CHEMICAL SAFETY ADVISORIES REPORT GUIDE Version 1.2

Chemwatch 2024
Melbourne, Australia

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1.0 Introduction

The **Chemical Safety Advisories Report feature** enables organisations to provide accessibility of SDS for all chemicals in a workplace or specific sites using the QR (Quick Response) code scanning with a mobile phone camera. The QR code can be placed or posted on the entrance of a work-related site or location and users at the workplace can quickly access a Chemical Safety Advisory Report based on folder location by simply scanning the respective QR Code embedded with the link. The code is linked to a specific folder(s) and a label document can be generated using the DGEN module (Document Generator for Labels). Labels can be customised using the QR Code function to meet custom requirements and use it for scanning purposes. The mobile device must have a QR code scanning app installed to use the feature to generate the report. The feature is essential for emergency situations to quickly render the chemicals list kept in the affected location; for instance, a Manifest folder site/location can be easily identified in the folder structure representing the actual site map location on the ground.

Generally, organizations or businesses will have emergency plans as part of their workplace health and safety strategy. These plans outline specific procedures for workers and other non-workers to follow in the event of an emergency. One of the most critical requirements is ensuring that a summary of the key elements of the Emergency Plan is easily accessible or prominently displayed at the workplace. This visibility helps ensure everyone knows the essential steps to take during an emergency.

When it comes to chemical safety, maintaining up-to-date Safety Data Sheets (SDS) for all hazardous chemicals on site is crucial. The SDS provides vital information about the chemicals, including their properties, health hazards, protective measures, and safety precautions. To enhance chemical safety, businesses should consider the following questions.

Are all hazardous chemicals labelled and stored in a safe manner?

- Proper labelling and storage prevent accidental misuse and ensure that chemicals are handled safely.

Is there proper equipment available for initial emergency response to a chemical incident, such as absorbent material to contain a chemical spill?

- Having the right equipment on hand can quickly mitigate the effects of a spill and prevent it from escalating.

Is suitable Personal Protective Equipment (PPE) provided for worker protection?

- Ensuring that workers have access to appropriate PPE is essential for their safety when handling hazardous chemicals.

Are workers aware of where first aid kits are kept?

- Quick access to first aid kits can make a significant difference in responding to injuries or medical emergencies.

Additional information that is pertinent to workplace health and safety includes:

- Hazard Classification
- Precautionary statements
- UN Number
- DG Classification
- Packing Group
- First Aid
- Emergency Contact

The Chemical Advisories Report feature aims at providing quick access to specific information that can help address some of the above key elements in relation to chemical safety:

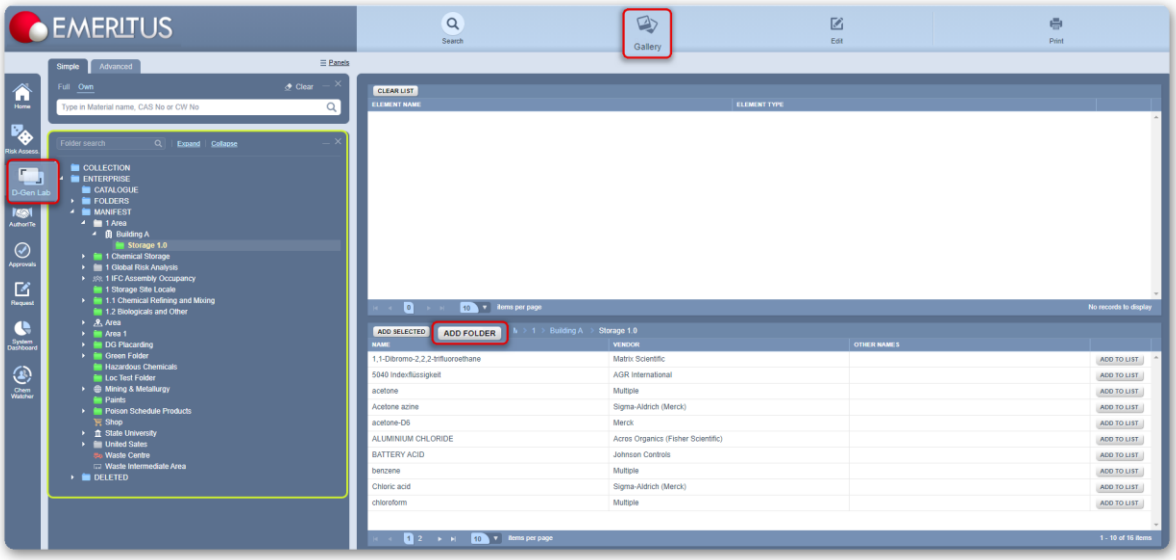
- Folder path representing the worksite
- Access to chemical list on the worksite
- Identification of hazardous chemicals stored on the worksite
- Access to SDS for the hazardous chemical product to find information related to emergency, such as PPE requirement, first aid, spill containment
- Labels

This guide covers the following topics:

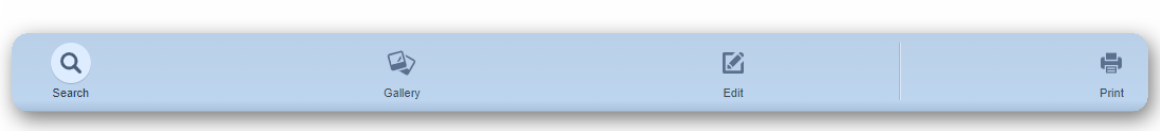
- Access to folders/locations (stie map) within the tree structure
- Access a chemical list for a folder/location
- Access to DGEN module to generate a label QR code
- Usage of the QR code to generate a chemical list based on folder/location
- Use of the Chemical Safety Advisories Report hyperlinks to display SDS

1.1 Generate a QR Code Label using the DGEN Module

The **DGEN Lab** module provides users with the ability to create label templates or scientific document templates that can be used to generate labels or documents based on datapoints assigned to the templates.



This module contains a toolbar at the top layer of the user interface to allow searching for materials, selecting a template to use from the gallery or editing existing templates and generating labels to print, download or share.

