

# PurePEG price update script

## Introduction

This is a script meant to update the website according to a master spreadsheet. It assumes the master spreadsheet is the source of truth, meaning that any changes done to the spreadsheet will be uploaded to the website, but any changes to the website will not reflect on the spreadsheet.

## About variations

The website's database is structured as follows:

| SKU         | Item #                          | List Price     | Other attributes           |
|-------------|---------------------------------|----------------|----------------------------|
| <b>1234</b> | <b>1234-1, 1234-5, 1234-250</b> | <b>(empty)</b> | <b>CAS #, MF, MW, etc.</b> |
| 1234        | 1234-1                          | 50             | (empty)                    |
| 1234        | 1234-5                          | 100            | (empty)                    |
| 1234        | 1234-250                        | 25             | (empty)                    |

Each parent (bold) is its own row, and contains all the attributes. Each variation would have its own item #, List Price, and weight, but no attributes.

In order to avoid confusion and further complexity, all the variations were merged with their parents, which format the sheet now uses: Each variation has its **own copy** of the parent attributes, and the parent row is deleted.

| SKU  | Item #   | List Price | Other attributes    |
|------|----------|------------|---------------------|
| 1234 | 1234-1   | 50         | CAS #, MF, MW, etc. |
| 1234 | 1234-5   | 100        | CAS #, MF, MW, etc. |
| 1234 | 1234-250 | 25         | CAS #, MF, MW, etc. |

## Instructions on updating attributes and name of parent product

If updating the Name or any attributes of the parent product (orange columns), ensure that all the rows for that variation are updated.

| SKU   | Item #   | Name                 | Weight (g) | Purity  |
|---|----------|----------------------|------------|---------|
| 1234  | 1234-250 | New name for product | 0.25       | min.95% |
| 1234  | 1234-1   | Example product      | 1          | min.95% |
| 1234  | 1234-5   | Example product      | 5          | min.95% |
| WRONG: all updated names should be the same |          |                      |            |         |
| SKU   | Item #   | Name                 | Weight (g) | Purity  |
| 1234  | 1234-250 | New name for product | 0.25       | min.95% |
| 1234  | 1234-1   | New name for product | 1          | min.95% |
| 1234  | 1234-5   | New name for product | 5          | min.95% |
| CORRECT: all updated names are the same     |          |                      |            |         |

**Caution:** be careful when dragging numbers down, as excel automatically increments them. It is advised to copy paste instead.

| Molecular Formula | Molecular Weight |
|-------------------|------------------|
| EXAMPLE1          | 1234             |
| EXAMPLE2          | 1235             |
| EXAMPLE3          | 1236             |

Example: When dragging down, excel may auto-increment numbers.

After all updates have been made, save the file, and then run the script.

## Instructions on adding products

| SKU           | Item # | Name        | Weight | Purity       | List Price | Full Name              | Synonyms | CAS Number | Molecular Formula | Molecular Weight | Appearance |
|---------------|--------|-------------|--------|--------------|------------|------------------------|----------|------------|-------------------|------------------|------------|
| 1234 1234-1   |        | New Product |        | 1 min.95%    |            | 100 New Parent Product | NPP      | N/A        | N/A               | N/A              | N/A        |
| 1234 1234-5   |        | New Product |        | 5 min.95%    |            | 500 New Parent Product | NPP      | N/A        | N/A               | N/A              | N/A        |
| 1234 1234-250 |        | New Product |        | 0.25 min.95% |            | 25 New Parent Product  | NPP      | N/A        | N/A               | N/A              | N/A        |

To add a new product:

1. **Add the new rows** to the end of the table, or insert rows in the middle of the table.
2. **Fill out all the required fields** for the product. Ensure that all the attributes, name, and categories are the same across all variations of the same product.
3. **Expand the table formatting** such that the other catalogues in the spreadsheet are updated correctly too.
4. Double check and run the script.

