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mSupply provides for a mechanism to manufacture (build) a new item from two or more existing items. A build is a way of recording items you have manufactured. That is, raw materials that are in your stock are used (taken out of stock), and a new stock item is created.

Note that you must have a version of mSupply® that allows use in manufacturing for this feature to be enabled.

Show builds...

From the Items page of the Navigator, click on the Show Builds button:



You will be shown the standard find window to enter either the number of recent builds to display, or a particular build number.

find transaction
builds
15 most recent transactions, or:
invoice number 👻 equals 💌
Use list view if one entry found
Complex Find Cancel Find

You will then be shown a list as shown below:

٩,	Σ				1	V	*		(
Find	Sum	Order by	Print	Finalize	Dup	licate	Cancel	Filters	Customi	ise Mo	dify			
Types			Name		Туре	St	Entered	Confirmed	Invnum	Total	Their ref	PS printed dt.	Comment	
Customer	Invoices	build			bu	cn	12/10/10	12/10/10	59	0			parapetamol syrup 120mg/	
Supplier In	moires	build			bu	sg	13/10/10		60	0			Dhani lotion 10%	
Townsteen	adjustments	build			bu	cn	20/10/10	20/10/10	61	0			Acriflavin 0.1% spirit	
Inventory	adjustments	build			bu	cn	26/10/10	23/11/10	62	0			parapetamol elixir 120mg/5	
Supplier of	redits	build			bu	cn	17/11/10	17/11/10	63	0			paracetamol elixir	
Customer	credits	build			bu	cn	17/11/10	17/11/10	64	0			syrup,simple	
		build			bu	cn	17/11/10	23/11/10	65	0			actillavin 0.1%	
Repacks		build			bu	cn	23/11/10	23/11/10	66	0			phenobarbitone elixir 15mg	
Find		build			bu	cn	23/11/10	23/11/10	67	0			benzoic acid	
		build			bu	cn	23/11/10	23/11/10	68	0			paracetamol elixir	
By date		build			bu	cn	02/12/10	02/12/10	69	0	2/12/10		simple, syrup	
By Status		build			bu	cn	02/12/10	02/12/10	70	0	011210		Chlorhexidine mouth wash	
My transa	ctions	build			bu	cn	22/12/10	22/12/10	71	0	221210		folic acid syrup	
My custor	m filters	build			bu	8g	10/01/11		72	0			folic acid	
		build			bu	sg	07/02/11		73	0	form 10%		Formalin solution 10%	

From this list you should select the required build by double-clicking on it.

0			Ne	w build					
eference	Comme	nt Syrup, simple						Colour	Black
		Category Non	e	0			1	nvoice	
*				_	·			Date 12/0	5/2021
ltem to build or to edit	Print labels							Store: Gene	ral
Item to build (double	-click to edit)	0		11-11-	Derek		Frankris	Del es	Daine France
tem name	-	Quan	Item	Units	Batch	0 21	Expiry	Price	Price Exten
	_								
	Ingr	edients Bill	of mater	rials Ma	nufacti	uring M	ethod		
+									
New ingredient	Delete line		This is a	projected b	uild				
ine Item code		Item name		Qty	Pack	Batch	Expiry	Price	Price Exten
1 wat01	Water, dist	illed		20000	1	ab34	31/02	7 0.00	0.00
2 sug01	Sugar BP p	owder gm		4800	1	q9	31/02	6 0.00	0.00
3 BASoln	Benzoic aci	id solution		800	1	as67	31/02	7 0.00	0.00
				-					
					Summa	ary			
Current status: n	w				Summa	ary Total	l ingredient	cost	0.00
Current status: n	w No change	B			Summa	ary Total tal built it	l ingredient em sellina	cost	0.00
Current status: n	w No change	•			Summa Tot F	ary Total tal built it Profit over	l ingredient em selling r ingredient	cost price cost	0.00 0.00 0.00
Current status: n Change status to:	w No change	C			Summa Tot F	ary Totai tal built it Profit over Margin on	l ingredient em selling r ingredient 1 ingredient	cost price cost cost	0.00 0.00 0.00 0.00
Current status: n	w No change	0			Summ Tot F	ary Total tal built it Profit over Margin on	l ingredient tem selling r ingredient n ingredient	cost price cost cost	0.00 0.00 0.00 0.00

New build...