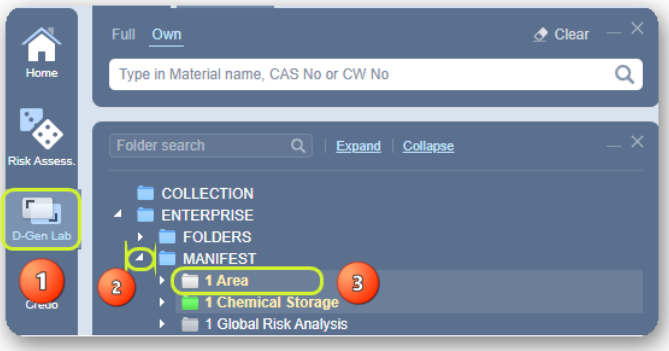


Button	Feature	Description
	Search	Search for materials. Note that materials in DGEN module QR code generation link are not used in this search mode and hence the search mode is not relevant in this context as the folder location is applicable to generate the code label document.
	Gallery	Contains three tabs, namely, Default, User Defined, Create New Template.
	Edit	Edit and save label template to database or disk.
	Print	Fill in data based on selected material and a print label.

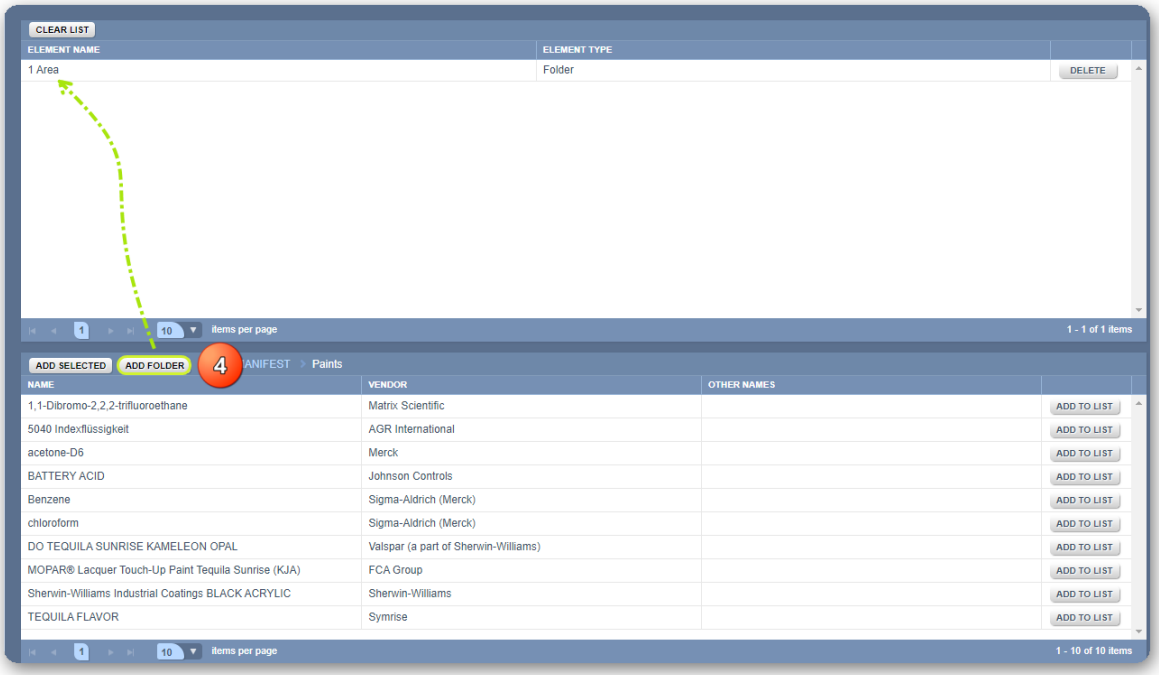
The exercise below illustrates how to create a custom label that incorporates the QR code that can be used for scanning purposes to render the chemical list from a selected folder or location. The following steps show how to use the DGEN Lab module to generate a QR code in a Label.

Steps: Generate a QR code Label

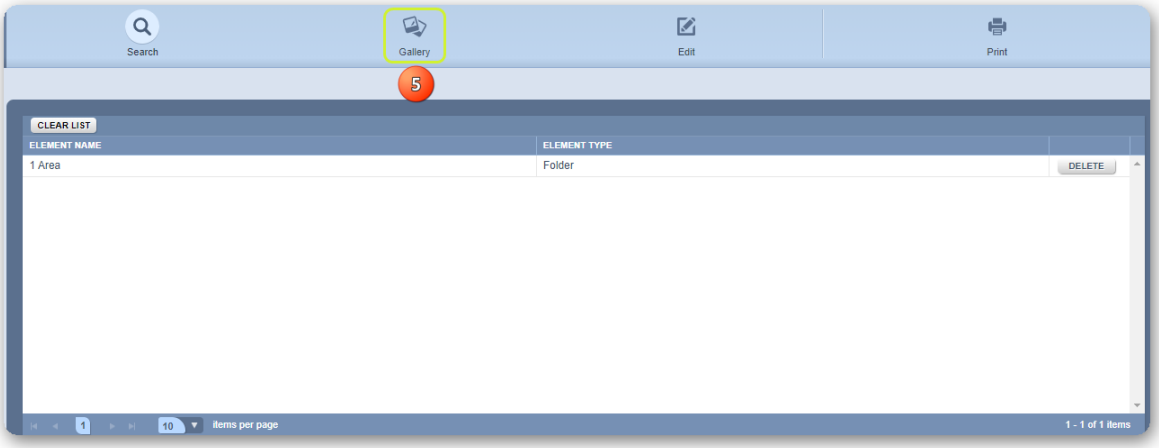
1. Click the **DGEN module** butto .
2. **Expan** Manifest Directory nodes to view the folder locations
3. Click the **Folder Nam** where materials are located. Take note that the chemical list grid defaults to Name of the material(s) and Add to List button for each row.



4. Click the **Add Folder** button ADD FOLDER to add the selected folder name. Note that more folders may be added by selecting multiple folders you wish to add to the element list.



