TAP FEED Inventory Add-On Release Notes
## *April 3, 2023*

Introduction:

- With the new TAP FEED Inventory Add-On you can manage and control your feeding component inventory levels. The add-on gives you a clear and accurate overview of your inventory levels with the option to set alert levels that trigger [early] warnings to avoid running out of inventory. It also gives you a clear overview of the projected requirements over a selected period.
- The Inventory Add-On also has an "Order Ingredients" feature that allows you to generate purchase orders for your suppliers. Products can also be received and added to the inventory.
- Inventory levels will be updated based on feeding results from the feed mixer. Depending on used hardware/data transfer type, delays in updating inventory levels may occur (e.g., if you use USB data transfer).

Compatibility:

- The inventory add-on is compatible with TAP FEED Lite and TAP FEED Pro and can be purchased through the marketplace or via a distributor/dealer
- When activated, the inventory area and sub areas will become available
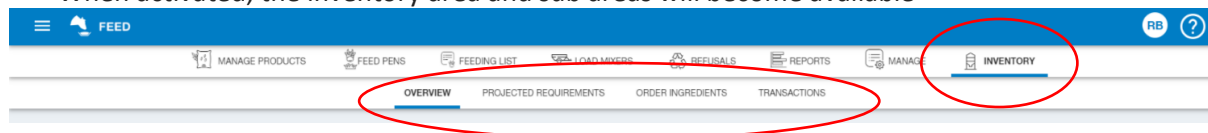
Also, an ingredient tab will show in [MANAGE PRODUCTS] [INGREDIENTS]. This tab allows you to make inventory settings per ingredient.
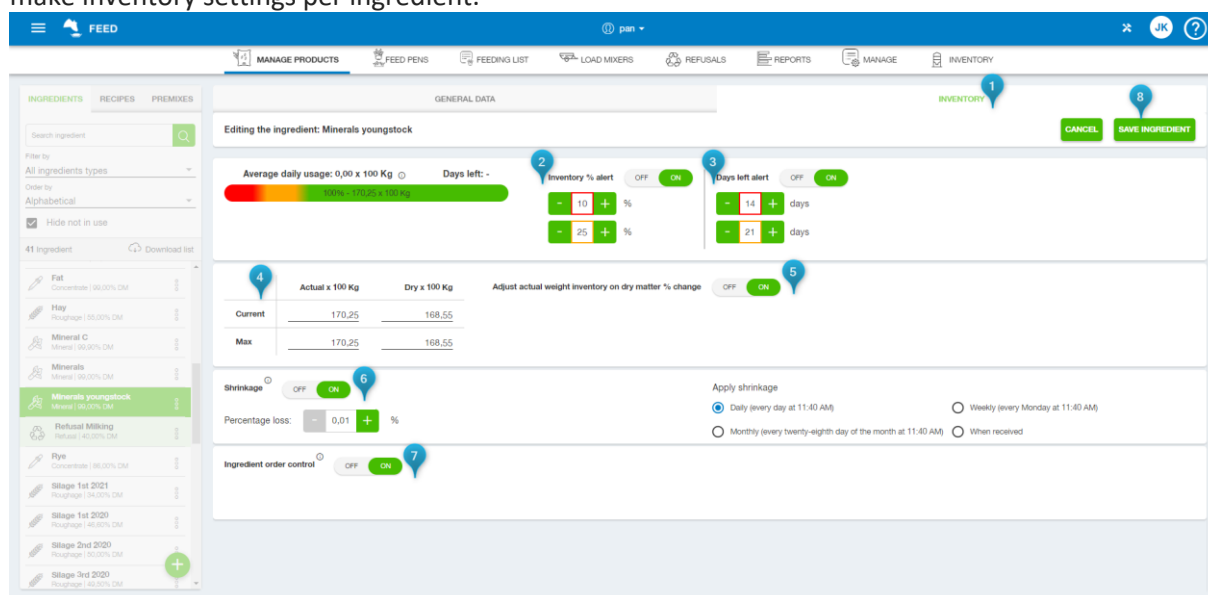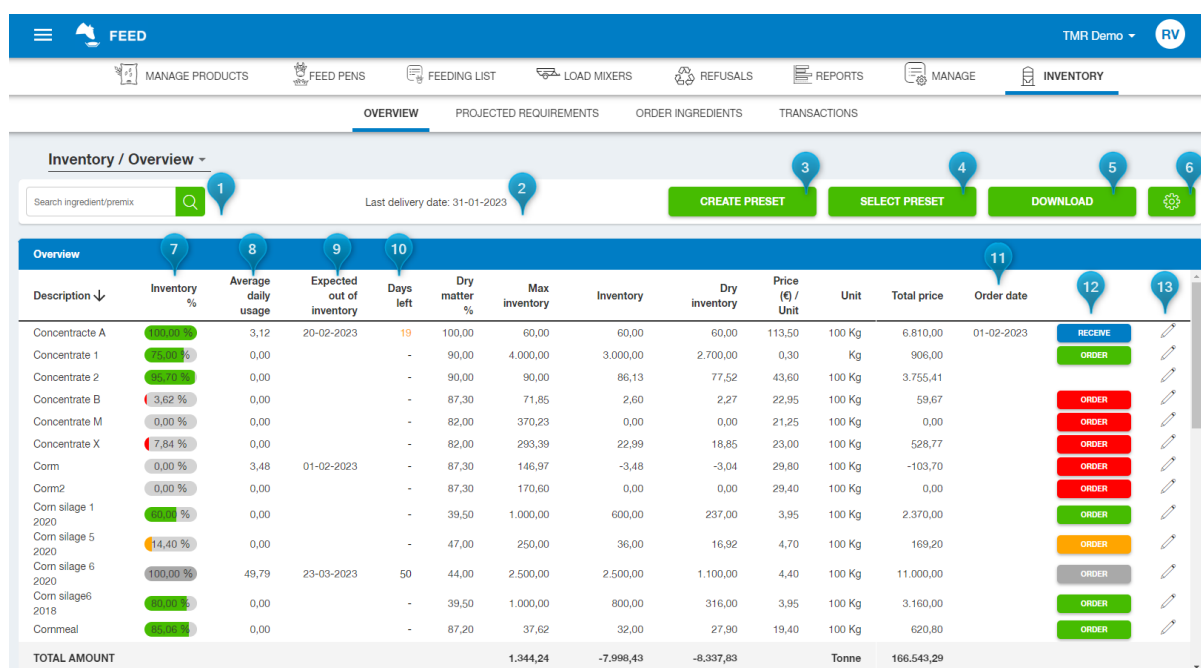

