Chemwatch How To….
Create Labels for Chemicals, Products & Mixtures.

Dr Ian Lane
Radiation and Chemical Manager
Faculty of Science

Version 1.0, April 2017

Outline:

(i) Important Note!

Part A: Creating a label for a Chemical or Product already in Chemwatch

Part B: Creating a Mixture - Label / Mini-SDS

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

IMPORTANT NOTE!

Internet Explorer is NOT supported by Chemwatch Developers

Use Mozilla Firefox or Google Chrome when using Chemwatch!

Part A: Creating a label for a Chemical or Product already in Chemwatch

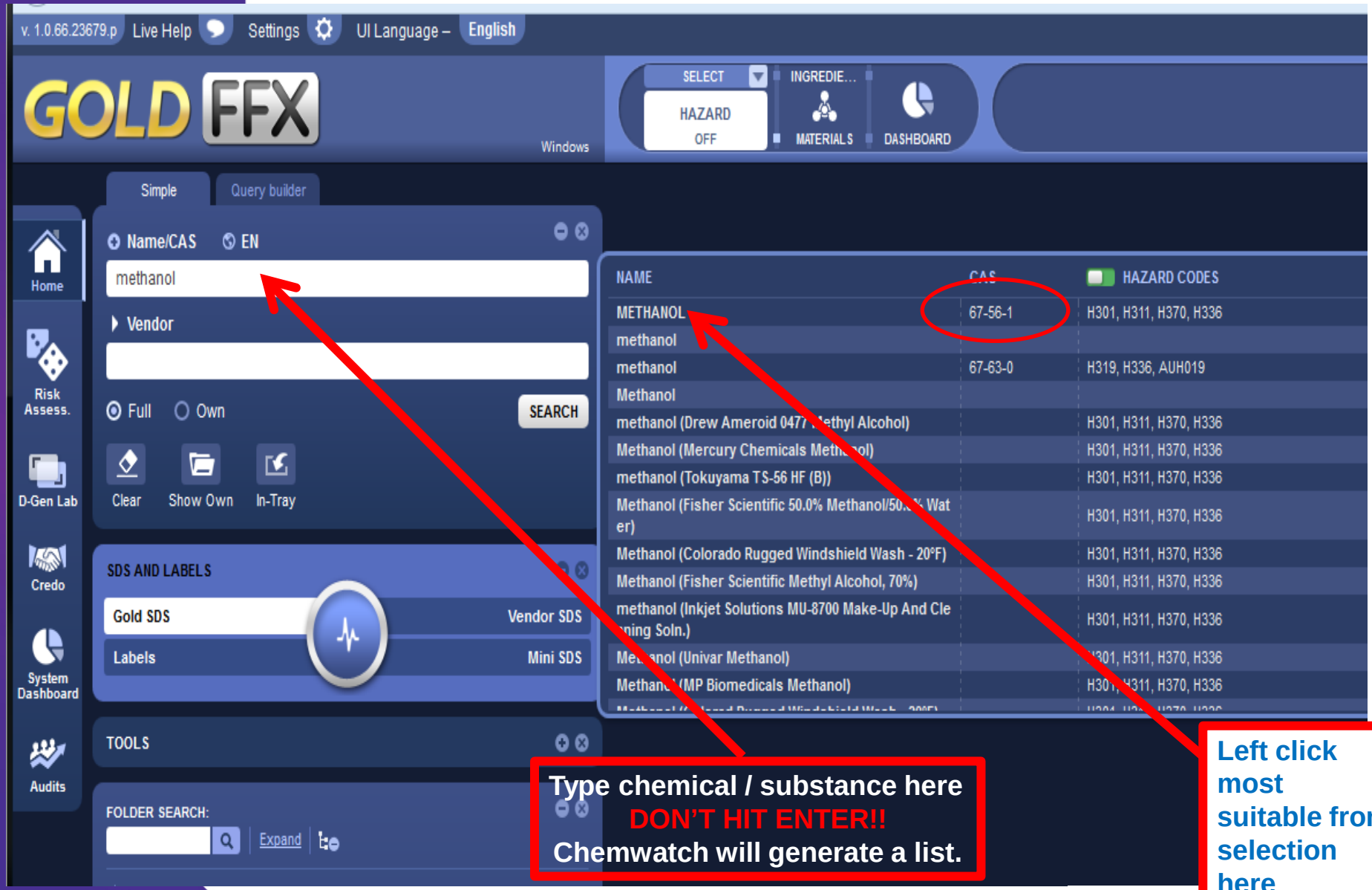
- Is Simples….

but relies on an understanding Chemwatch

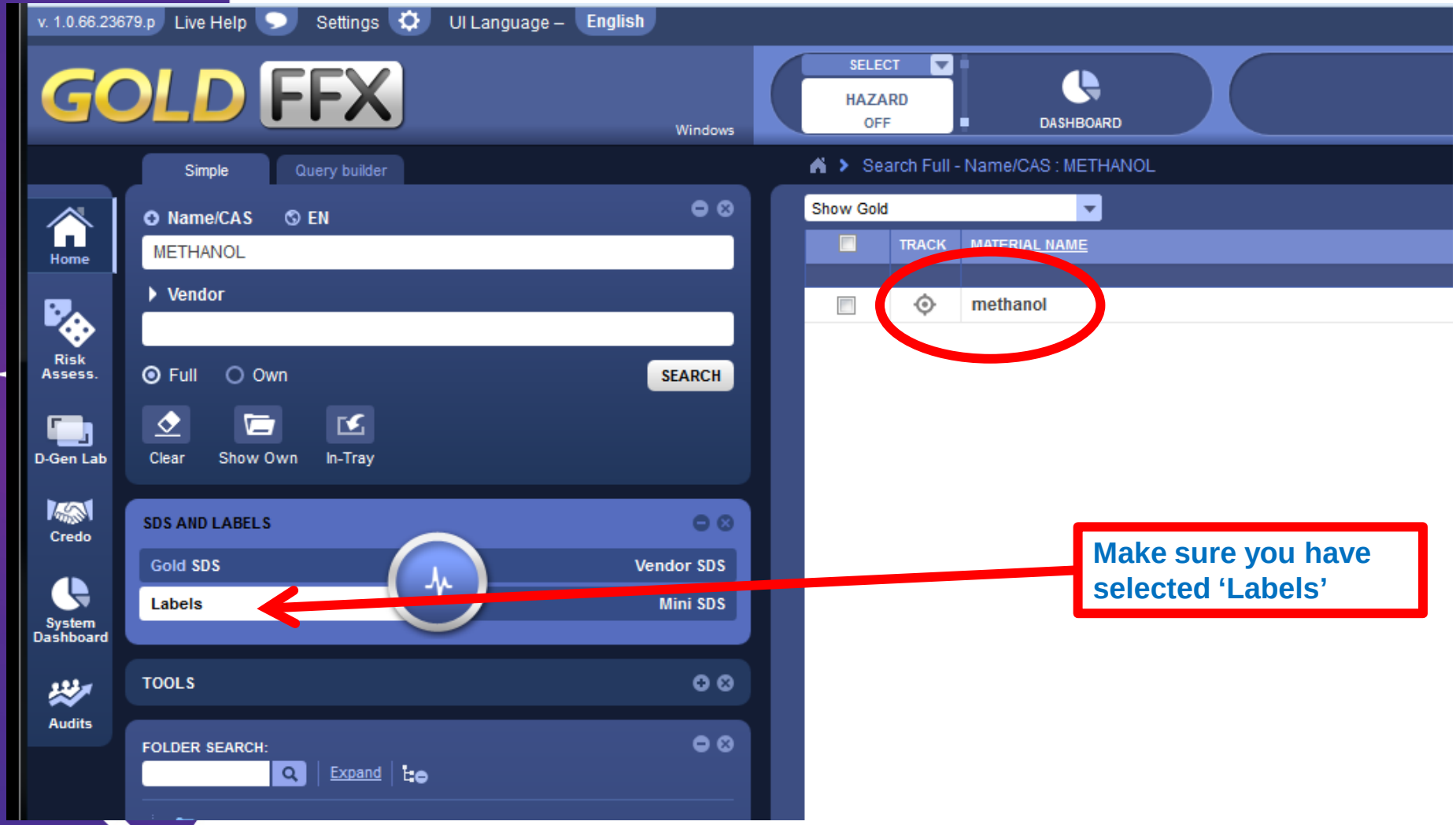
- Need to be familiar with GUI and interfacing nuances

