



TIP OF  
THE  
MONTH



## Food Allergen Properties

### Food Allergens

Formpak provides flexible options for declaring Food Allergens depending on your regulatory and documentation requirements.

### Food Allergen Declaration

The standard document Food Allergen Declaration summarises allergens present in your Composition, in a single table. The document is populated using the entry list FOODAGNINGDETAILS, which is based on the Property FOODAGN. This approach can be used where allergens and their concentrations are required.

### Avoiding Duplicates

Whilst you can apply FOODAGN at the physical level of a Raw Material, if you have more than one Item in your Composition containing the same allergen, then that allergen may be duplicated in your document. To avoid this, you can use a non-hazardous food allergen accumulator.

### Creating a Non-Hazardous Food Allergen Accumulator

An accumulator is a Raw Material Item added solely to represent a specific attribute. By not assigning any hazardous Properties, it can be included in a Composition without appearing in a Safety Data Sheet.

Here's an example:

Navigate to 'Add a New Raw Material' and name your Item after the allergen (e.g. Sulphites). Ensure that Use in Complex Raw Materials is set to Yes. (Item Class assignment may be used to control unauthorised use.) Within Properties, apply FOODAGN and set to Yes. (Do not apply any hazards to the Item.)

Key Details	Identification	Certification	Classification
Code	IZZ-R010-sulphites	Alternative Code	
Name	Sulphites		
Short Name			
Description			
Comment			
Active	Active		
Availability		"Availability" determined by Availability Property	
Item Class	Regulatory Raw Material		
Item Uses	Flavour	Item Group	---None---
Is Solvent	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Use In Complex Raw Materials	<input checked="" type="radio"/> Yes <input type="radio"/> No		
State	Liquid	Unit of Measure	kg
Print Alternative Item			
Current Cost Price		EUR	Price Date
Preserve Within Subformulation	<input type="radio"/> Yes <input checked="" type="radio"/> No		
Has Composition	<input type="radio"/> Yes <input checked="" type="radio"/> No		

## Using Your Accumulator

Add the accumulator Item to Raw Material Compositions at the appropriate level to represent the quantity of the allergen present. Where the Item appears more than once, in the Formulation. Formpak will automatically accumulate the values to give an overall total in your Formulation.

**Properties**  
Mode: Edit Mode  
Code: IZZ\_ITEM\_049  
Availability: 0  
Total Concentration: 100  
Yield: 100 %  
Total Price: 0.4355 EUR(Default)  
Components Count: 3  
☒ Adjust all components ☐ Adjust selected components

**Composition Properties**  
SulphitesContent: = 555 ppm  
FOODAGNINGDETAILS: 1 entries

Seq	Code	Name	Concentration	(?)	CAS Number	SulphitesConte
1	LemConcPr	Lemon juice concentrate (p	10			= 1800 ppm
2	IZZ-ING-001	Orange juice 6x concentrat	25			= 1500 ppm
3	ER-000292	Water	65		7732-18-5	does not have

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chemicalName	code	casNumbers	ecNumbers	concentration
Sulphites	IZZ-R010-sulphites			0.0555

Close

## Creating Your Own Property Sets

Declaring food allergens in your custom document? If your requirement is to report only the presence of allergens, (not the concentration), a custom Property set can be created. Here, we'll be adding our Properties to the 'Food Allergens' Property Group:

Key Attributes		Calculation	
Code	AGNCELERY	Abbreviation	
Name	Celery and products thereof		
Description			
Property Type	Food Information		
Property Group	Food Allergens		
Value Type	Yes/No		
Default Value	<input checked="" type="radio"/> No Choice	<input type="radio"/> No	<input type="radio"/> Yes
Expiry Date	<input checked="" type="radio"/> No	<input type="radio"/> Yes, without default	<input type="radio"/> Yes, with default 1 years
Can Be Estimate	<input type="radio"/> Yes	<input checked="" type="radio"/> No	
Is Reserved	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

This will be a Calculated Property and will identify the allergen as being present anywhere it appears in your Composition.

Key Attributes		Calculation							
Is Calculated	<input type="radio"/> No	<input checked="" type="radio"/> Yes							
Prevent Batch Calculation Update	<input checked="" type="radio"/> No	<input type="radio"/> Yes							
Rule Type	<input checked="" type="radio"/> Standard	<input type="radio"/> Custom							
Calculation Method	Any								
Property Based On	AGNCELERY	Celery and products thereof							
Calculation Source	<input checked="" type="radio"/> Regulatory Composition	<input type="radio"/> Physical Composition	<input type="radio"/> Other Property						
Family		Severity							
General Concentration Limit		Lower Limit							
<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td colspan="3">Rule Script</td> </tr> </tbody> </table>				Code	Name	Value	Rule Script		
Code	Name	Value							
Rule Script									

Example output in a custom document:

EU Allergens	Contains (yes/no)
Celery and products thereof	Yes

## Mini Tip

### Yes/No Properties with conditions

#### Yes/No properties

#### Did you know...?

The humble Yes/No Property can also be set to trigger 'Yes' based on a Property value reaching a General Concentration Limit. Here is an example for Sulphites. We only want Yes to appear when the 'Property Based On' reaches or exceeds a defined value:

The screenshot shows the 'Key Attributes' tab of a software interface. The 'Code' field is 'AGNSO2' and the 'Abbreviation' field is empty. The 'Name' field is 'SO2 and Sulphites present >10mg/kg'. The 'Description' field is empty. The 'Property Type' dropdown is set to 'Food Information'. The 'Property Group' dropdown is set to 'Food Allergens'. The 'Value Type' dropdown is set to 'Yes/No'. The 'Default Value' is set to 'No Choice'. The 'Expiry Date' is set to 'No'. The 'Can Be Estimate' is set to 'No'. The 'Is Reserved' is set to 'No'. The 'Default Value' is set to 'No Choice'. The 'Expiry Date' is set to 'No'. The 'Can Be Estimate' is set to 'No'. The 'Is Reserved' is set to 'No'.

Switch to the Calculation tab and apply a General Concentration Limit value of 0.001 (%), (10 mg/kg).

The screenshot shows the 'Calculation' tab of the same software interface. The 'Is Calculated' is set to 'Yes'. The 'Prevent Batch Calculation Update' is set to 'No'. The 'Rule Type' is set to 'Standard'. The 'Calculation Method' is set to 'Any'. The 'Property Based On' is set to 'SulphitesContent'. The 'Calculation Source' is set to 'Regulatory Composition'. The 'Family' dropdown is set to 'Sulphites Content'. The 'General Concentration Limit' is set to '0.001'. The 'Severity' field is empty. The 'Lower Limit' field is empty. The 'Rule Script' field is empty.

Now, when the Property value of SulphitesContent reaches or exceeds this value, the Property value will calculate to 'Yes'.