1. Ingredient inventory tab
2. Set alerts based on % of inventory left. When activated it is possible to set an early warning alert (Orange) and a critical alert (Red). If alerts are set, inventory related buttons in the [INVENTORY] [OVERVIEW] and [INVENTORY] [PROJECTED REQUIREMENTS] screen will show in the color of the alert status.
3. Set alerts based on days of inventory left. When activated it is possible to set an early warning alert (Orange) and a critical alert (Red). If alerts are set, inventory related buttons in the [INVENTORY] [OVERVIEW] and [INVENTORY] [PROJECTED REQUIREMENTS] screen will show in the color of the alert status.

4. Make manual adjustments to your inventory levels.
5. If the setting *'Adjust actual weight inventory on dry matter % change'* is set to 'ON' for the ingredient, the option becomes available to enter the dry matter percentage of the received product. (See 'Receive Ingredients')
6. Shrinkage (See 'Shrinkage')
7. With 'Ingredient order control' activated you can generate purchase orders for this ingredient.
8. Save settings

Inventory – Overview:

The [INVENTORY] [OVERVIEW] area enables you to quickly get insight into the inventory status of the different ingredients.

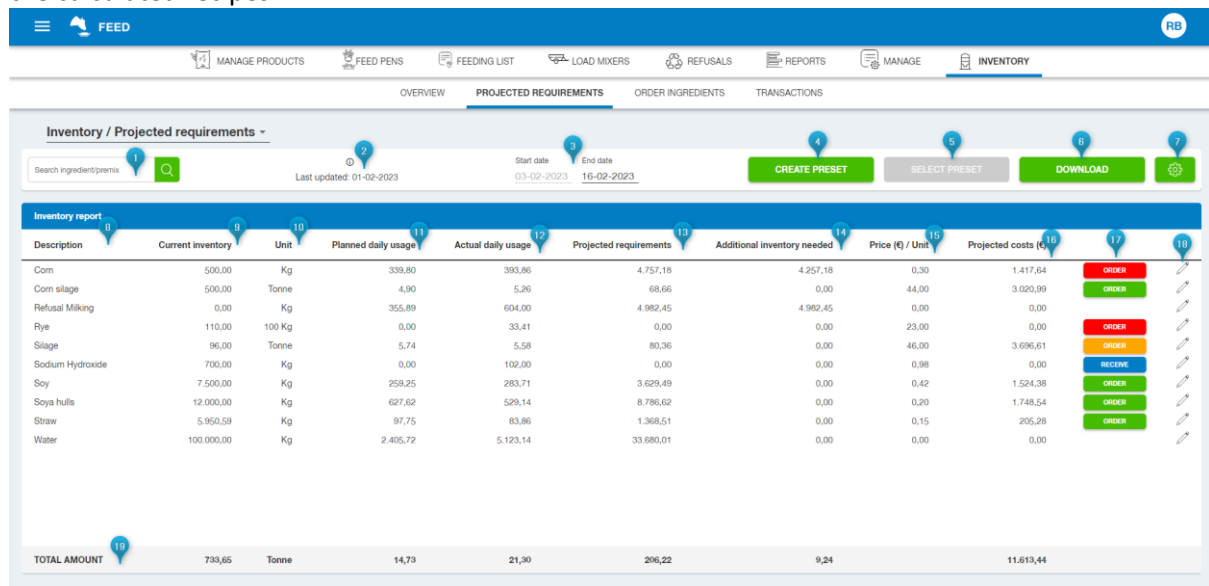| Description ↓	Inventory %	Average daily usage	Expected out of inventory	Days left	Dry matter %	Max inventory	Inventory	Dry inventory	Price (€) / Unit	Unit	Total price	Order date		
Concentracte A	100,00 %	3,12	20-02-2023	19	100,00	60,00	60,00	60,00	113,50	100 Kg	6.810,00	01-02-2023	RECEIVE	
Concentrate 1	75,00 %	0,00		-	90,00	4.000,00	3.000,00	2.700,00	0,30	Kg	906,00		ORDER	
Concentrate 2	95,70 %	0,00		-	90,00	90,00	86,13	77,52	43,60	100 Kg	3.755,41		ORDER	
Concentrate B	3,62 %	0,00		-	87,30	71,85	2,60	2,27	22,95	100 Kg	59,67		ORDER	
Concentrate M	0,00 %	0,00		-	82,00	370,23	0,00	0,00	21,25	100 Kg	0,00		ORDER	
Concentrate X	7,84 %	0,00		-	82,00	293,39	22,99	18,85	23,00	100 Kg	528,77		ORDER	
Corm	0,00 %	3,48	01-02-2023	-	87,30	146,97	-3,48	-3,04	29,80	100 Kg	-103,70		ORDER	
Corm2	0,00 %	0,00		-	87,30	170,60	0,00	0,00	29,40	100 Kg	0,00		ORDER	
Corn silage 1 2020	60,00 %	0,00		-	39,50	1.000,00	600,00	237,00	3,95	100 Kg	2.370,00		ORDER	
Corn silage 5 2020	14,40 %	0,00		-	47,00	250,00	36,00	16,92	4,70	100 Kg	169,20		ORDER	
Corn silage 6 2020	100,00 %	49,79	23-03-2023	50	44,00	2.500,00	2.500,00	1.100,00	4,40	100 Kg	11.000,00		ORDER	
Corn silage6 2018	80,00 %	0,00		-	39,50	1.000,00	800,00	316,00	3,95	100 Kg	3.160,00		ORDER	
Cornmeal	85,06 %	0,00		-	87,20	37,62	32,00	27,90	19,40	100 Kg	620,80		ORDER	
TOTAL AMOUNT						1.344,24	-7.998,43	-8.337,83		Tonne	166.543,29			