GOLD FFX
Simple
Query builder
Name/CAS
EN
Vendor
Full
Own
SEARCH
Clear
Show Own
In-Tray
(M)SDS AND LABELS
Gold (M)SDS
Vendor (M)SDS
Labels
Mini (M)SDS
TOOLS
FOLDER SEARCH:
Expand
COLLECTION
ENTERPRISE
FOLDERS
MANIFEST
DELETED
Searches performed here
MSDS type, LABELS, emergency info accessed here
UQ Inventories accessed here
only if you have authorised access

Search for the Chemical / Substance



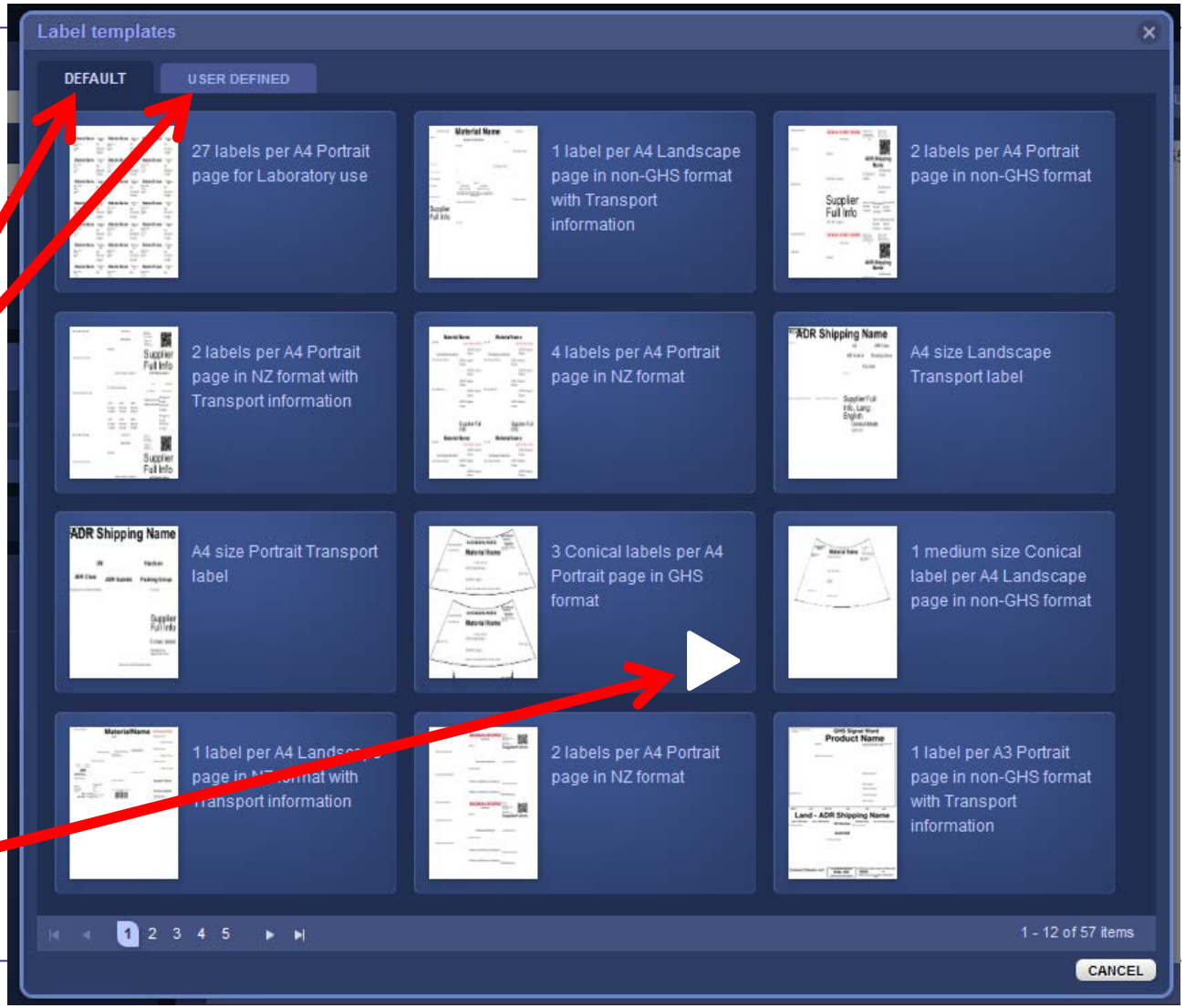
Pick from Selected List….



Make sure you have selected ‘Labels’