From the Items page of the Navigator, click on the New Builds button:

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items:manufactured_items https://docs.msupply.org.nz/items:manufactured_items?rev=1498003110



On choosing this menu item you are shown the build entry window:

Comment Comment						
Category None					Colour	Black
		0			Invoice	
m to build or Drive to both					Date 12/	05/2021
to edit Print labels					Store: Ger	neral
m to build (double-click to edit) m name Quan Item	Units	Batc	h	Expiry	Price	Price Exte
0 0					0	0
Ingredients Bill of mat	terials M	lanufact	uring M	ethod		
wingredient Delete line This is	s a projected	build				
e Item code Item name	Qty	Pack	Batch	Expiry	Price	Price Exten
						_
	_	_				_
		Summ	ary			
						0.00
Current status: nw			Tota	al ingredient	cost	0.00
hange status to: No change 📀		To	tal built i	tem selling	price	0.00
			Profit ove	r ingredient	cost	0.00
			Margin o	n ingredient	cost	0.00
Delete				Cancel	0	K 🛛
Delete				Cancel	0	ĸ
If you have restricted a	ccoss to	build		will not	ho abl	o to
if you have restricted a	ccess to	builds	s, you	will hol		e 10
see cost prices or the p	rofit sur	nmarv	wind	ow at th	ne botto	om.

The build window has two parts:

- The top part of the window records the details of the item to be built
- The lower part lists ingredients that are used in the manufacture of the product.

click the $\ensuremath{\textit{Item to build or to edit}}$ icon



and in the next window enter the name of the product you're manufacturing (Syrup in our example)



and this window is displayed where you should complete the appropriate fields:

	(Syrup, Simple			+	-
Quantity	1			syrup	New iten
Pack size	20000 mL				
Total quantity	20000		1	Location None	
Batch	cs21/11		Volume	per pack	0 m3 S
Expiry	31/3/12	Adjusted local cost	% Margin	Sell price	
nvoice line unit cost (AUD)	0.00	0.00	0.00	0.00	
Manufacturer	Search manufacturer	Do	nor		

Adding ingredients manually

Note that ingredients can be added automatically from the *Bill of materials* tab. If you regularly build the same item, we recommend that you enter a **Bill of Materials** for the item being built, and use the method outlined under the **Using a Bill of Materials** heading below.

First, if you are entering a projected build (one that you expect to perform in the future), check the **This is a projected build** check box. If checked, all items added will be placeholder lines rather than actual stock. Doing this allows you to enter your manufacturing schedule in advance of ordering raw materials. The schedule will be taken into account when ordering to ensure that you will have enough materials in stock when the time comes to manufacture.

• To add a new ingredient, click the **New ingredient** button. You will be shown the standard window for issuing goods from stock:

Item				·
Line 0				New item
Quan 0 of 0				
Pack 0	Bulk/Outer pack size	0		
			Cancel OK	OK & Next

- Enter ingredients just as you would for entering a customer invoice.
- Once you have finished entering ingredient lines, click OK to return to the main window.

- If you wish to edit a line, double-click it, and change the details.
- To delete a line, double-click it, set it's quantity to zero, then click the *OK* button.

Adding the item to be built.

• To add the item to build, click *Item to build or edit* button. You will be shown the *Add/edit supplier invoice line* window below for receiving goods.

	ŀ	Add/edit supplier in	voice line		
ltem	Clindamycin 150mg o	ар		clii150c	-
Quantity	1				New item
Pack size	20000 ea			Pack to one	
Total quantity:	20000				
Batch	cS21/11			Location None	
Expiry	31/12/17		Volume	e per pack	0 m3 <u>S</u>
1		Adjusted local cost	% Margin	Sell price	
Invoice line unit cost (NPR)	0.0000	0.00	0.00	0.0000	
Price extension (NPR)	0.00		Donor		
			Cancel		ОК

- The cost price for the item is automatically calculated for you. You may enter the margin or the selling price as you prefer.
- Once you have entered the item to build, click *OK* to return to the main window.
- If you wish to edit the item, simply double-click inside the "item to build" rectangle.
- At the bottom right of the window in *Summary* section is a summary of the cost, margin and selling prices for the build.
- Once you are satisfied with the details, click *OK* to enter the build into the system. You will be asked if you want to enter the details into stock. If you say *yes*, the newly created item will immediately be available for issuing to customers. If you click *later* then the stock will not be available until you open the build window at a later date and enter it into stock.
- Note that the ingredients used in a build are considered to have been "sold" for re-ordering purposes, and will be counted in your usage.