5. Click the **Gallery** butto on the toolbar above the element list.

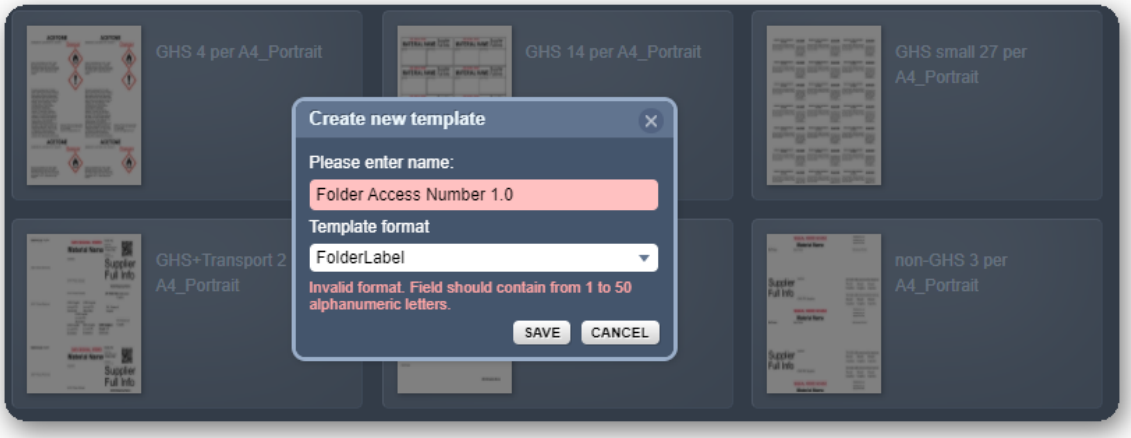


Note that the folder name(s) displayed in the element list pane will be automatically available to use when generating the chemical inventory list information after the QR code is scanned.

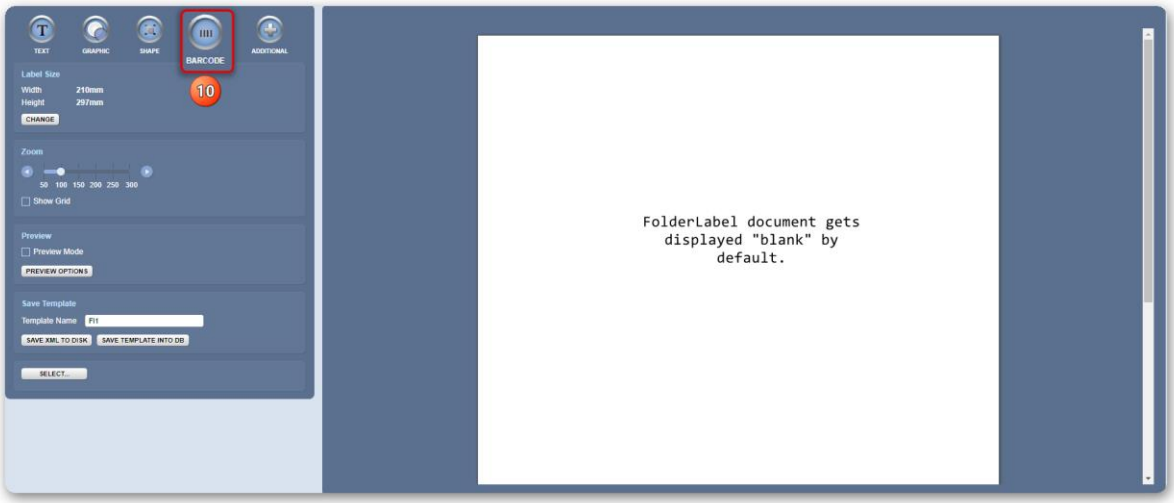
6. Click the **Create New Template"** tab.

7. Type the **Folder Label** name in the free text field.
8. Select the template format "**FolderLabel**" from the drop-down menu.

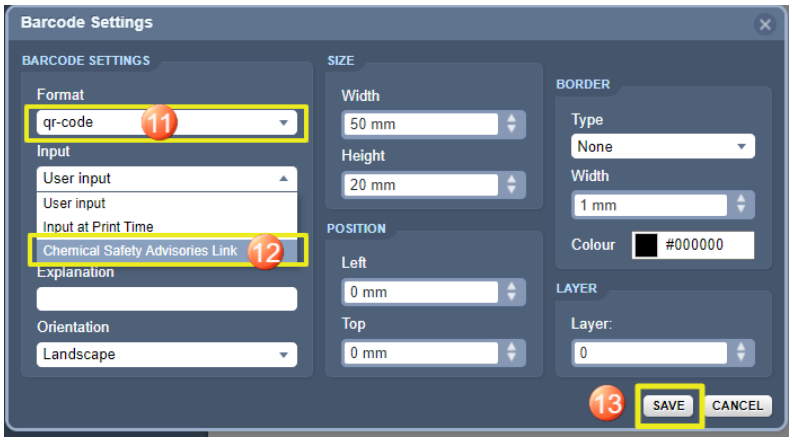
If the name of the template does not meet the naming criteria, a message will display for the invalid template format. All default Chemwatch system label templates cannot be used to create a QR code label document; only the FolderLabel document is applicable.