Label Gallery

Default vs User Defined Tabs

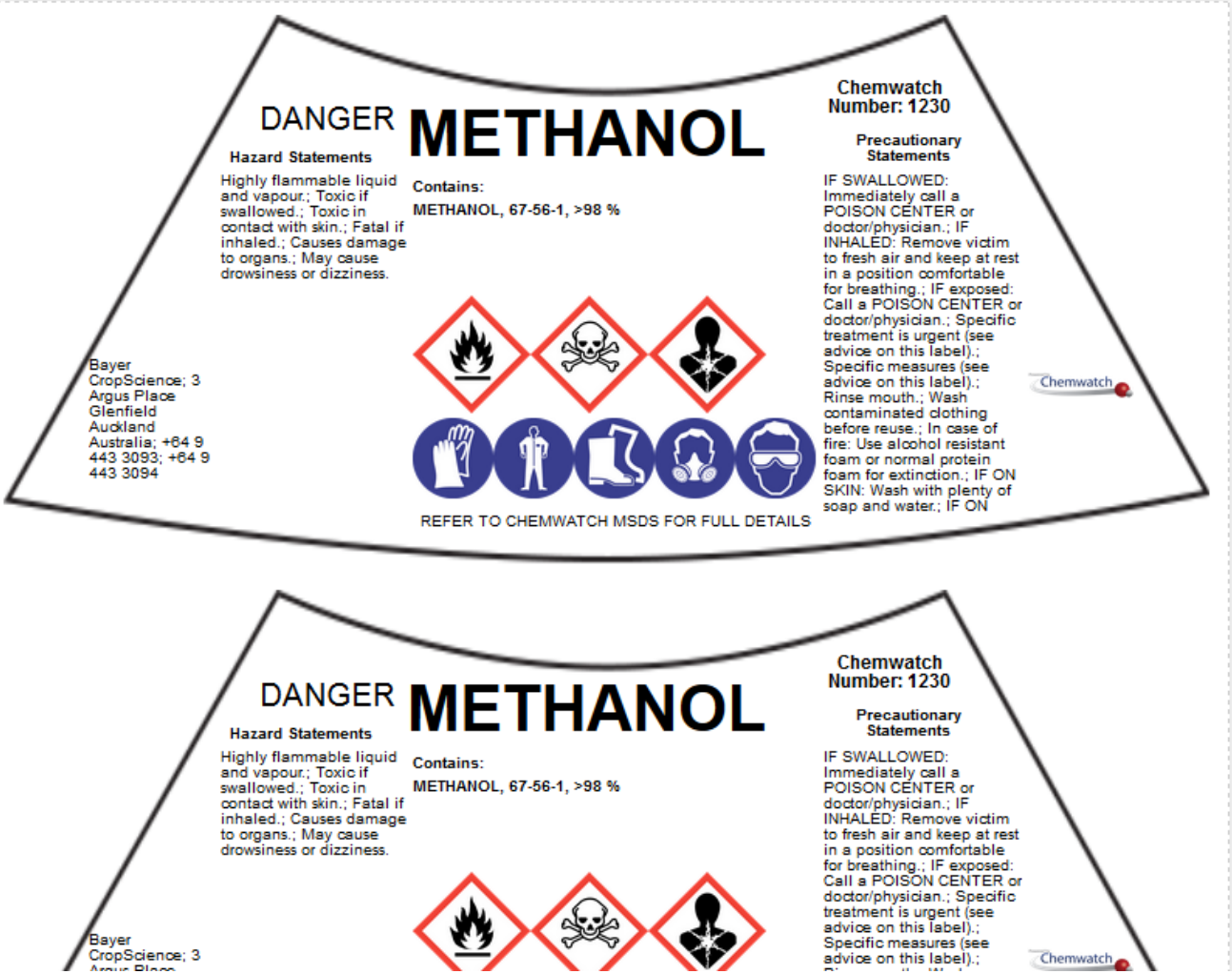


Select TAB

Choose size/type required in GHS format

Hover over..
Click on
ARROW

Finished Label – Save as PDF



DANGER **METHANOL**

Hazard Statements

Highly flammable liquid and vapour.; Toxic if swallowed.; Toxic in contact with skin.; Fatal if inhaled.; Causes damage to organs.; May cause drowsiness or dizziness.

Contains:

METHANOL, 67-56-1, >98 %

Chemwatch Number: 1230

Precautionary Statements

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.; IF exposed: Call a POISON CENTER or doctor/physician.; Specific treatment is urgent (see advice on this label).; Specific measures (see advice on this label).; Rinse mouth.; Wash contaminated clothing before reuse.; In case of fire: Use alcohol resistant foam or normal protein foam for extinction.; IF ON SKIN: Wash with plenty of soap and water.; IF ON

Bayer CropScience; 3 Argus Place Glenfield Auckland Australia; +64 9 443 3093; +64 9 443 3094

REFER TO CHEMWATCH MSDS FOR FULL DETAILS

Chemwatch

DANGER **METHANOL**

Hazard Statements

Highly flammable liquid and vapour.; Toxic if swallowed.; Toxic in contact with skin.; Fatal if inhaled.; Causes damage to organs.; May cause drowsiness or dizziness.

Contains:

METHANOL, 67-56-1, >98 %

Chemwatch Number: 1230

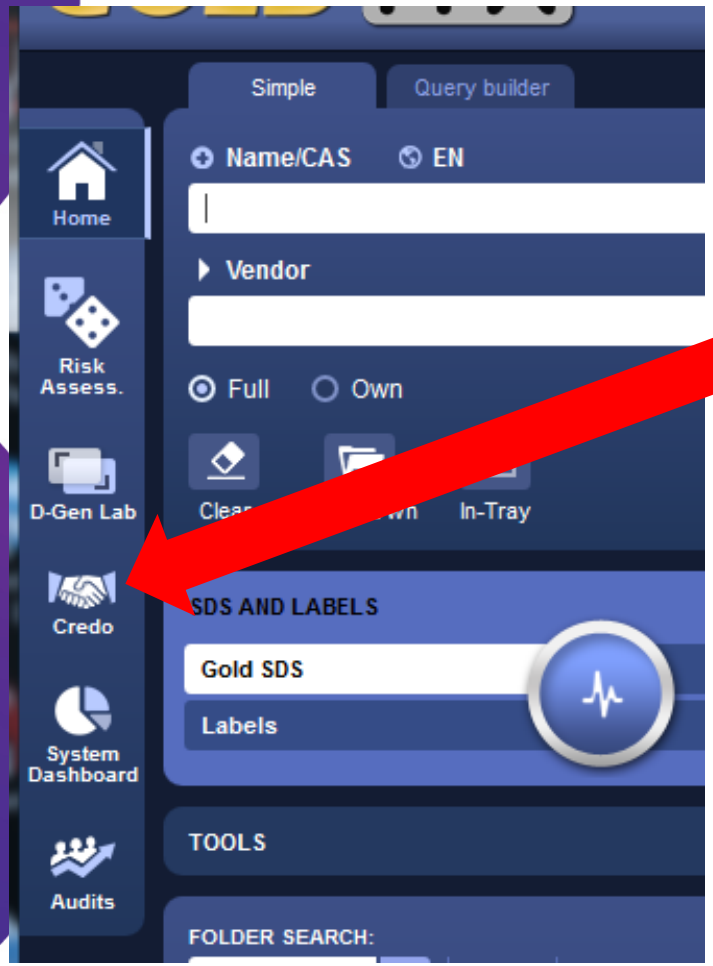
Precautionary Statements

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.; IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.; IF exposed: Call a POISON CENTER or doctor/physician.; Specific treatment is urgent (see advice on this label).; Specific measures (see advice on this label).;