9. The search bar can be used to search for specific ingredients by typing the ingredient description
10. The 'last delivery date' shows when the last data from the mixer was processed
11. When you have applied a filter to the overview on for example certain ingredients and you want to apply this filter more often, you can also create a preset
12. Once a preset is created, you can select a preset through this button and edit the preset if needed
13. The Inventory Overview can be downloaded as PDF, XLS or XLSX
14. You can apply filters on ingredients or ingredient types through the settings button. You can also set which columns to show or hide.
15. Based on the maximum inventory entered and the current inventory, the Inventory % is calculated. When you have 'Inventory % alert' active for an ingredient, it will show you the corresponding colours (red, orange or green).
16. Based on the ingredient usage of the last 7 days, the 'Average daily usage' is calculated
17. Based on the current inventory and the current average daily usage, an estimate is made to which date you will run out of inventory

18. Based on the current inventory and the average daily usage, it is calculated how many days can still be fed. If an ingredient has not been used during the last 7 days, the 'days left' cannot be calculated and will be displayed with '-'
When you have 'Days left alert' active for an ingredient, it will show you the corresponding colours (red, orange or green). If the 'Days left alert is not active, the value is shown with a black colour
19. Once an order is entered through 'Order ingredients', the order date is displayed. In case of multiple orders for the same ingredient, the eldest order date will be displayed.
20. When 'order control' is active for an ingredient, an order status button is displayed. When no alerts are set for the ingredient, the 'order button' will remain grey. When there are alerts setup, the button will turn either red, orange or green, depending on the status of the inventory of that ingredient.
The button will change to 'Receive', when the ingredient has already been ordered but not yet received and the colour will turn blue. Using the 'Receive' button will take you to the [MANAGE PRODUCTS] [INGREDIENTS] area of the specific ingredient on tab 'Inventory'. This will show the order that can be received. You are navigated to this area since multiple orders can be ready to receive for the same ingredient and this way you can manage which one to receive.
21. To edit an ingredient, press on the pencil button. You will be navigated to the specific ingredient with the 'Inventory' tab displayed. This is where settings per ingredient can be viewed or changed.
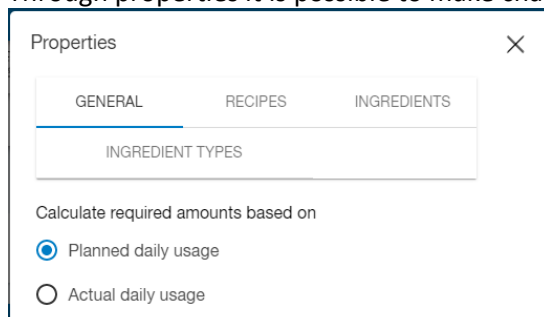
Inventory – Projected requirements:

With [INVENTORY] [PROJECTED REQUIREMENTS] you can work out how much of each ingredient you will need in the selected period based on what you used the last 7 days or what you plan to feed in the calculated recipes.

1. 'Search' allows to do a quick filter based on ingredient description
2. The 'Last updated' is the date that the last feed data was received from the mixer. If data has not been received from mixer, calculated values and current inventory may be incorrect. For accurate results, all feeding data must be processed. If this date is more than 3 days back, an exclamation mark is shown and hoovering over will show info 'Please check if all feeding data is processed.'
3. The report shows how much of each ingredient you will need the coming selected period. The start date is defaulted to today and cannot be changed. The amounts are calculated based on the 'End date', which by default are set to 'today + 14 days'. The end date can be changed, but only to a 'future date.'
4. When you have applied a filter to the overview on for example certain ingredients and you want to apply this filter more often, you can also create a preset
5. Once a preset is created, you can select a preset through this button and edit the preset if needed
6. The Inventory Overview can be downloaded as PDF, XLS or XLSX
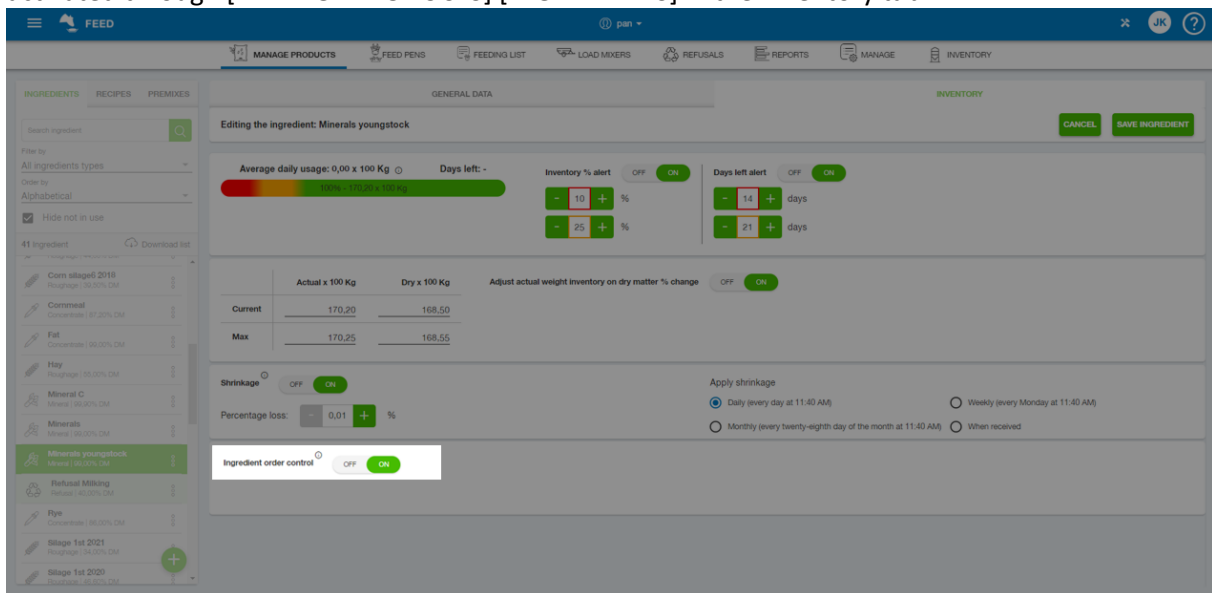7. Through properties it is possible to make changes and apply filters