Finishing build entry

• Understanding build status codes enables you to know what stage each build is at. The codes are the same as for other transactions.

Each build transaction has a status code:

Code	Meaning
nw	 Meaning A new build is being entered, but has not been saved. "Suggested". A build has been entered, but has not yet been confirmed. If stock lines have been entered, raw material stock is reduced so that it is no longer available for other invoices, but the new item is not yet entered into stock. You should leave builds with this status while manufactured items are "in process", or if it is a projected build for a future date. "Confirmed." The item to build has been entered into stock.
sg	"Suggested". A build has been entered, but has not yet been confirmed. If stock lines have been entered, raw material stock is reduced so that it is no longer available for other invoices, but the new item is not yet entered into stock. You should leave builds with this status while manufactured items are "in process", or if it is a projected build for a future date.
cn	"Confirmed." The item to build has been entered into stock.
fn	"finalised." The build can no longer be edited

- When you click the **OK** button you may be asked if you want to enter the build into stock. You should only do so once the manufacturing and Quality Assurance (QA) process is complete. You will not be asked this question if there are any placeholder lines (those with a batch of "none") entered as an ingredient. Such builds are presumed to be for projected manufacturing, and are kept with status **sg** automatically.
- To finalize builds, choose **File > Finalize builds** when the splash screen is showing.

Converting projected builds into an actual build.

- Once your manufacturing of a projected build is about to take place, choose *Item > Show builds* ... to locate the build you want to edit.
- For each line whose batch is equal to "none" (a placeholder line) you will have to double-click it and choose an actual stock line from the item issue window (either by entering the line number or double-clicking the line you wish to use). Once you have done this, the stock you have chosen will be reserved, and manufacturing can take place.
- mSupply® calculates the number of items that will result from your build, and clicking on the *Print labels* icon prints the correct number of labels.

Using a Bill of Materials

A Bill of materials can be thought of as a "recipe" or "formula" for building an item. It records the ingredients, and the quantity of each required to make the finished product. You should create a bill of materials for an item before you come to this screen. This is done in an item's *Item details window*: see here for details. Screenshots in this section are using Simple Syrup as an example, and for this product a Bill of Materials has already been created.

When you click the "Bill of materials" tab in the build window, this window appears:

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		Ne	ew build			
Reference	Comment				Colour	Black
	Category	None	0		Invoice	0
-					Date	12/05/2021
ltem to build or to edit	Print labels				Store:	General
Item to build (dou	ble-click to edit)					
ltem name	. Qı	Jan Item	Units	Batch Ex	piry Pric	e Price Exten
		0 0			0	0
	Ingredients	Bill of mate	rials Manu	facturing Meth	od	
-	-					
Add Bill of Materia	ls Calculate Yields	Print Yield Repo	rt			
riad bin of Materia	is carculate fields	This field keps				
Line	ltem name		Units	Target Quan	Total used	Yield
			Cummer			
Current status	: nw		Summary	dimensional sciential	-	
Change status to	No change		Cost a	agusted yield	0 00	
change status to	. No change		ine	eoretical yield	0.00	
			Actual	amount built		
Delete				Ca	ncel	ок 🛛 🖶

First you need to choose the item to be manufactured:



in the next window you need to specify the quantity to be manufactured and other details:

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Item	Syrup, Simple			₽	-
Quantity	1		5	yrup	New item
Pack size	20000 mL				
Total quantity	20000		Lo	cation None	5
Batch	cs21/11		Volume pe	er pack	0 m3 S
Expiry	31/3/12	Adjusted local cost (AUD)	% Margin	Sell price	
Invoice line unit cost (AUD)	0.00	0.00	0.00	0.00	
Manufacturer	Search manufacturer	Do	nor		
			Cancel		OK