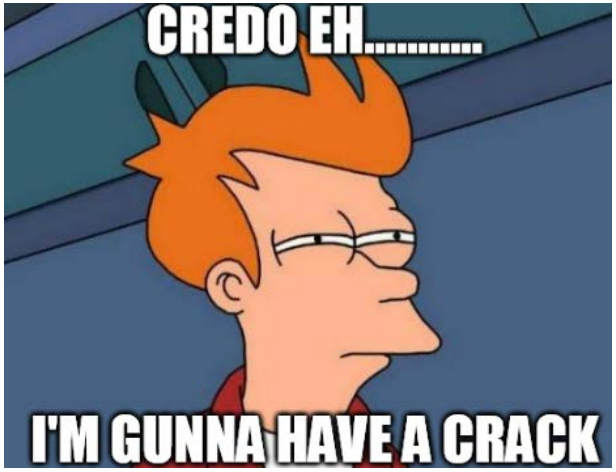
Bayer CropScience; 3

Chemwatch

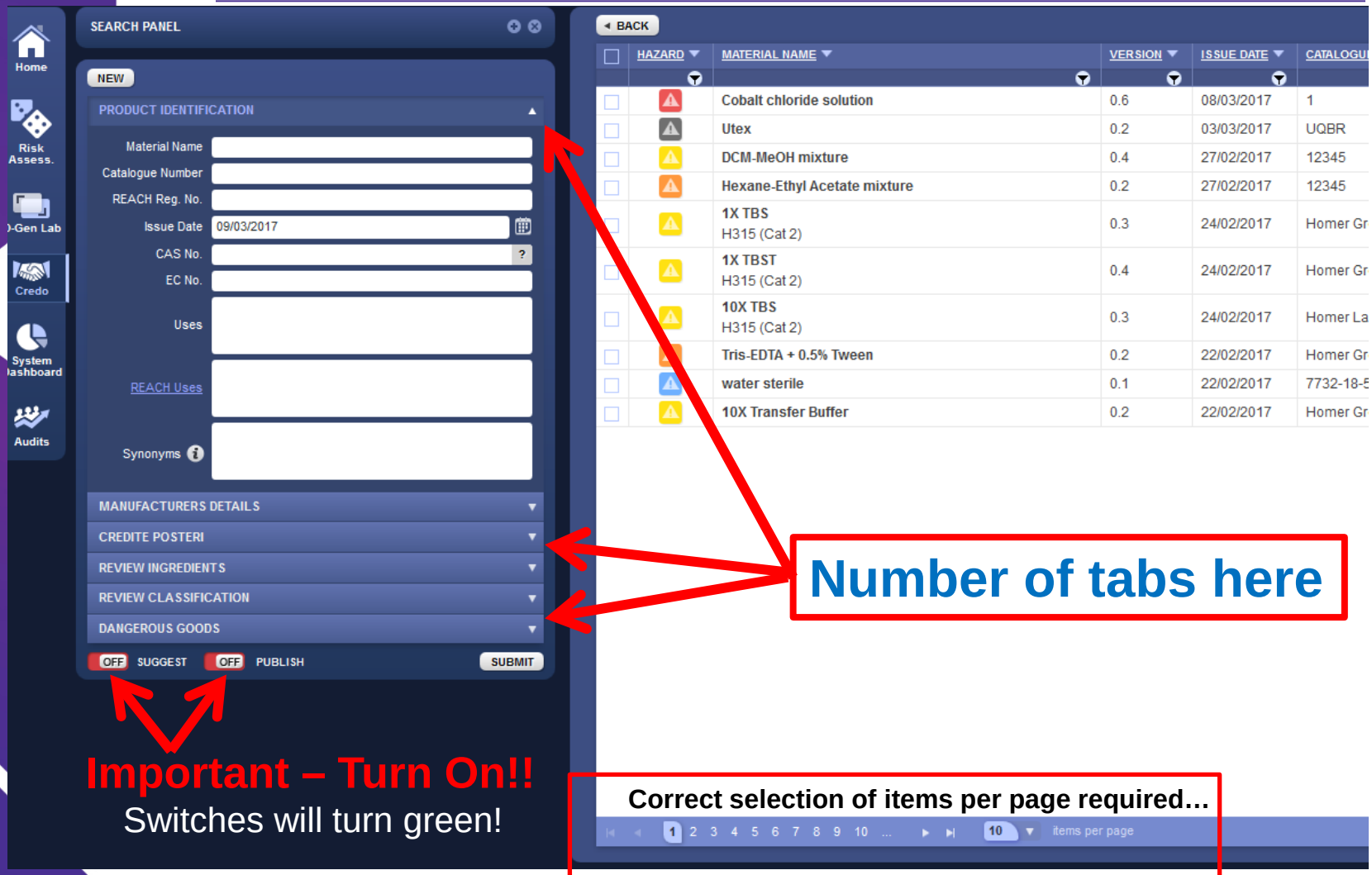
Part B: Creating a Label for a Chemical Mixture or Product Not Already Listed in Chemwatch



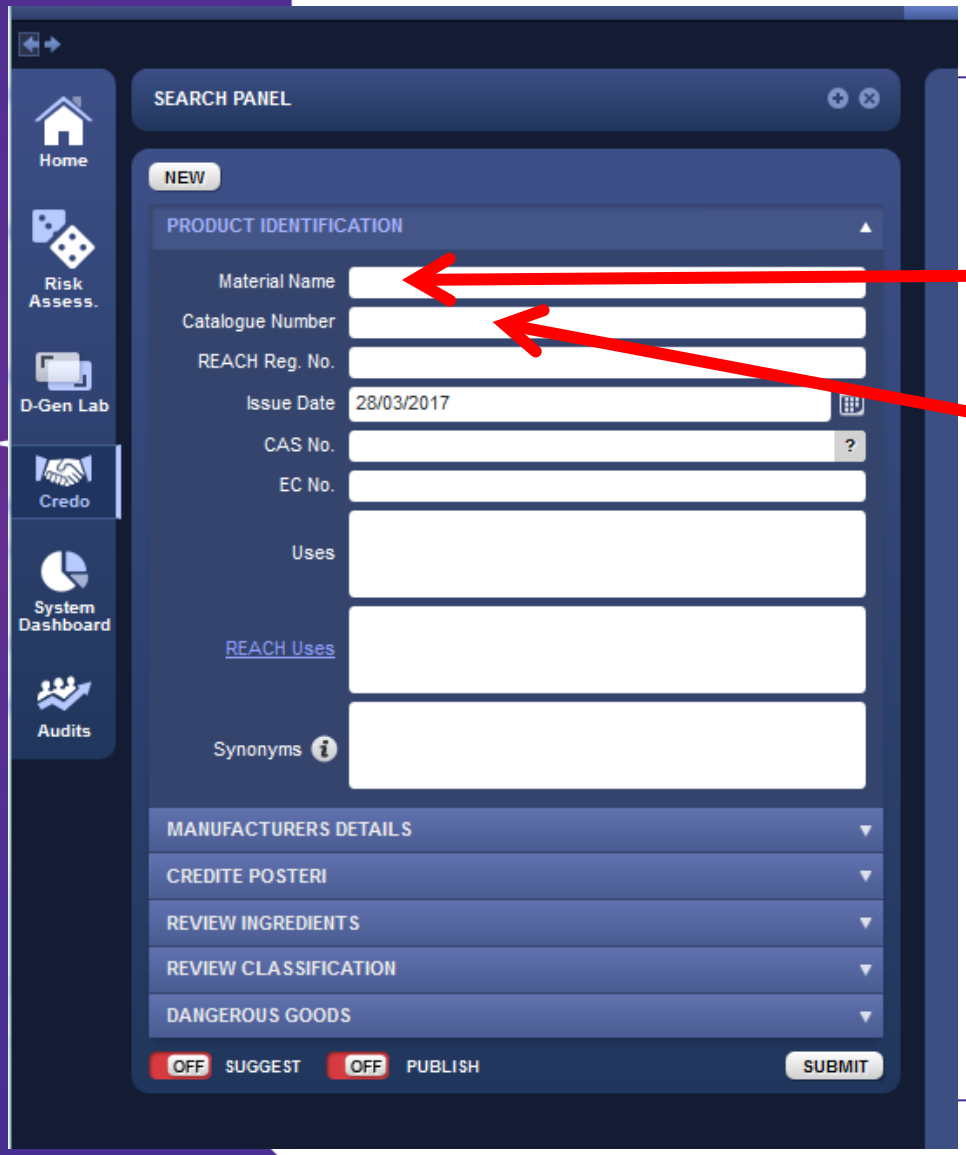
Access **CREDO** module here.



