

Product Compositions - (to be updated)

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Standard Composition

It lists all the substances that are included in the finest level of composition of the Specification.

The components are **exclusively PURE_SUB** (pure substances).

This type of composition is worldwide and is **mandatory** for SDS generation.

Exact Composition

The purpose of this level of composition is to express the composition based on products, raw materials or intermediates. Components of this level of composition can be **Pure_Sub OR Prod_Com**.

It can be manually maintained or copied from the the class BOMBOS result (you can do so by using the rule ZCP_BOMBOS Copy of BOMBOS output -> Exact Compo but only if you have first indicated that there is no chemical reaction in the class Chemical Reaction, otherwise you can use copy /paste).

Advantages:

- keep track of some specifically regulated raw materials, such as biocides
- express the composition of a finished product using it(s) intermediate(s) simplifies the update process in case the composition of the intermediates change
- keep track of the raw materials in case their composition is not fully defined. This allows particularly to maintain the inventory status at the raw material level

BOMBOS resultIt is the first level of a hierarchic composition and is completed after the BOM/BOS interface process (CG37 transaction: Bill of Material Transfer).

The BOM/BOS interface calculates the composition of a specification (BOS : Bill Of Substances) from the attached nomenclature (the recipe used to produce the material) of the material (BOM: Bill Of Materials) . It is useful for the products manufactured by Solvay without chemical reaction.

How to populate the BOM/BOS class in SAP?

This is done using transaction CG37.

1. Search for manufacturing recipes by entering the material code in the selection screen. You may also restrict your results to 1 plant. Make sure you use the material code for the **bulk** .
2. In the "worklist", you will then find 1 or several manufacturing recipes (or "BOM"). They are the recipes of the product, expressed in raw materials and intermediates, as used by the plant. Select 1 recipe by clicking on its header
3. Go to edit mode
4. Click on the "Execute" button
5. Save
6. You can control the result from the CG02 screen, in "BOM BOW result"

Note: at the moment, because WP1 is not fully integrated with the logistics system PF1, the BOM/BOS result can only be automatically populated from products that have their BOMs in WP1.

There is an automatic email notification functionality associated with this process where a user can subscribe to any BOM changes for 1 or several plants.

Contact the EHS administrators or SBS IS for more information.

Maximalist Composition

It is used for products without chemical reaction, for the business Engineering Plastics only, where products are sold not for their composition but for their application performances (color, impact, etc.). These properties justify the existence of a Commercial Product without reference to its composition.

One commercial product can have several compositions based on the Raw Material used in the different plants creation of a Maximalist composition that will "wrap" all the Bill of Materials (BOM) / Raw materials

Legal Composition

This composition is intended for legal purposes and enables to list all ingredients in case the composition is based on a regulatory definition and differs from the standard composition. An example might be a composition according to the EU REACH directive 1907/2006/EC.

This type of composition is dedicated to one or several zones and is optional.

This composition replaces the Standard Composition in the zone(s) where it applies. It then follows the same maintenance rule :
- The components are **exclusively PURE_SUB** (pure substances).
- It is mandatory to maintain an **exact values**, which can be the limit or the average of a range, depending on the BU's decision

Also, like the Standard Composition, it never appears as such on the SDS and can then contain confidential elements.

Rule COMPO

This rule calculates the standard composition based on the Exact Composition based on Products.
The component types are determined based on the following rules:

- If an ingredient always appears with the same component type, this component type remains
- If an ingredient appears under multiple component types, the rule will output
 - COMPONENT if there is at least 1 intentional component type
 - Z_UNDEF if they are all non intentional

The ranges included in the composition of the products ingredients, if any, are used to determine ranges at the finished product level.

The rule breaks down the compositions of the ingredients PROD_COM into PURE_SUB and then aggregates all the PURE_SUB found and sums up their weighted percentage. The weighted percentage ("WP") is determined by multiplying the concentration of the ingredient PROD_COM with the concentration of the PURE_SUB within the composition of the ingredient PROD_COM.

Let's take the example of a dummy product which has the following ECP:

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The rule calculates as such:

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The calculation can be done based on % and / or PPM.

The exception values included in the composition of the PRCO ingredients, if any, are brought over the composition of the finished product.

Case of a product used as an ingredient in the ECP of a product but having itself an ECP with PROD_COMs:

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With the new version of the rule (updated in May 2015), in the case represented above, when running the rule COMP on the finished product, it will consider the Standard Composition of the PRCO A because it contains at least 1 PRCO in its Exact Compo Based on Products.



This avoids seeing PRCOs in the Standard Composition calculated by the rule.



[PRAPS homepage](#)

Workflow history

This view shows the 5 most recent entries. The complete workflow log is available from the 'Document Activity' menu item.

Apr 14, 2025	Actor	Type	Activity	Version
	 ROBIN, Sabrina	Edit	updated the page at 2:28 pm	
Apr 09, 2024				
	 Vidhyadharan-ext, Vaishna	Edit	created the page at 2:25 pm	