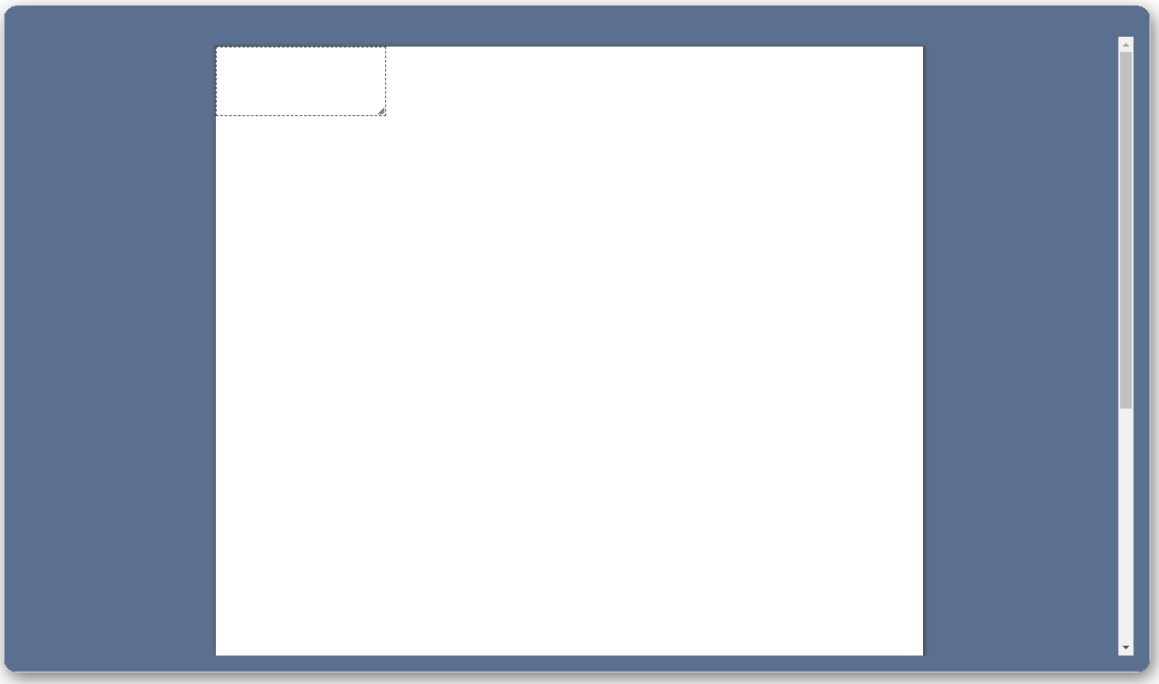
9. Click the **Save** button.
10. Select the **Barcode** button to access the barcode related settings options.



11. Click the barcode format drop-down menu and select **QR code**.
12. Select the **Chemical Safety Advisories Link** option from the Input drop-down menu.

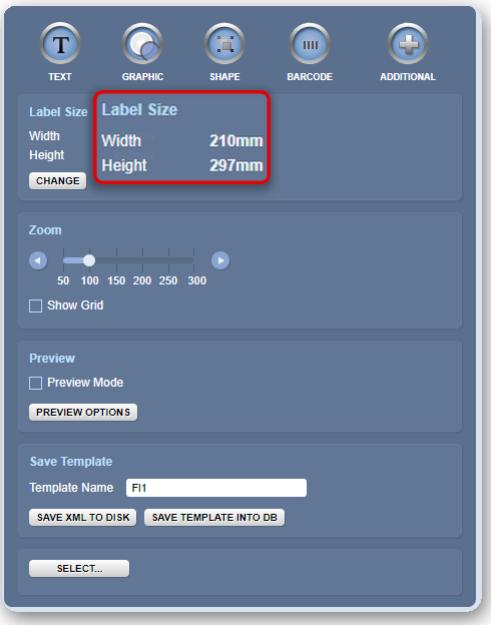


The label field gets generated on the blank document at the top left corner.



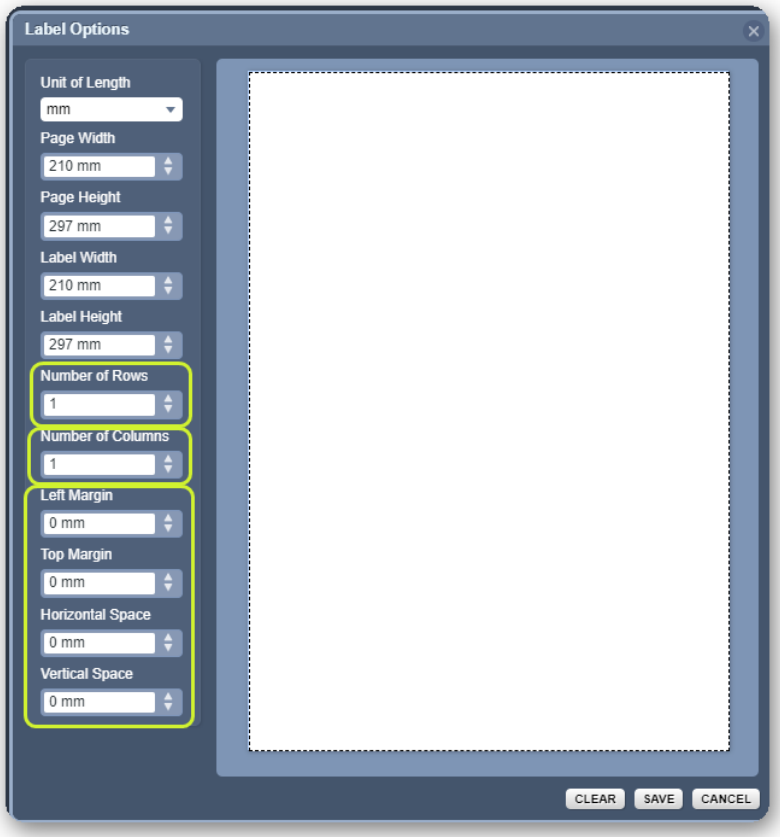
Note that the label size defaults to an A4 size page with these dimensions:

- [W=210mm, H=297mm]