Credo GUI


SEARCH PANEL
NEW
PRODUCT IDENTIFICATION
Material Name
Catalogue Number
REACH Reg. No.
Issue Date
09/03/2017
CAS No.
EC No.
Uses
REACH Uses
Synonyms
MANUFACTURERS DETAILS
CREDITE POSTERI
REVIEW INGREDIENTS
REVIEW CLASSIFICATION
DANGEROUS GOODS
OFF SUGGEST
OFF PUBLISH
SUBMIT
Home
Risk Assess.
Credo
System Dashboard
Audits
BACK
HAZARD
MATERIAL NAME
VERSION
ISSUE DATE
Cobalt chloride solution 0.6 08/03/2017 1
Utex 0.2 03/03/2017 UQBR
DCM-MeOH mixture 0.4 27/02/2017 12345
Hexane-Ethyl Acetate mixture 0.2 27/02/2017 12345
1X TBS H315 (Cat 2) 0.3 24/02/2017 Homer Gr
1X TBST H315 (Cat 2) 0.4 24/02/2017 Homer Gr
10X TBS H315 (Cat 2) 0.3 24/02/2017 Homer La
Tris-EDTA + 0.5% Tween 0.2 22/02/2017 Homer Gr
water sterile 0.1 22/02/2017 7732-18-5
10X Transfer Buffer 0.2 22/02/2017 Homer Gr
Number of tabs here
Important – Turn On!!
Switches will turn green!
Correct selection of items per page required…
1 2 3 4 5 6 7 8 9 10 ...
10
items per page