When you click **OK**, you are returned to the **New Build** window, and when you click the **Add Bill of Materials Button**, a window appears where you can confirm or cancel the quantity to be manufactured:

Confirm	You are going to create ingredients for a quantity of 20000 .
	Cancel Ok

Assuming the quantity is correct, click **OK**, and you are returned to the **New Build** window, where the open tab is the **Bill of materials** tab. Click the **Add Bill of Materials** button, and the details on the Bill of Materials according to the formula previously entered for Simple Syrup is displayed:

					Ne	ew build	ł						
tefere	nce	Comme	nt Syrup, si	imple						Colour		Black	
ſ	•		Category	None			0			Invoice	12/05/	2021	
ltem t	to build or o edit	Print labels								Store:	General	2021	
Item	to build (double	-click to edit)				11.1						D: E.	
Item r	name		Qu	Jan	Item	Units	Bate	ch E	xpiry	Pric	e	Price Exte	in
Add I	Bill of Materials	Calculate	Yields	Print Yi	ield Repo	rt							
Line	1	ltem n	ame			Uni	its T	arget Quan	Tota	l used	Yi	eld	1
1	Sugar BP powd	er gm						16000)	0)	0	
2	Water, distilled					ml		20000)	0		0	
3	Benzoic acid se	olution				ml		800)	Q		0	
						Su	mmary				-		
Current status: nw				Cost adju	sted yield		0)					
Cha	inge status to:	No change	0				Theore	tical yield	2	0,000.00)		
							Actual am	ount built	20	0,000.00)		

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Now click the **Ingredients** tab, where the ingredients are listed, but no stock is attached to any item - they are placeholder items (displayed in red). This is done as mSupply® cannot take into account all the factors that go into choosing an appropriate batch to use for each manufacturing run (The expiry, amount on hand, etc). click each line in turn to select the quantity and batch number of available stock lines for each ingredient. Note that there is a button displayed **Re-distribute all**. Clicking this button will take the "total quantity issued" figure and re-distribute it over the available batches, making it easy to move from using a placeholder line to issuing actual stock. The ingredient is repeated in black with appropriate details displayed. At this time (or later) you can also adjust the amount issued to reflect actual issued quantities and the actual batches of raw materials used, as opposed to the theoretical quantities that are initially entered.

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Syrup, Simple		1	20000		bat256	31/12/12	0 0	
ingre	edients Bill of materials Manufactu	ring Method	1					
New	ringredient Delete line	Т	his is a p	projected	build			
Line	Item name	Qty	Pack	Batch	Expiry	Price	Price Exten	1
1	Sugar BP	13340	1	none		0.00	0.00	
2	Water, Purified	20000	1	none		0.00	0.00	
3	benzoic acid solution		1	none		0.00	0.00	
2	Sugar BP	13340	1			0.00	0.00	
3	Water, Purified		1	ZM2377	31/07/12	0.00	44.00	
4	benzoic acid solution	800	1	BI2310	23/11/11	0.00	2,64	

If you are manufacturing the product immediately, the status of the build transaction should be changed to **Confirmed** on completion of the manufacturing process.

1	
Current status:	nw
Change status to:	No change
	No change method
Printing form	Finalized (fn)

Print options:

It's possible to print either a Pick list, detailing the ingredients and quantities, or a summary of the manufactured product. To achieve this, check the print icon in the bottom right hand corner of the window and click the *OK* button. The printing options window will appear and you can choose which document to print:

00	Printing options					
Form to u Message	Manufactured_build_portrait Pickslip_build_landscape	 Remember this choice Destination Printer Preview PDF file on disk Email PDF Export to Excel 				
		Cancel OK				

Calculate Yields button: This button (on the **Bill of materials** tab) compares the actual quantities issued and the actual final quantity manufactured with the theoretical amounts that should have been used and made. This allows you to monitor production efficiency. Use the **Print yield report** button to print the yield information if required.

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