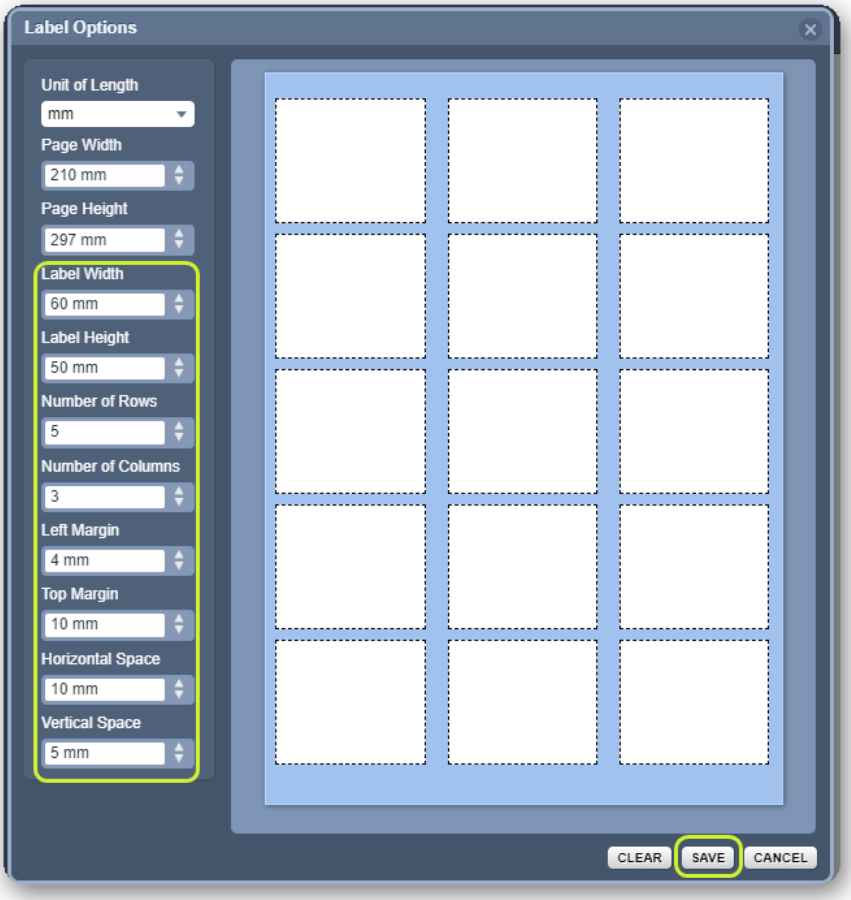


In this worked example, multiple labels and smaller label sizes are employed.

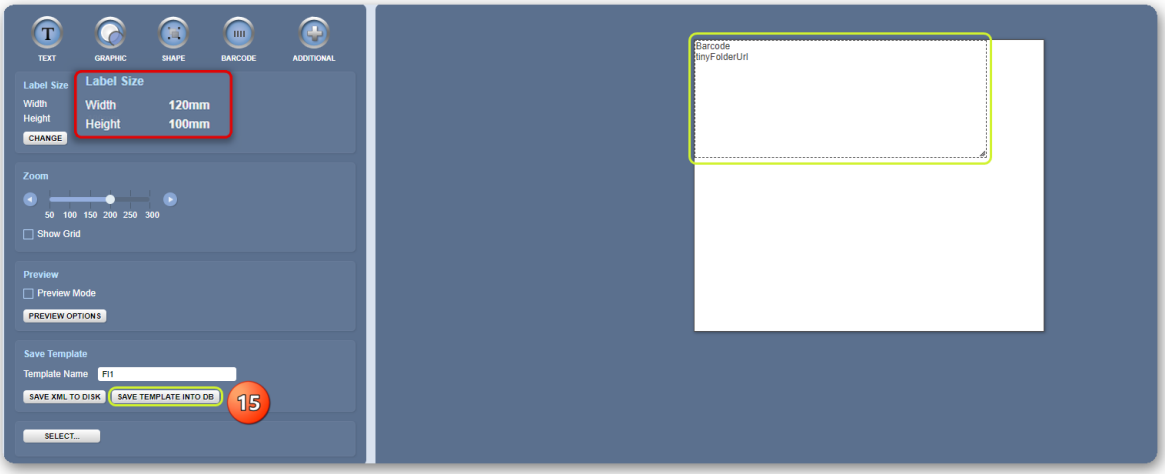
13. Click on the **Change** button to change the label size and the number of labels in a single page.



14. Set the respective **Label Dimensions** for the number of rows and columns to fit the page as shown in the label options image below.

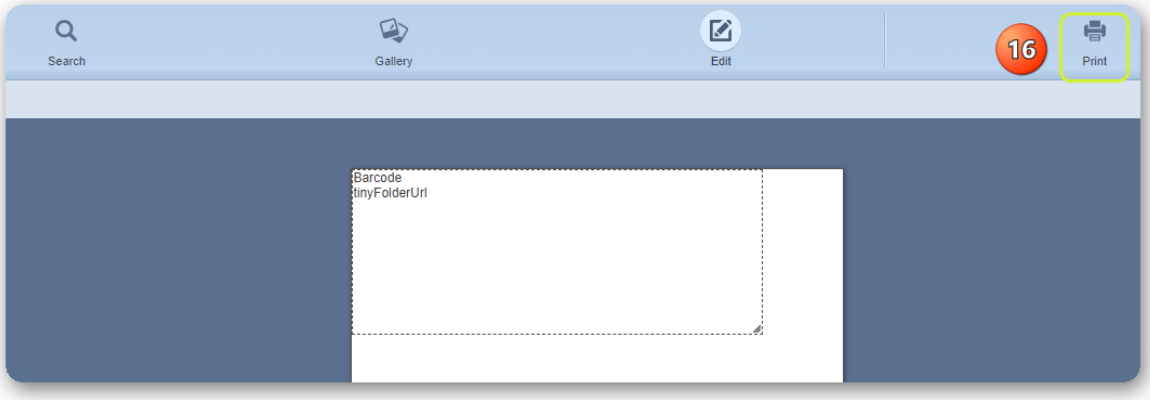


Label size is automatically adjusted according to label's dimension settings.