| SKU    | Item #    | Name                   | Weight | Purity       | List Price | Full Name                   |
|--------|-----------|------------------------|--------|--------------|------------|-----------------------------|
| 725245 | 725245-10 | ALC-0159               | 0.1    | min.90%      |            | 687 mPEG45- N, N-Ditetrade  |
| 725245 | 725245-25 | ALC-0159               | 0.25   | min.90%      |            | 962 mPEG45- N, N-Ditetrade  |
| 725245 | 725245-50 | ALC-0159               | 0.5    | min.90%      |            | 1374 mPEG45- N, N-Ditetrade |
| 32002  | 32002-50  | 5,15-Diphenyl-10,20-di | 0.05   | min.97%      |            | 572 4,4'-(10,20-Diphenylpor |
| 32002  | 32002-100 | 5,15-Diphenyl-10,20-di | 0.1    | min.97%      |            | 973 4,4'-(10,20-Diphenylpor |
| 462224 | 462224-10 | Maleimide-(CH2)5-CONH  | 0.1    | min.97%      |            | 850 Maleimide-(CH2)5-CONH   |
| 462224 | 462224-25 | Maleimide-(CH2)5-CONH  | 0.25   | min.97%      |            | 1800 Maleimide-(CH2)5-CONH  |
| 1234   | 1234-1    | New Product            |        | 1 min.95%    |            | 100 New Parent Product      |
| 1234   | 1234-5    | New Product            |        | 5 min.95%    |            | 500 New Parent Product      |
| 1234   | 1234-250  | New Product            |        | 0.25 min.95% |            | 25 New Parent Product       |

*Example: the new products are not included in the table*

To see if the new rows are in the table, check if the table's border includes the new products, and see if the table's formatting is applied (alternating gray and white, in this case). **To expand the table formatting**, locate the triangle at the bottom-right corner of the table and drag downwards.

| Functional Group Pre     | Categories               | Parent | Image URL      | Product URL        | Shipping cla    | In st   | Stock | Ship wt | it |
|--------------------------|--------------------------|--------|----------------|--------------------|-----------------|---------|-------|---------|----|
| DOTA                     | DOTA                     |        | https://purepe | https://purepeg.cc | Tier 2 Unstable | 1       | 5     |         |    |
| DOTA                     | DOTA                     |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| ALC-0159                 | ALC-0159                 |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| ALC-0159                 | ALC-0159                 |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| ALC-0159                 | ALC-0159                 |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| ALC-0159                 | ALC-0159                 |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| TPP(Tetraphenylporphyrin | TPP(Tetraphenylporphyrin |        | https://purepe | https://purepeg.cc | Tier 3 Unstable | backord | 0     |         |    |
| Maleimide                | New Products             |        | https://purepe | https://purepeg.cc | Tier 2 Unstable | 1       | 56    |         |    |
| Maleimide                | New Products             |        | https://purepe | https://purepeg.cc | Tier 2 Unstable | 1       | 56    |         |    |

**To add the product to a new category:**

1. Add the new category on the website first, and ensure that the new category's name **is unique** (no other categories have the same name). The category can also be a subcategory.
2. Copy paste the category name (**case sensitive**) into the categories column.
3. If the product is to go in multiple categories, comma delineate them.  
(e.g. New Products,PEG45)

**To add the product to an existing category:**

1. In the categories column on the sheet, enter the category name (**case sensitive**)
2. If the product is to go in multiple categories, comma delineate them.  
(e.g. New Products,PEG45)

**Caution about commas:**

Commas are used to differentiate different terms in a field. If a comma is used, the parser will create two different terms for the same field. For example, if a product has two different synonyms, the field "Synonym1, Synonym2" will be correctly parsed as two synonyms.