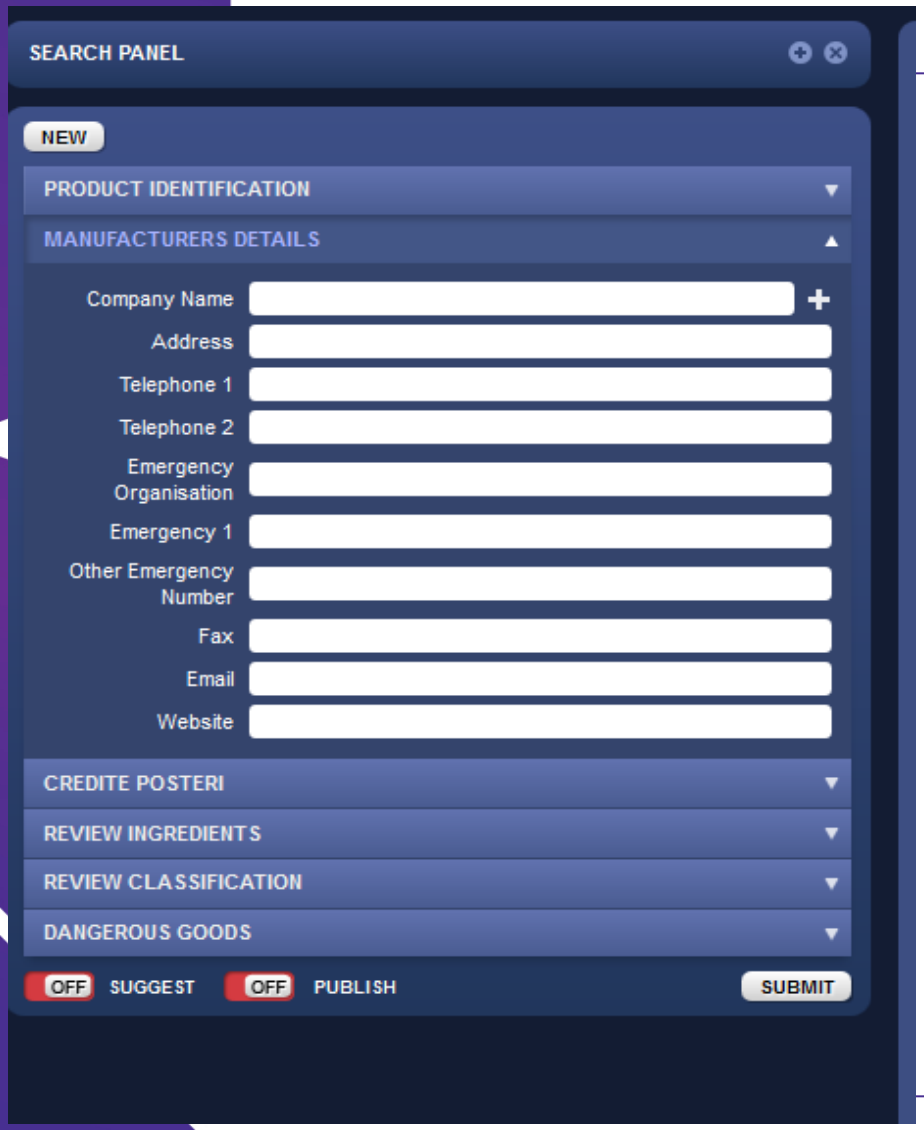
Product Identification Tab



Insert Product Name

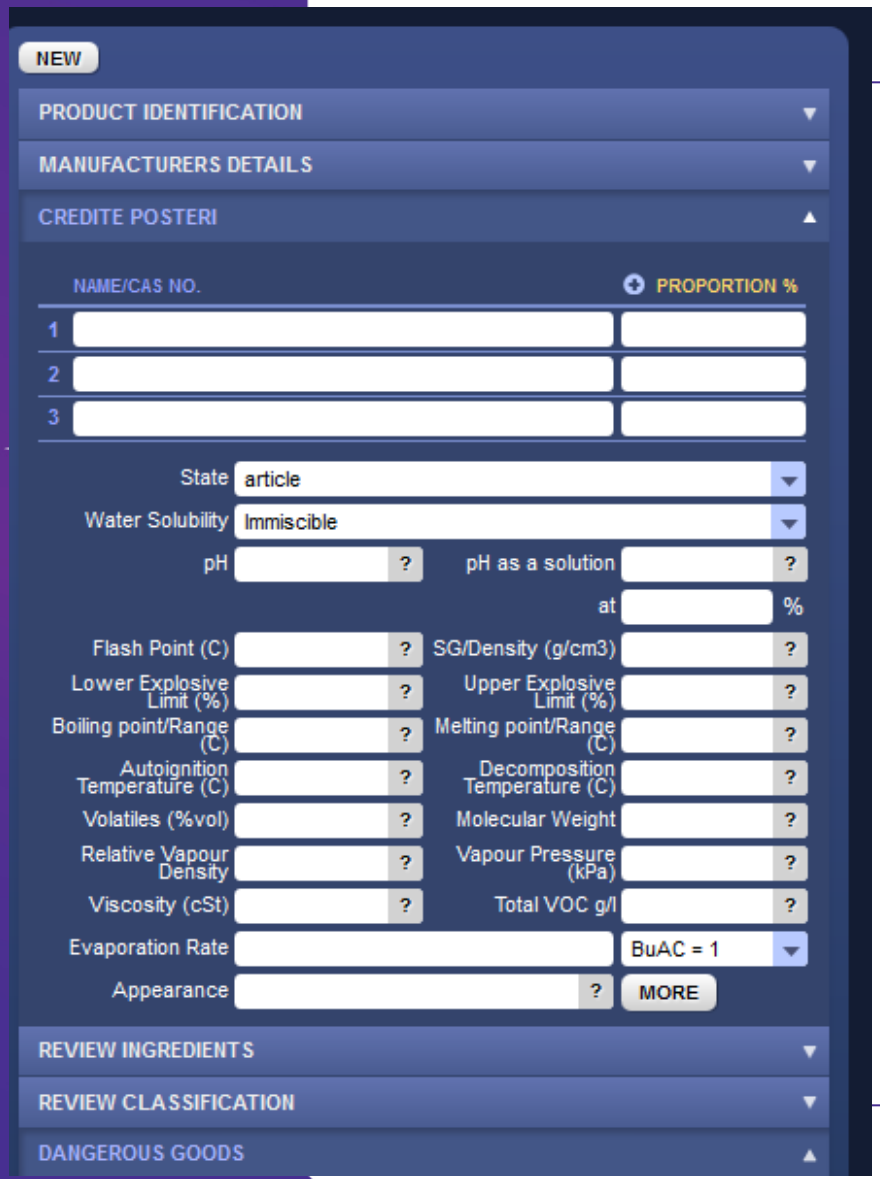
Insert Catalogue Number – this must be entered.
It can be anything you like.

Manufacturer's Tab



Enter your UQ Organisation Unit details

Credite Posteri Tab



Enter Ingredient Name or CAS number (don't hit return) – pick from generated list.

Enter Ingredient Proportion

Enter any further physical property information you may have on mixture.

Using Ingredient Molarity Rather than Percentage to Enter Ingredients in Credo

Example: NaCl (0.8M) and $NaHCO_3$ (0.2M) Aqueous Solution

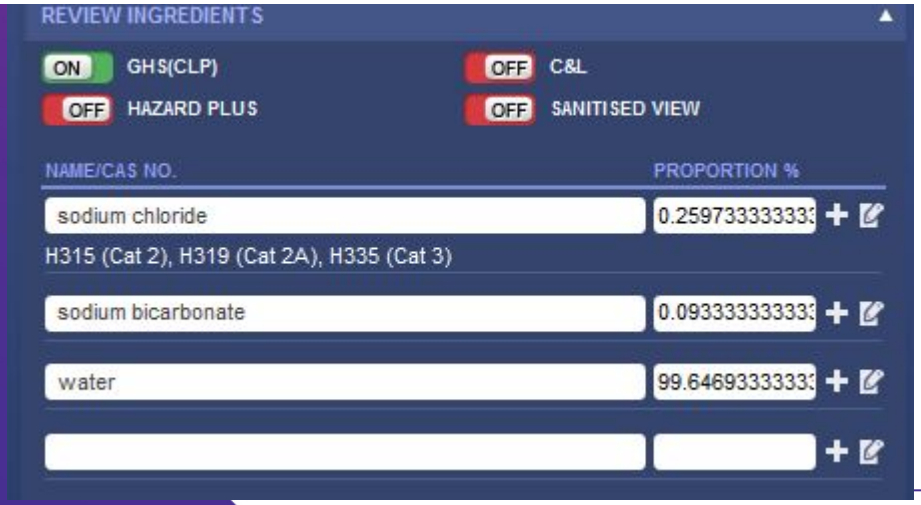
To select Molarity rather than %, click here.

To add Water as Balance:

- Click on Question mark in this field
- Select Balance

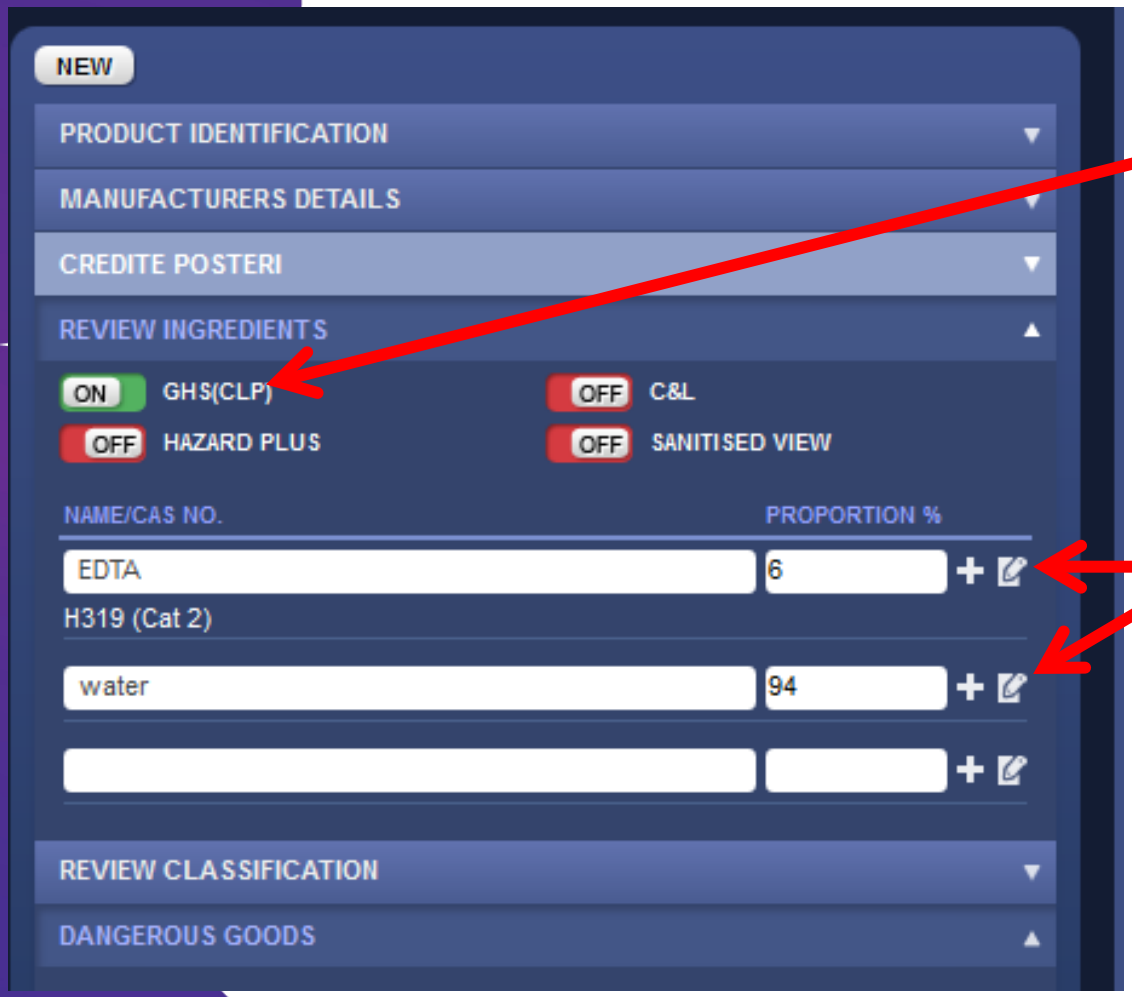
A dialogue box may ask you to enter the molecular weight of salts in your mixture. You may also be prompted to enter the molecular weight of water, or the SG (specific gravity) of water:

Molecular weight of water = 18; specific gravity of water = 1



Percentages are then calculated within the 'Review Ingredients' tab.

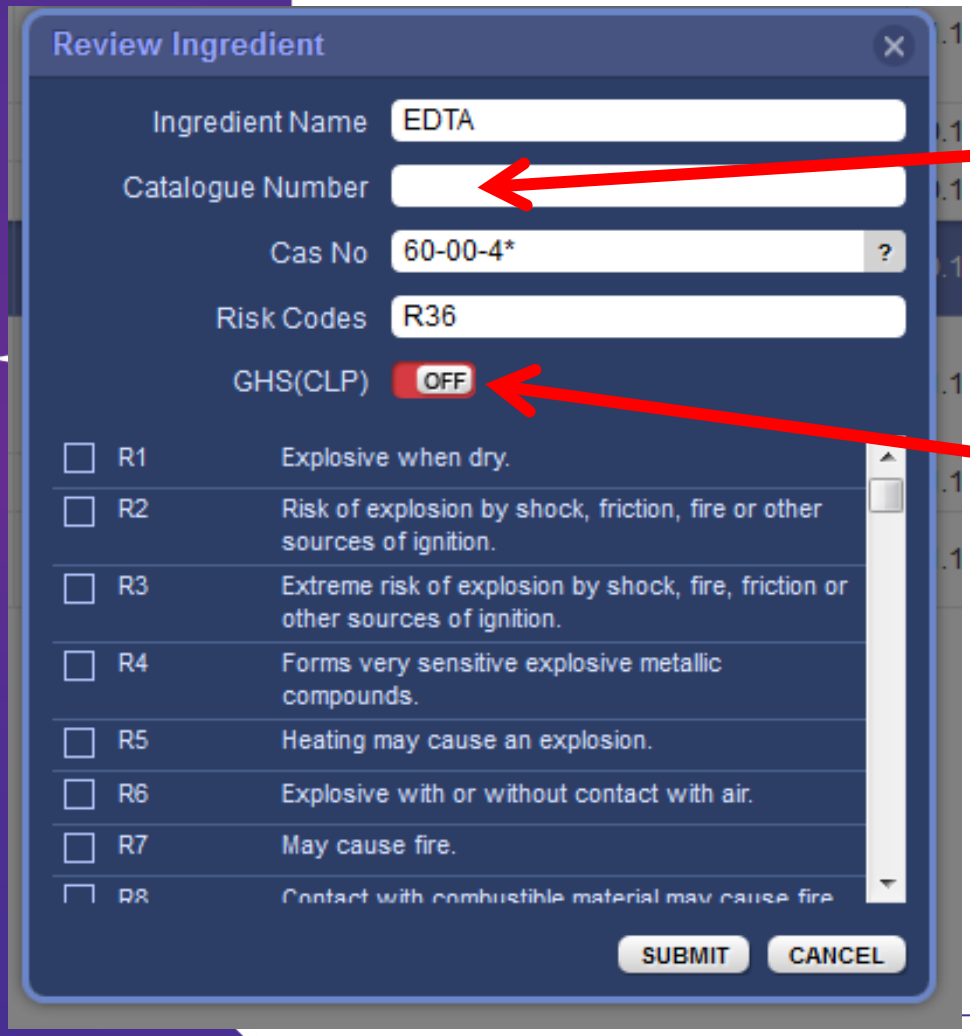
Review Ingredients Tab



Make sure the GHS switch is turned on (Green)

Click here for each ingredient in the mixture & edit GHS properties further

Review Ingredients Tab (continued)

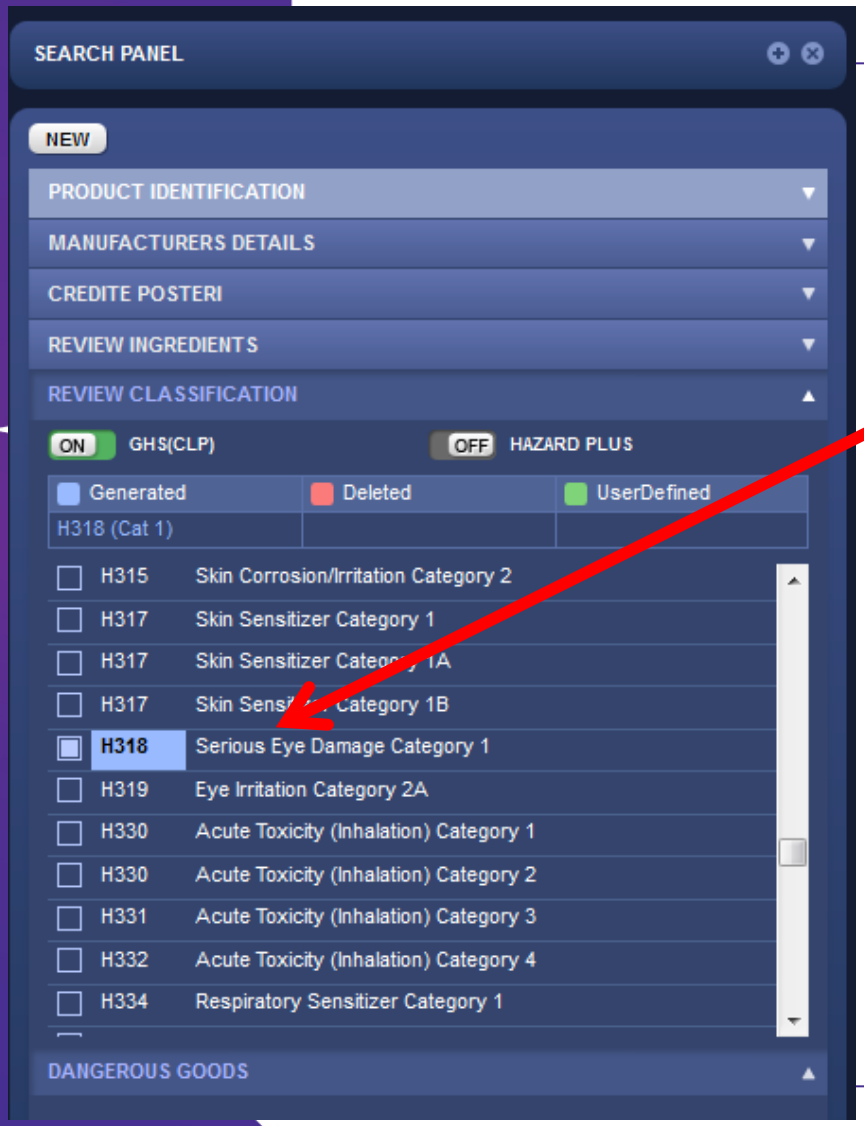


A catalogue number must be entered.