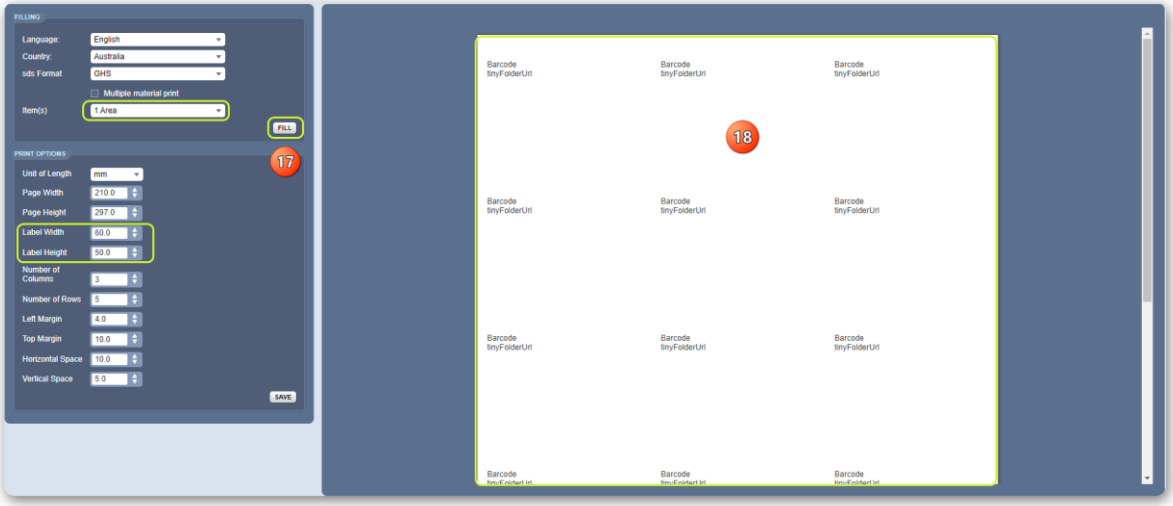


There are other label options such as inputting a company logo or any image, specific user input text. Note that in this exercise, the folderlabel is used as it is.

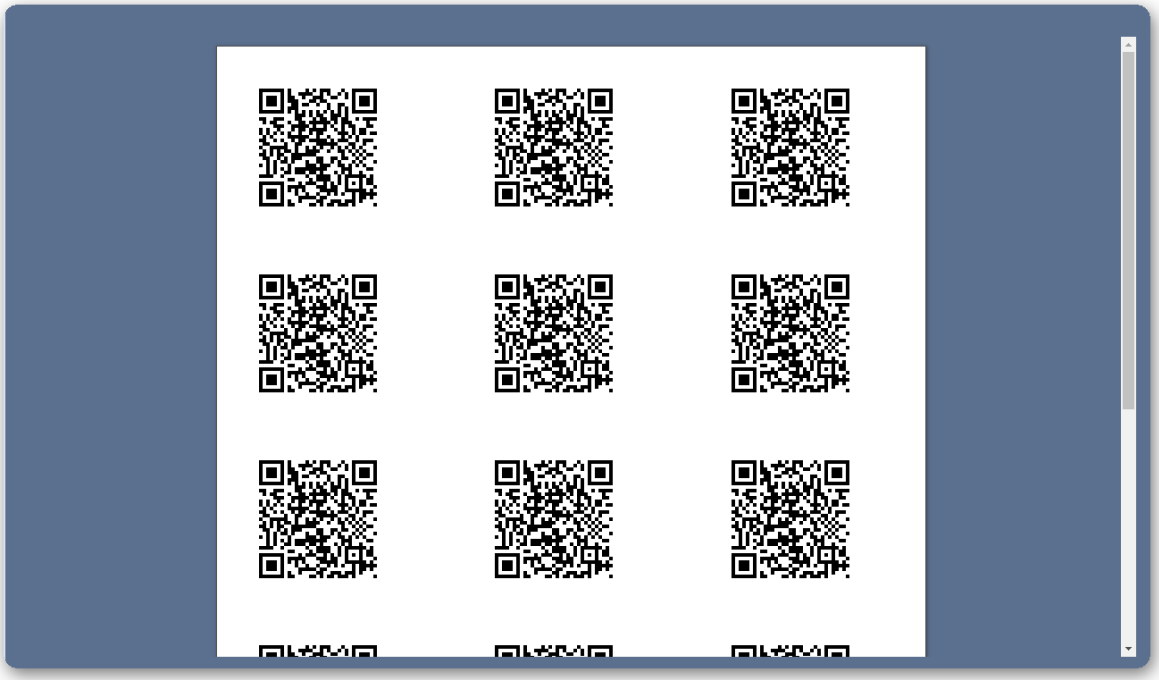
15. Click the **Save** Template into DB button.
16. Click the **Print** button to open the label print options.



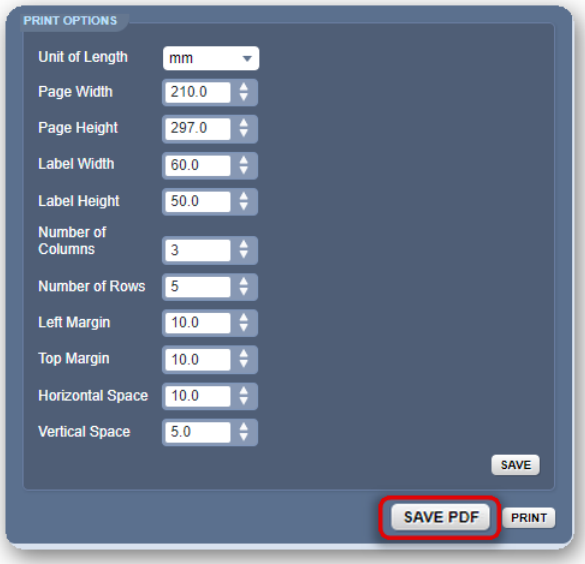
17. Click the **Fill** button.



