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HOW TO DECLARE WEIGHTLESS PARTS

Description: No part is truly "weightless". However, you man need to declare for a part with a value that can change depending on the size of the part.

Parts can have:

- A fixed chemical composition, but variable weight, and/or
- A variable chemical composition, but a fixed weight, and/or
- A variable chemical composition and variable weight

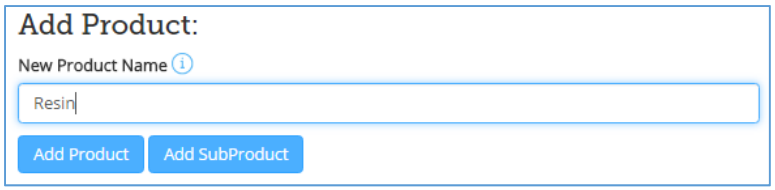
"Size" is also a term that may have multiple meanings depending on the Product. For example:

- A **piece of wire** will have the same materials, Bill of Materials, and chemical composition, but the length is variable and will dictate the size
- **Adhesive** will have the same chemical composition, but the volume used will dictate the size

GENERATING AN FMD FOR A PART WITH VARIABLE WEIGHT

Using "Resin" as an example of a "weightless part", enter the "Resin" as the Product in the declaration and then follow the steps below to enter the Product Details:

1. Enter "Resin" as the **New Product Name**:



2. Click to expand the **Product Details** section for "Resin"

   The **Item Name** will be prefilled.

3. Enter a **Mass** of "1."

4. Select the **Unit of Measure** in **mg** or **g** (defining to the smallest standard unit).

5. Enter a **Number of Instances** of "1."

6. Enter the **Instances Unit Type** as "Each."

   This will change depending on the Product or Sub-Product. For example, wire or cable will likely have an

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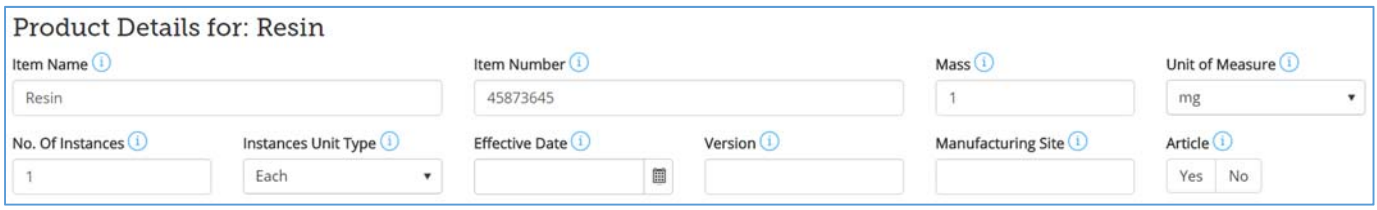
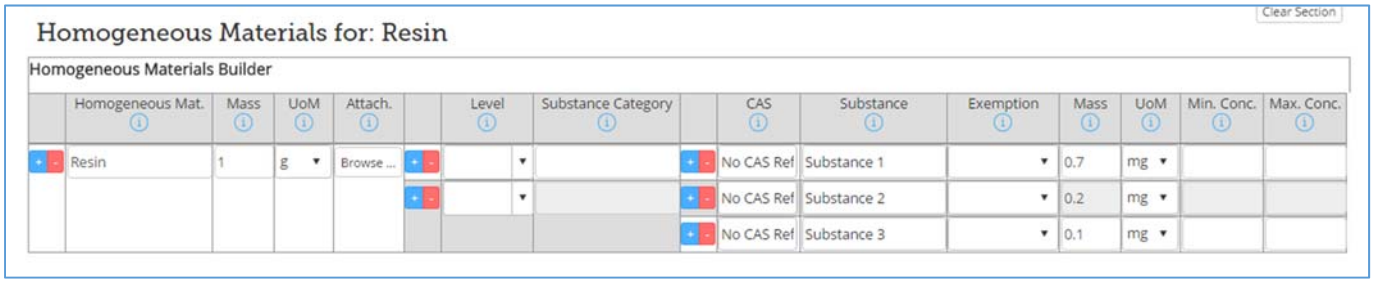
Instances Unit Type of "Meter."



7. In the **Homogeneous Materials** table, enter the substance information for "Resin":



When calculating the amount of "Resin" used in the overall Product, use the substance information (% of each substance) and multiply it by the quantity of "Resin" found in the Bill of Materials for that Product.

Grams of Substance = g of Product x % of Substance/100
For example, 1 x 70/100 = 0.7 g

8. Complete the remaining declaration and generate the XML.