Click on the GHS switch to turn this on (will turn Green)

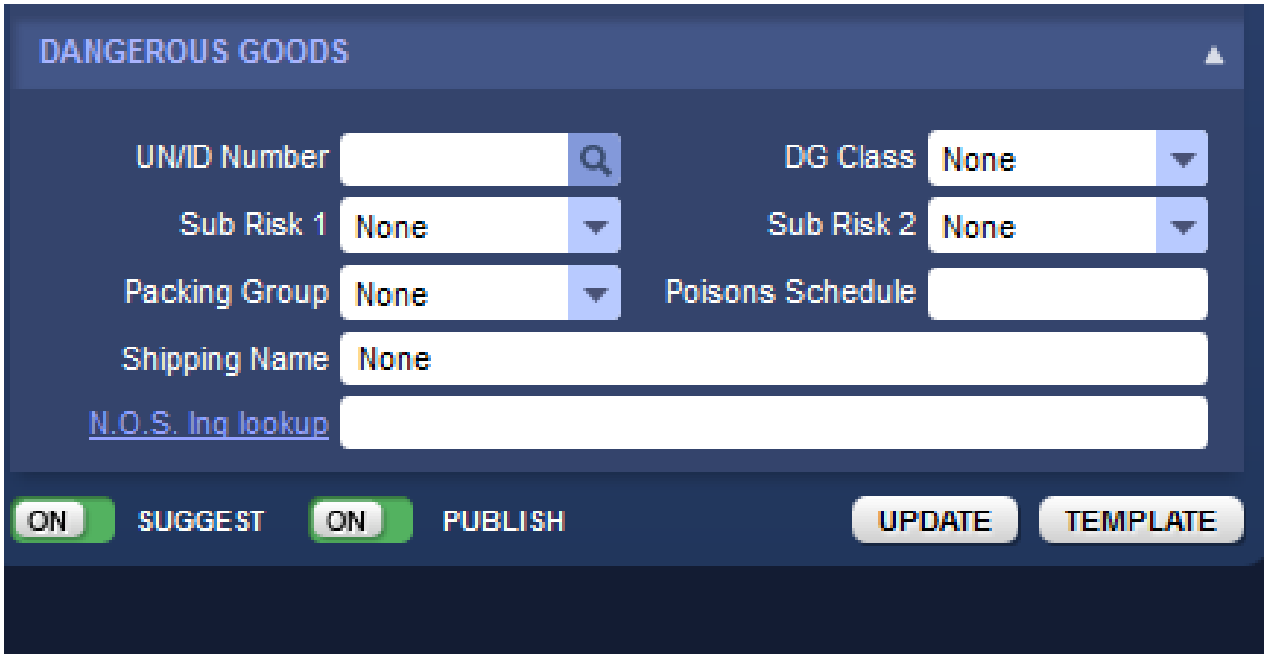
Repeat this for all ingredients!

Review Classification Tab



Make sure the checkbox for each of the ingredient's applicable Hazard Statements is selected.

Dangerous Goods Tab



If you have an SDS for the product you are entering:
Find the required information in Section 14 of the SDS.

Dangerous Goods Tab: UN Number

If you do not have an SDS for the product or mixture, you are going to require the SDS's for all components of your product/mixture. See section 14 of each of the SDS's.

Place the most ideal UN number in the UN/ID field (this should be based on the properties of the mixture…..

Hot Tip: see Wikipedia for list of UN numbers

Example:

Mixture 1	
Toluene	70%
Hydrochloric acid	10%
Water	20%

Determining UN Number This would be classified for transport as a flammable liquid (due to toluene) and a corrosive liquid (due to hydrochloric acid), therefore choose IATA classification:

Flammable liquid, corrosive, N.O.S.*

This selection has UN number UN2924, so place **2924** in the UN number field.

Dangerous Goods Tab: N.O.S. Ingredient Lookup

Determining if we need N.O.S. ING lookup:

If the proper shipping name contains **N.O.S.***, we need to list the hazardous constituents of the mixture as part of the shipping name.

Click on the blue **N.O.S. Ing lookup field** and select the hazardous components of the mixture

In Example 1 from above: toluene and hydrochloric acid would be selected by clicking the selection boxes next to them. This results in the correct shipping name:
Flammable liquid, corrosive, N.O.S.* (contains toluene, hydrochloric acid)

Dangerous Goods Tab: Packing Group

Determining Packing Group:
Look at section 14 in each of the ingredient SDS's and choose the highest hazard group:

Note:
Highest Hazard = PG I
Medium Hazard = PG II
Lowest hazard = PG III

In Example 1:
From SDS's of ingredients for this mixture, Toluene and HCl both have PG II, so select **PG II**.

Publishing a Mini SDS and Printing a Label

Once you are happy that all information is correctly entered, you can hit the **PUBLISH button** at the bottom of the Credo menu. A Mini-SDS should be rendered, showing all GHS and transport label requirements. The Mini-SDS will be stored within the Chemwatch Database.

Printing a Label:

In order to print a label for the mixture you have created, go back to the list of mixtures produced in Credo and navigate to the SDS ETC column. Hover the mouse cursor over the written page/tick icon for the appropriate mixture. A sub menu will appear with **LOC!** & **LABEL** icons. Left click on the purple **LABEL** icon. The Label Gallery will appear, whereupon you may select a suitable label for GHS compliance, or transport purposes.

Important Notes:

Finding the Mini SDS again:

Once the mini SDS is created, you can go back to the HOME module and search for the product/mixture you have just generated. Ensure the **FULL selection button** is selected. **USE THE MINI SDS search, not the GOLD SDS search** (click on MINI SDS in the 'SDS and Label' menu area so that 'MINI SDS' is highlighted).

Chemical Inventory: Placing the Mini SDS into your Room Inventory

Once you search for the product in MINI SDS and it appears – don't left click on it to bring up the SDS, but use the cursor to hover over the name and right click and you can simply copy it and then open the manifest folder of the room into which it is to be and pasted, right click and paste it into the highlighted folder, as per any other SDS searched for.

Mission complete……