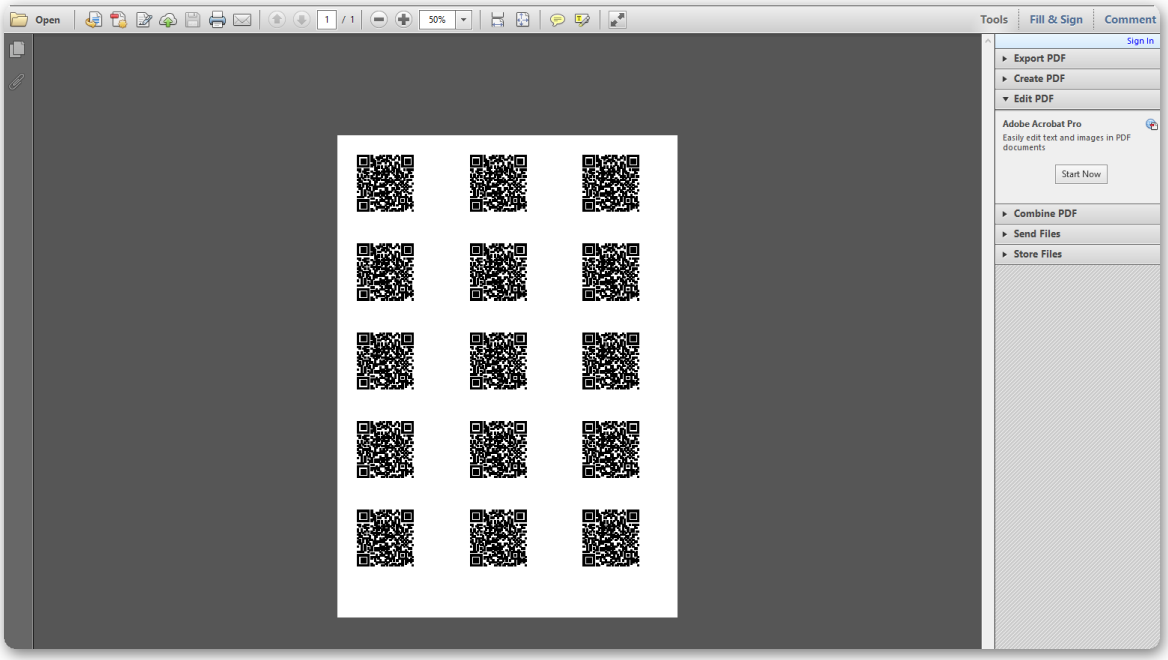
18. **Confirm filled labels** on the landscape page.



19. Click the **Save PDF** button from the print options to save QR code labels into an external drive or desktop.



20. Open and **print QR code label** PDF document.



The next topic covers how to use a mobile device to download and scan the QR code generated from the Chemwatch web application based on the selected folder or location.

1.2 Generate a Chemical Safety Advisories Report

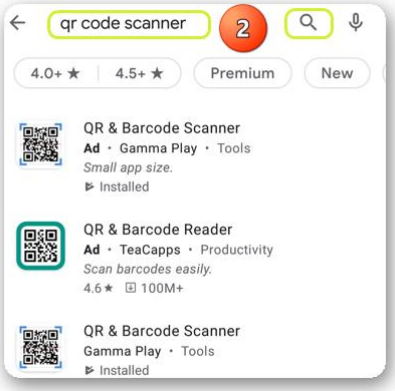
The Chemical Safey Advisories report is generated from the rendered QR Code labels from the Chemwatch web application. To generate this report, download a QR Code scanner app from the App store (iOS) or Google Play (Android) .

1.2.1 Install QR Code Scanner App and Scan QR Code Label

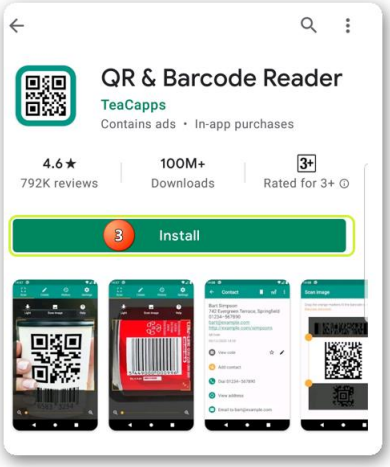
The steps below show how to generate a QR code scanner app (android) and scanning the QR code label to generate the Chemical Safety Advisories report.

Steps: Download and scan the QR code label generated from the web application

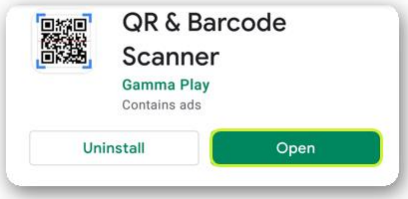
1. Click the **Google Play** (Android) or App Store (iOS) from your mobile device.
2. Search for **QR code scanner and barcode reader** app.



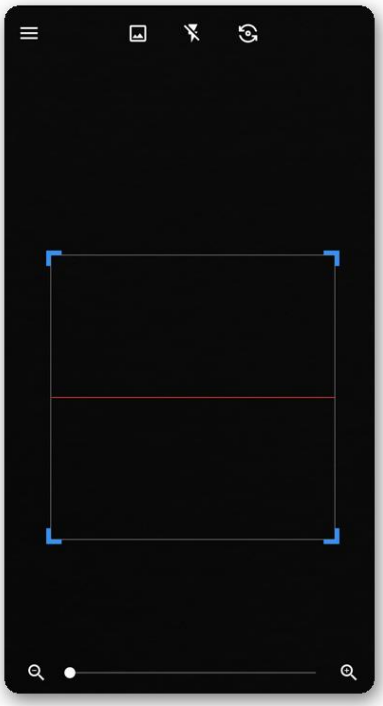
3. **Download (Install)** the app.



4. Open the **QR Code Scanner**.



5. Scan the QR code from the saved or printed label (PDF).



6. Click on the generated Chemwatch Safety Advisories Link from the scan app.
7. Click the Document Link on the appropriate cell alongside the Cat Name to render the SDS.