    a. General: here you can set if the projected requirements should be calculated on 'planned daily usage' or 'actual daily usage'. For 'planned daily usage' the scheduled feedings are used and for 'actual daily usage' the feeding data of the last 7 days is used.
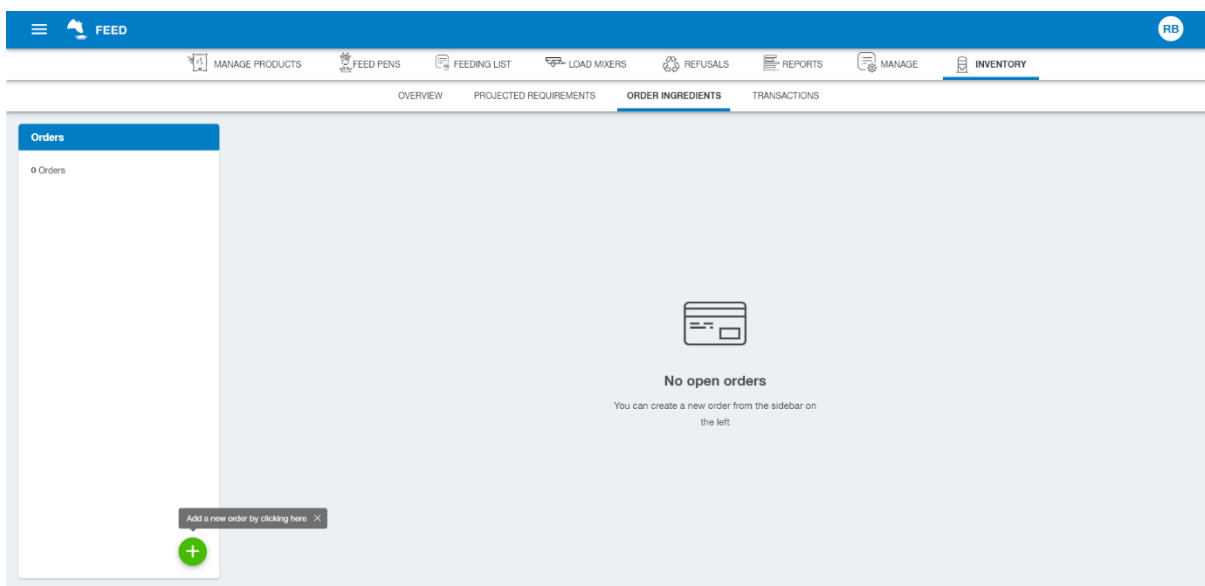
    b. Ingredient: Filter ingredients to be displayed

      c.   Ingredient type: Filter ingredient types to be displayed

      d.   Recipes: It is possible to filter specific recipes

8. Description: The name of an ingredient
9. Displays the current inventory of that particular ingredient. It is possible that the current inventory displays a negative value.
10. Unit as set for the ingredient through [MANAGE PRODUCTS] [INGREDIENTS]
11. Planned daily usage shows how much of each ingredient is required for scheduled loads (refers to [LOAD MIXERS] total ingredient requirement)
12. The Actual daily usage is based on the previous 7-day average of what you actually used of that ingredient
13. The Projected requirements will let you know what the projected requirements for that ingredient will be for the time frame you have chosen (the end date selected). You can choose if this is calculated based on 'planned daily usage' or 'actual daily usage.'
14. The Additional inventory needed is calculated by taking the current stock (positive) and adding the projected requirements for that ingredient. This allows you to see how much you will need of that ingredient for the specific time frame you have chosen and allows you to order new stock accordingly.
15. Price per unit
16. The Projected costs are calculated by taking the ingredient price and multiplying it by projected requirements
17. When 'order control' is active for an ingredient, an order status button is displayed. When no alerts are set for the ingredient, the 'order button' will remain grey. When there are alerts setup, the button will turn either red, orange or green, depending on the status of the inventory of that ingredient. The button will change to 'Receive', when the ingredient has already been ordered but not yet received and the colour will turn blue.
18. Behind each ingredient a pencil is available to go the specific ingredient on the inventory tab
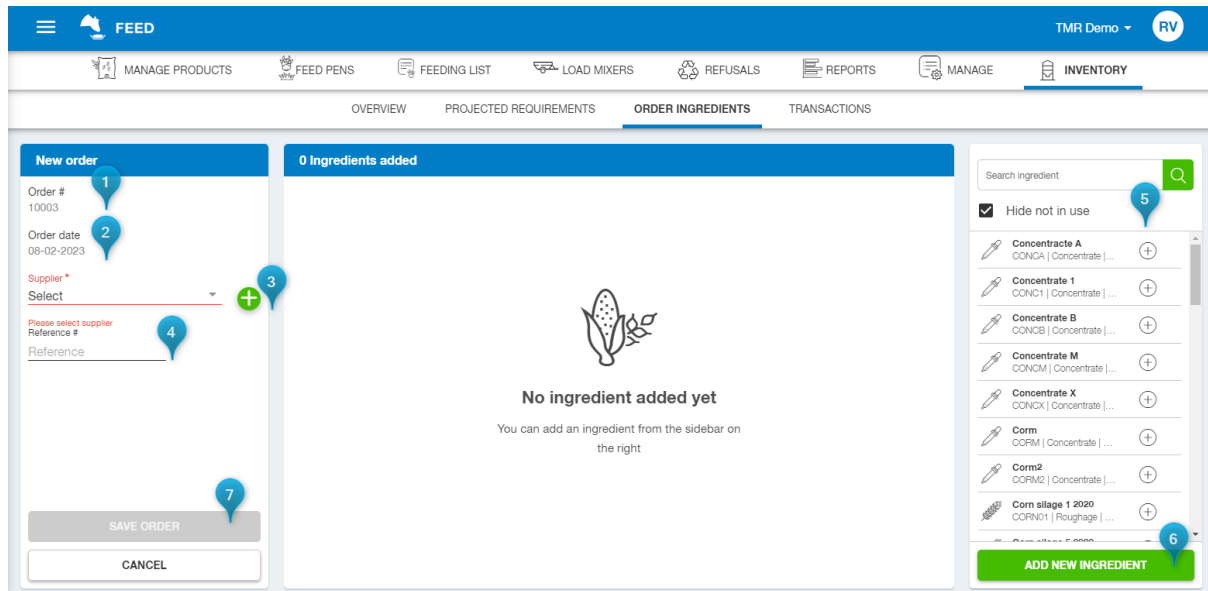
Inventory – Order ingredients:

To enable the order option for an ingredient, the setting 'Ingredient order control' needs to be activated through [MANAGE PRODUCTS] [INGREDIENTS] in the Inventory tab
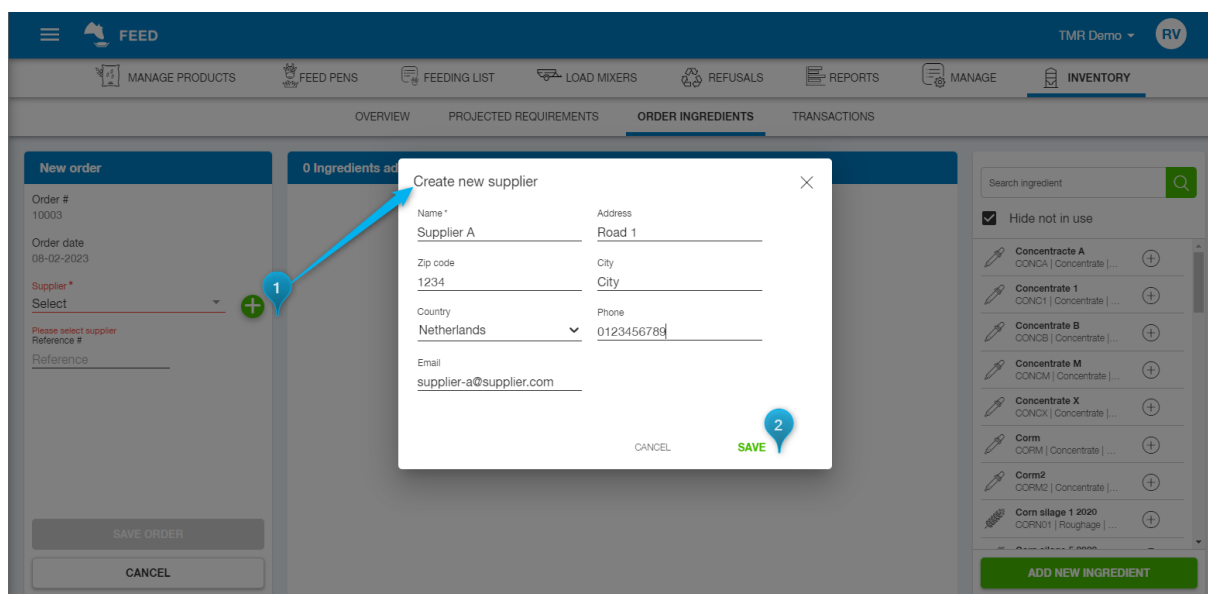

The [ORDER INGREDIENTS] in the section [INVENTORY] feature enables you to order and complete the order process of ingredients.
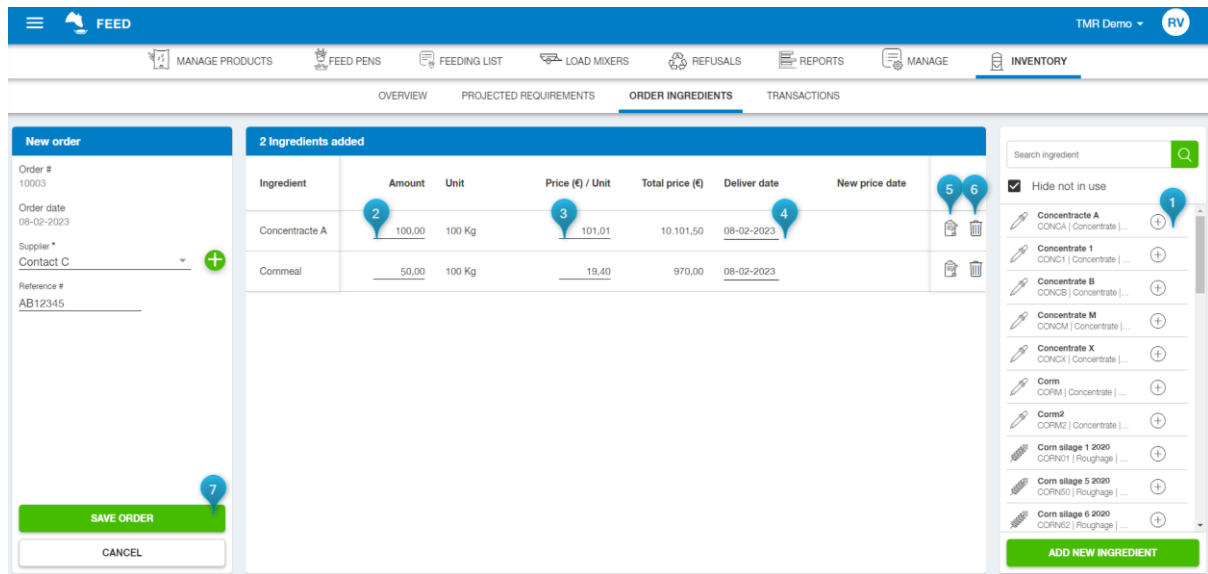

To create a new order, go to [INVENTORY] [ORDER INGREDIENTS] and press on the '+' button.