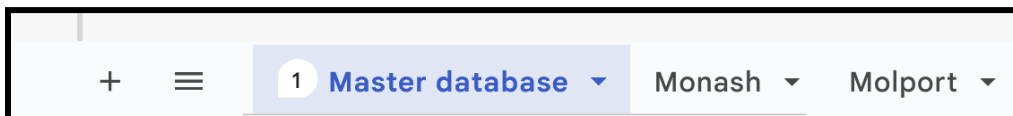
If the field itself has an inherent comma, such as "Store at 2-8C, avoid light", then put a backslash character before the comma to tell the parser that the field is just **one** term, instead of two. For example, "Store at 2-8C\, avoid light"

### **Instruction on adding new variations:**

1. Locate the item's other variations, then insert a row below
2. Copy paste the SKU, name, and other attributes from the other variations above.  
Make sure they are the exact same.
3. Fill out the variation's required fields, such as list price, weight, and item #.  
The **Item #** should always be unique.
4. Run the script.

## Instructions on running the script

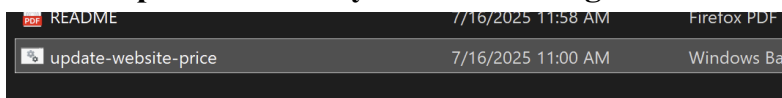
Ensure that the first sheet of the spreadsheet (.xlsx or .xlsm) file is the master sheet



Ensure that the spreadsheet has all the following columns (case sensitive):

SKU, Item #, Name, Weight (g), Purity, List Price, Full Name, Synonyms, CAS Number, Molecular Formula, Molecular Weight, Appearance, Storage, SMILES, PEG Length, Functional Group, Functional Group Prefix, Categories

Run the update-website-price.bat file by double clicking it



Use the arrow keys to navigate to the correct Excel file. After confirming it is the correct file, press enter

```
? ? Select the Excel file to process:
Note: First sheet in excel file has to be the master database

(Use arrow keys)
> Master sheet.xlsm.xlsx
```

Do not exit the window until it is done and displays the following messages:

```
Starting product processing for 3808 items...
[=====] 3808/3808 (100.0%) |
Cache saved to C:\Users\jdyjo\Documents\PurePEG-price-update\update-cache.xlsx
Update log saved to C:\Users\jdyjo\Documents\PurePEG-price-update\update-log.txt
Errors log saved to C:\Users\jdyjo\Documents\PurePEG-price-update\update-errors.txt

Process complete.
✓ 15 items were created or updated.
Encountered 11 errors. Check C:\Users\jdyjo\Documents\PurePEG-price-update\update-errors.txt for details.

Press any key to continue . . .
```

## Reading the update and debug logs

After each update, the program will log all the items it updated, and all the errors it encountered in separate .CSV files.

They are stored in **Master-Database → update-website-price → meta**.

The update log will store all the fields that it has updated. If any unusual fields are being updated, it is possible that something is wrong with the sheet. **The program will only update any changes made to the sheet that happened after the last time it was run.**

The error log will store any errors that it encountered, along with a message. Note that if an item has met an error while it was being updated, it will probably not be reflected on the website. If updates to the sheet are not being reflected on the website, it may be helpful to check the error logs.

## Technical set up

This set up should have already been completed by an administrator. This is the technical documentation for the script in case any big changes are made.

1. In WooCommerce, go to advanced settings → REST API.
2. Make a new REST API key with both R/W permissions, if there isn't already one
3. Install node.js at [nodejs.org/en/download](https://nodejs.org/en/download)
4. cd into the update-website-price folder from a terminal
5. Run npm install
6. In an .env file, copy paste the WooCommerce REST API key in the following format:

```
WC_API_URL="https://purepeg.com/"  
WC_KEY="ck_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"  
WC_SECRET="cs_XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX"
```

## Technical documentation

Since the excel file only has SKU (non-unique) and item # (not indexable), the system has to first use two GET calls to convert the item # to the item ID within the wordpress database.

The first (GET products?sku=xxxxxx) to convert SKU → Parent item #

The second (GET products/item\_id/variations) to get all the variation IDs, as well as the unique item # for each variation, which is then converted into the unique item ID.

The third PUT call actually updates the price of the item.  
(PUT products/item\_id/variations/variation\_id).

Since this is slow, an item # → variation\_id cache is stored in a file called id\_cache.json. All updates are stored in a CSV log, for later reference.