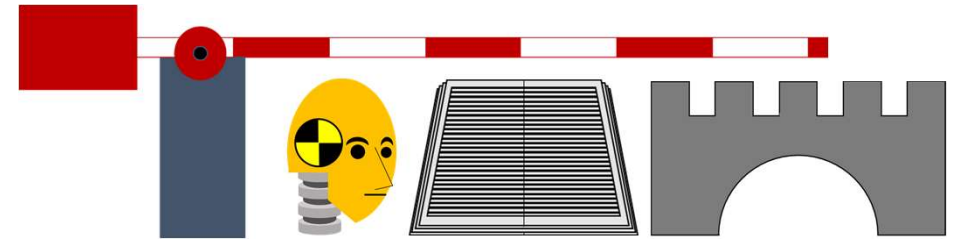
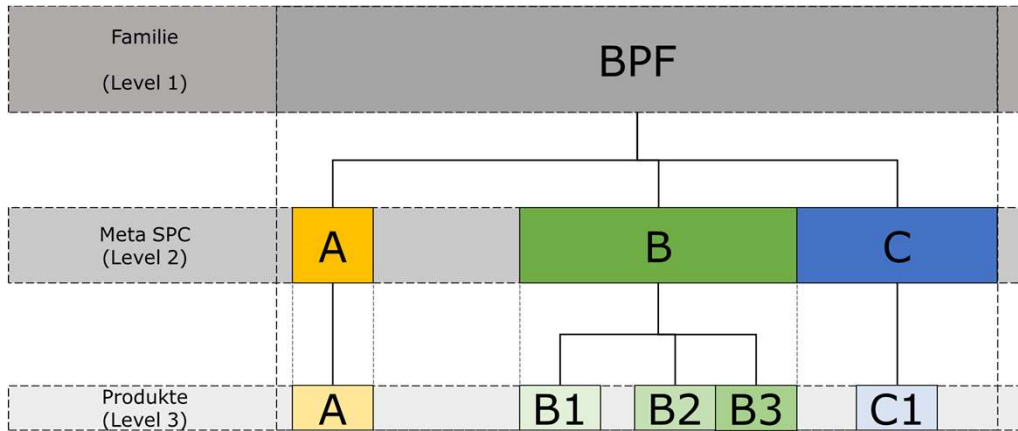


Konsequenzen Nachfordern vs. Ablehnen



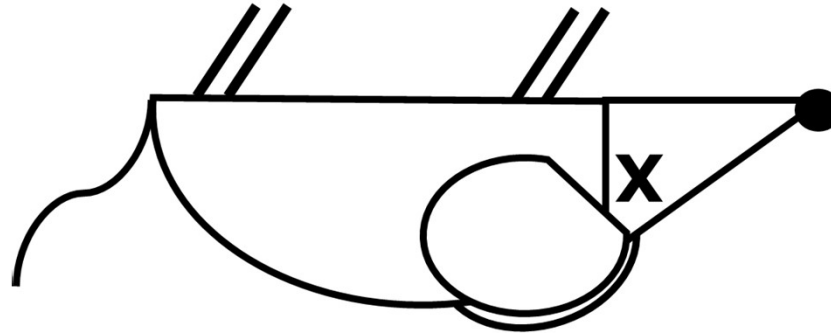
Zusammenfassung

Klarheit, Grenzen, **Konsequenzen**





Zeit für Ihre Fragen



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Literatur

CA Dokument zu Biozidproduktfamilien:

CA-July19-Doc4.2

https://circabc.europa.eu/d/d/versionStore/version2Store/d387e95a-d5b5-48a7-ad1a-1c9902602a8e/CA-July19-Doc.4.2-Final%20-%20Guidance%20note%20on%20BPF%20concept_rev1.docx