1. Order # is an auto generated number to differentiate between different orders and cannot be edited
2. The order date is the moment the order is created and cannot be edited
3. A supplier needs to be selected. If the supplier is not in the list, use the '+' button to add a new supplier
4. Reference # can be used to assign an own number to the order, like the order number received from the supplier for example
5. Ingredients with 'order control' active are shown in this list. Using the '+' button behind an ingredient will add the ingredient to the order. Multiple ingredients can be added to one single order.
6. When an ingredient is not yet shown in the list, the 'Add new ingredient' button can be used to add a new ingredient
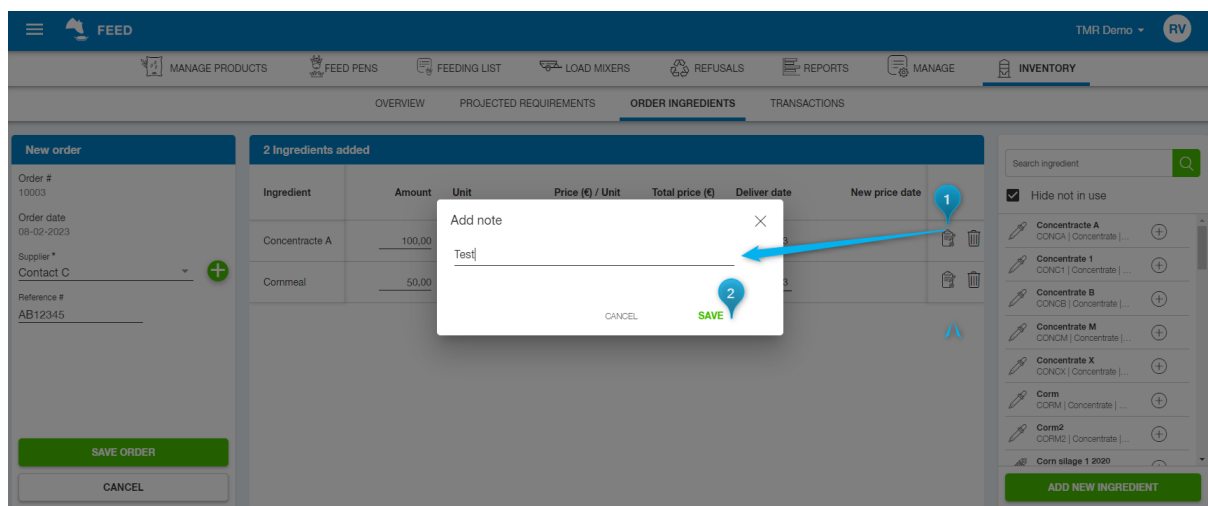
1. Press the '+' button to add a new supplier
2. When everything is entered you can save the new supplier
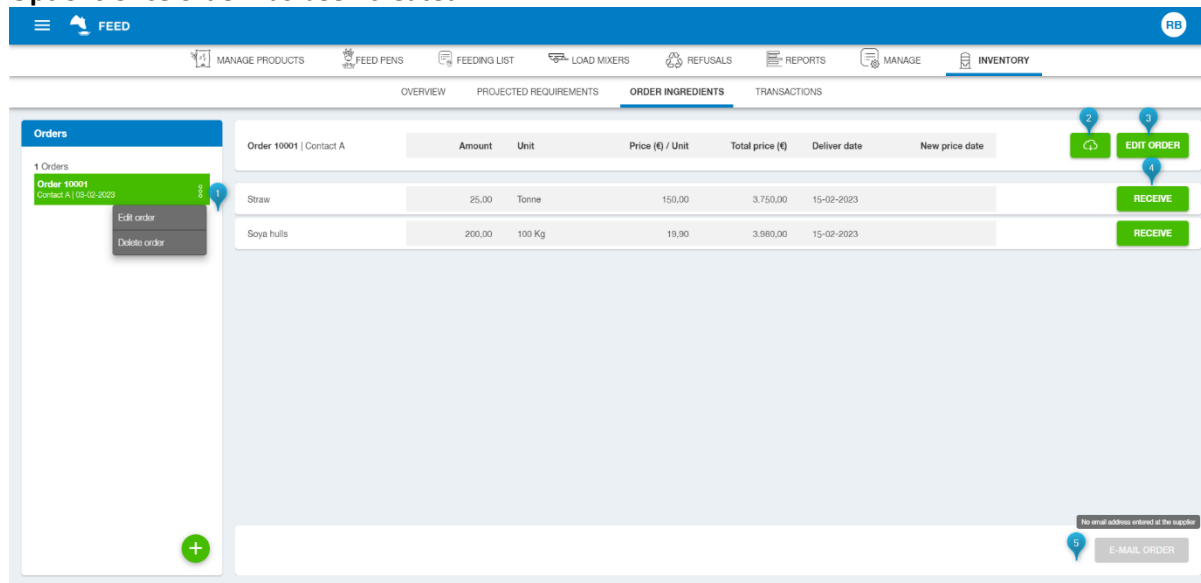
1. Use the '+' to add the ingredients to the order
2. Add the amount that you ordered
3. Enter the price of the ingredient per unit
4. Enter when the ordered ingredient is planned to be delivered
5. If you want to add additional notes, you can use this button
6. If you want to delete an ingredient from the order, you can use the trash can icon
7. To save the order, press on 'Save order'

