How to use the Chemwatch CREDO module to make a Mini SDS and Label for a Chemical Mixture

The Chemwatch CREDO module is used to make a Mini SDS and label for a chemical mixture which currently isn't contained in the Chemwatch database. It can be used when you know the ingredient list and percentage of each ingredient which makes up the chemical mixture.

Note: You are going to require information from the SDS's of all materials in the mixture, so you need to access these (maybe print these out).

1. Turn on the **SUGGEST** and **PUBLISH** buttons at the bottom of the Credo Panel (a green colour should appear for each switch). The SUGGEST switch will suggest required GHS hazard codes, while the PUBLISH switch will place the generated the Mini-SDS into the Chemwatch database.

2. Begin entering data into the **PRODUCT IDENTIFICATION** tab, starting with the name the mixture (the product name). You also have to add a Catalogue Number.

3. Use the **MANUFACTURER'S DETAILS** tab to enter your lab details – this must be done if you wish to have a manufacturer's address on mixture labels.

4. The **CREDITE POSTERI** tab is used to enter the ingredients and percentages for the mixture. Do not hit return after typing in each ingredient and allow a list to be generated from which you will select the ingredient. Type percentage of each ingredient in the mixture. Add chemiophysical properties of the mixture if known.

5. Under the **REVIEW INGREDIENTS** tab, click on the GHS(CLP) switch if it is red, so that it turns it green (ON). Then, for each of the ingredients in your list, click on the pen and paper icon next to the ingredient and turn on the GHS(CLP) buttons in the sub-menu which pops up. Remember to do this for all ingredients.

6. You can add more hazard statements as required if you wish by selecting these under the **REVIEW CLASSIFICATION** tab.

7. **DANGEROUS GOODS** tab: This is where you are going to require information from Section 14 of the SDS for each ingredient in the mixture.
   Place the most ideal UN number in the UN/ID field (this should be based on the properties of the mixture if possible…..
   Example:

   Mixture 1

Toluene	70%
Hydrochloric acid	10%
Water	20%

   Determining UN Number (Hot Tip: see Wikipedia for list of UN numbers):
   This would be classified for transport as a flammable liquid and a corrosive liquid, therefore choose IATA classification:
   Flammable liquid, corrosive, N.O.S.*

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

Determining Packing Group:
Look at SDS's for all ingredients and choose the highest hazard group:

<u>Note:</u>

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

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

Determining if we need N.O.S. lookup:
If the proper shipping name contains N.O.S.*, we need to list as part of the shipping name the hazardous (flammable and corrosive) constituents of the mixture.
Click on the blue **N.O.S. Ing lookup field** and select toluene and hydrochloric acid by clicking the selection boxes next to them.

8. 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.

9. 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 name, **BUT USING 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.

Figure 1: You, filled with the confidence required to master the _Chemwatch Credo module_ after completing this tutorial!

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