1. To add a note, press on the paper icon. Enter the information you want to save regarding the order line
2. To save the note, press on 'save'
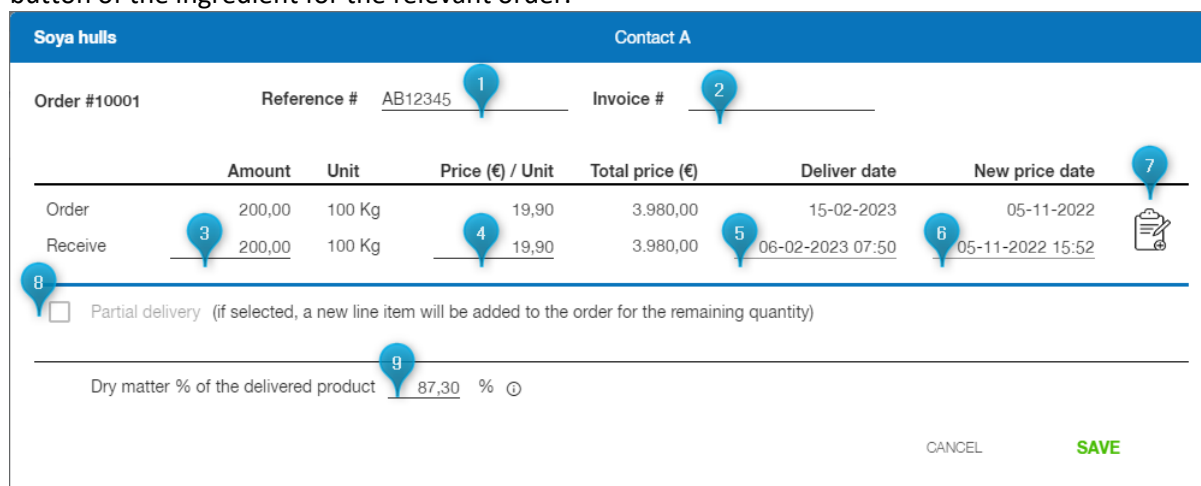
Options once order has been created:

1. Using the 3 dots of an order will give you the option to edit the order and only when the order does not have a received item(s), to delete the order.
Once an item has been received, this can be found with [INVENTORY] [TRANSACTIONS] and this item can't be changed from this area anymore. The order lines that have the status to be received can still be edited and removed from the order.
2. Using the download button, the selected order will be downloaded as PDF
3. Edit order will allow you to make changes to the order
4. The 'Receive' button is used to confirm the delivered ingredient and add the correct amount to the inventory
5. If the supplier that is selected with an order has an email address entered, the order can be e-mailed directly to the supplier. If the email address is missing and you want to add this, you can do this through [MANAGE] [CONTACTS] and edit the contact.
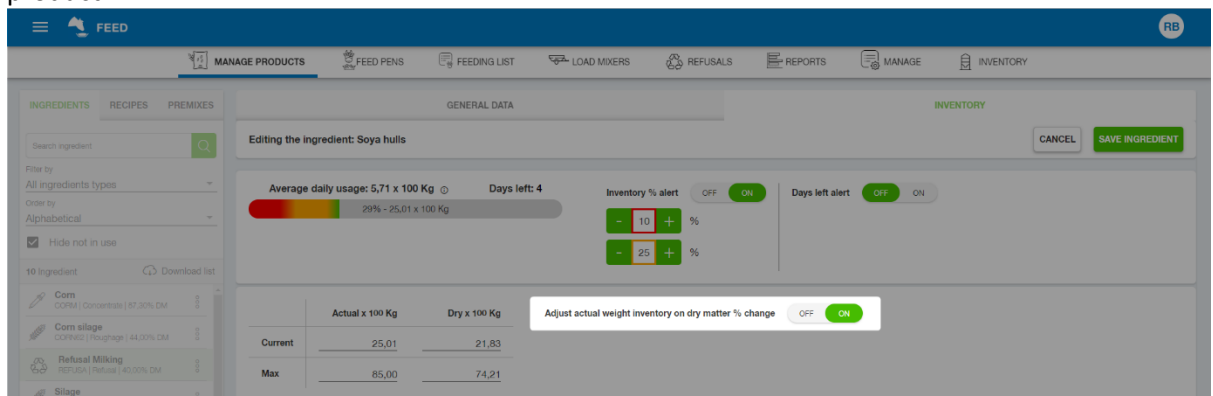
Receive ingredients:

As soon as an ordered ingredient has been delivered, this can be confirmed by means of the 'Receive' button of the ingredient for the relevant order.

1. The 'Reference #' will be pre-filled if this was already entered creating the order. This can be entered/changed here and will be saved with the order.
2. The 'Invoice #' is saved per ingredient on an order

3. The ordered amount of 20.000 kg is pre-filled in the receive field. If the actual delivered amount is different from what was ordered, it can be entered here.
4. The order price is pre-filled, but this can be changed if the price of the delivered product is different from the ordered price. As soon as this is changed, the 'New price date' (6) will be set to the delivery date.
5. This is the date the ingredient was delivered
6. This is the date the price is applied. If the price of the delivered ingredient has not changed, the date of the last price change is shown here. If the price is changed, this date defaults to the delivery date and can be adjusted.
It is also possible to enter a future date here if the current price of the ingredient for a period that it is still in stock is to be applied to reports and not changed until a scheduled date.
These prices and dates can be adjusted via [MANAGE] [DATA TOOLS] [INGREDIENT PRICES] if necessary.
7. It is possible to add or edit the notes for an ingredient. This information can be viewed afterwards with the ingredient(s) in the [INVENTORY] [TRANSACTIONS] area.
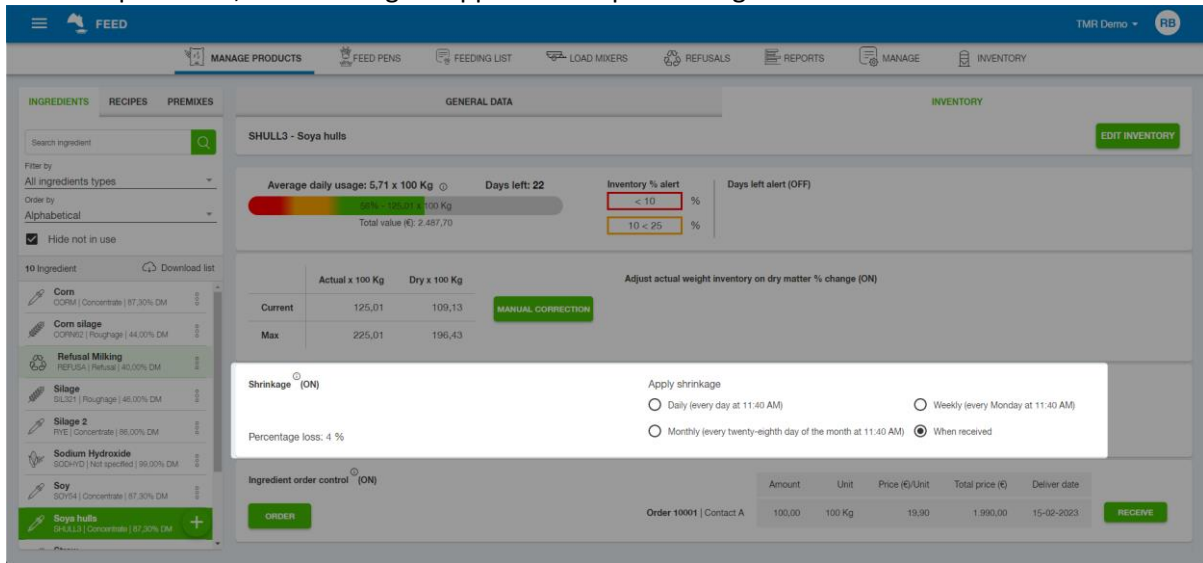8. If the delivered amount is lower than the ordered amount, it is possible to tick 'Partial delivery'. If this option is checked, the ordered amount will be set equal to the delivered amount for this receive and the difference between the ordered and delivered amount will be added as a new line to the order. This new line can be used to confirm a backorder.
9. If the setting *'Adjust actual weight inventory on dry matter % change'* is set to 'ON' for the ingredient, the option becomes available to enter the dry matter percentage of the received product.

The current dry matter percentage of the ingredient is displayed here, and it is possible to change it if the dry matter percentage of the delivered product deviates from the dry matter percentage that is currently applied.
Adjusting the dry matter percentage has the effect that the actual received amount will be adjusted to match the current dry matter % and price. So not the received amount will be added to the inventory, but the adjusted amount will be, and the adjusted amount and price will be given.

Partial delivery:

If the delivered amount is lower than the ordered amount, it is possible to tick 'Partial delivery'. If this option is checked, the ordered amount will be set equal to the delivered amount for this receive and the difference between the ordered and delivered amount will be added as a new line to the order. This new line can be used to confirm a back order.

1. This partial delivery has the received amount given and the ordered amount has been changed.
2. The remaining amount has been added to the order again and can be received once this is delivered.

Shrinkage:

For ingredients that have 'Shrinkage' active, and this is set to the option 'When received' as shown in the example below, this shrinkage is applied while performing the actual receive.

This correction will be shown like this:

Once all ingredients on an order have been received, the order will no longer be available in this area and the individual received item can be found with [INVENTORY] [TRANSACTIONS].

Inventory transactions:

The transactions area shows all inventory transactions over the selected period.

1. It is possible to apply a quick filter on 'Order #', 'Reference #' or 'Invoice #'.
2. This is the time range used to show the transactions. This is based on the date received
3. When a product is delivered and this is not through an order process, 'New delivery' can be used to enter this directly. The details regarding the 'New delivery' will be given later in the document.
4. The report with transactions can be downloaded using this button. This can be downloaded to either PDF, XLS or XLSX.
5. Using properties, it is possible to change the filters and how the data should be shown by default
6. Each transaction is given with a row and the details of the order and receive are provided. To distinguish the 'order receive' and 'direct receive' transactions, different icons are displayed in front of the rows.
7. When a note has been entered with an ingredient, the icon is displayed and hovering over will show the entered information
8. It is possible to edit a transaction. This can be to correct an incorrect entry, or to supplement (correct) data afterwards
9. With 'order receive' transactions you can find an undo button and the 'direct receive' transactions show a delete button. The undo will change the status of the ingredient back, so this moves back to the order again and from here it can be either received, edited or removed from the order. The delete action with a 'direct receive' will completely remove the transaction and to create a new one when needed. For both the 'undo' and the 'delete' a warning is given and here you can set if the amount has to be subtracted from the inventory based on this action. If this correction should not subtract the amount, make sure to untick this option before confirming with 'YES.'

Edit transaction:

When a transaction is edited, the original inventory and price changes are given. At the bottom the changes based on the input will be given.

Soya hulls					Contact A	
Order #10001		Reference # AB12345			Invoice #	
	Amount	Unit	Price (€) / Unit	Total price (€)	Deliver date	New price date
Order	100,00	100 Kg	19,90	1.990,00	15-02-2023	05-11-2022
Receive	90,00	100 Kg	19,90	1.791,00	06-02-2023 10:38	05-11-2022 15:52

Dry matter % of the delivered product   87,30   % ⓘ

Based on original input: 10.000,00 Kg was added to Inventory at a price of 19,90 €

☑ Adjust the inventory of this ingredient based on this change

Based on edited input: 10.000,00 Kg will be changed to 9.000,00 Kg

CANCEL   **SAVE**

By default the option to adjust the inventory is ticked, if this should not happen, make sure to untick.

What to order:

- The TAP FEED Inventory Add-on can only be bought in combination with any of the available TAP FEED main subscriptions.
- Ordering is possible through Topcon TAP FEED distributor and dealerships or directly by the end user via the TAP FEED market.

Pricing per year:

	Part #	USD	EUR	AUD
Add-On TAP FEED Inventory	1054827-01	177	160	255