CHEMICAL SAFETY ADVISORIES

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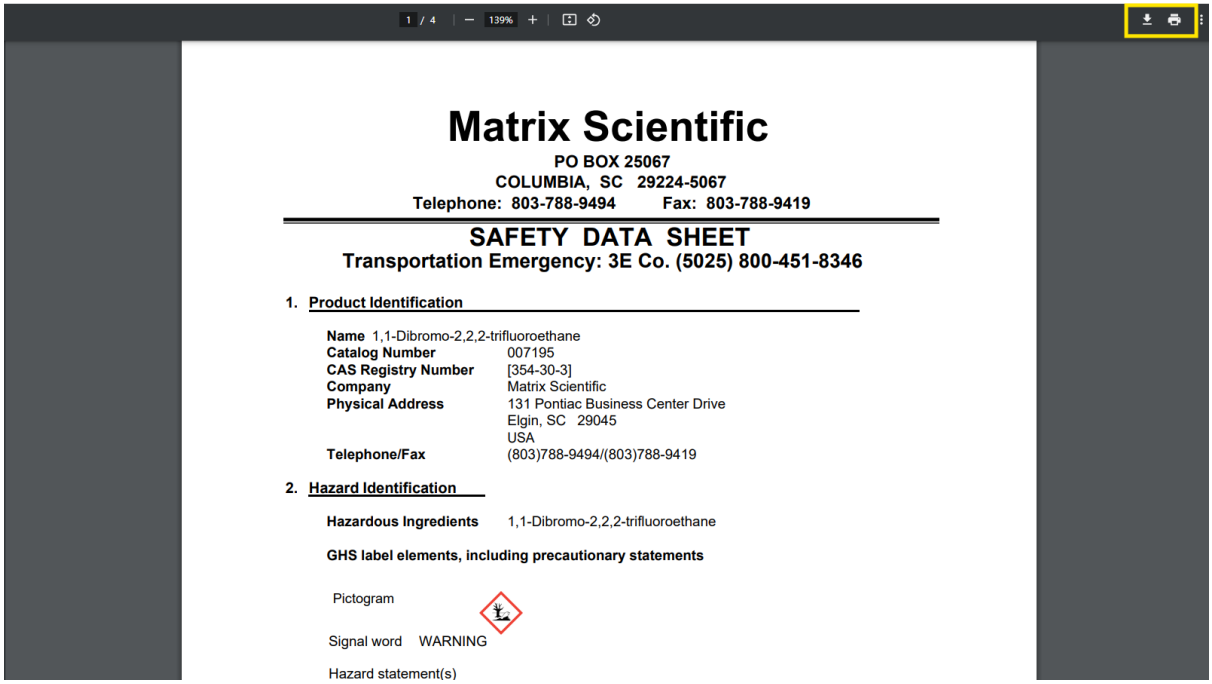
Hazard	CAT Name	CAS Number	Vendor	Hazard Codes	UN	DGC	PKG	Document
Moderate	1,1-Dibromo-2,2,2-trifluoroethane	354-30-3	Matrix Scientific	H302, H402, H420	None	None	None	Link
High	acetone	67-64-1	3M	AUH066, H225, H319, H336	1090	3	II	Link
High	ACETONE	67-64-1	Concept Paints (a part of Chilmix)	AUH066, H225, H319, H336	1090	3	II	Link
High	ACETONE	67-64-1	Merck Life Science (Sigma-Aldrich)	AUH066, H225, H319, H336	1090	3	II	Link
Moderate	Acetone azine	627-70-3	Merck Life Science (Sigma-Aldrich)	H226, H302, H317	1993	3	III	Link
High	acetone-D6	666-52-4	Merck	EUH066, H225	1090	3	II	Link
Minimum	ALUMINIUM CHLORIDE	7446-70-0	Acros Organics (Fisher Scientific)	non-hazardous	None	None	None	Link
High	BACTIVE Hand Sanitiser		PRNZ Ltd Trading as Healthcare Logistics	H225, H319	1993	3	II	Link

8. Click the Print or Download button to print SDS.



Matrix Scientific

PO BOX 25067
COLUMBIA, SC 29224-5067
Telephone: 803-788-9494 Fax: 803-788-9419

SAFETY DATA SHEET
Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name 1,1-Dibromo-2,2,2-trifluoroethane
Catalog Number 007195
CAS Registry Number [354-30-3]
Company Matrix Scientific
Physical Address 131 Pontiac Business Center Drive
Elgin, SC 29045
USA
Telephone/Fax (803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients 1,1-Dibromo-2,2,2-trifluoroethane

GHS label elements, including precautionary statements

Pictogram

Signal word WARNING

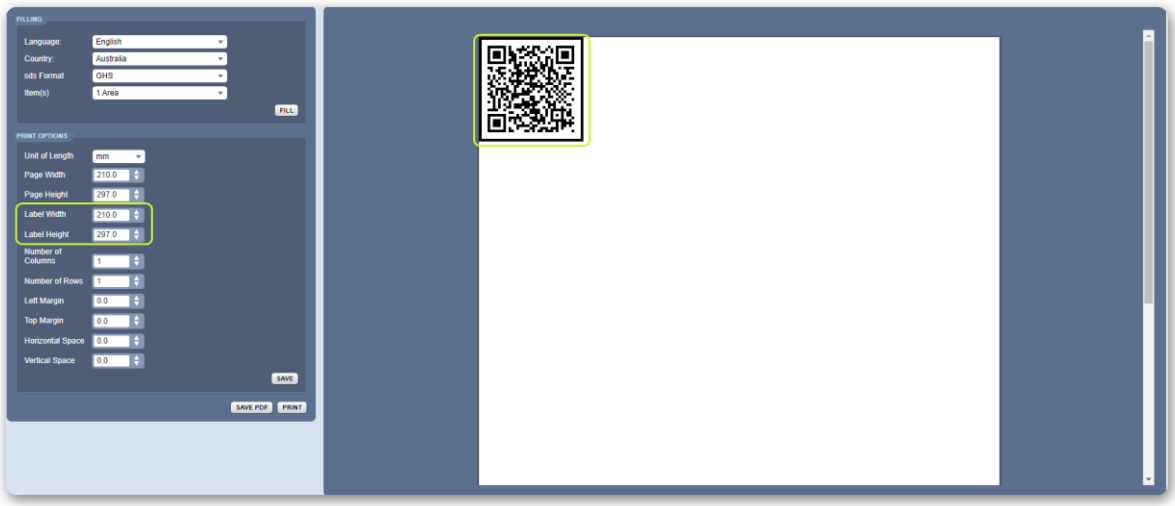
Hazard statement(s)

1.3 Custom QR Code Label and Generate Chemical Safety Advisories Report

The QR code label can be customised to befit organisational requirements. The following information will be used to create a custom QR code label using some default datapoints available in DGEN module.

Label Settings	DGEN module Datapoint Field
Barcode settings - Format	QR code
Input	Chemical Safety Advisories Report
Orientation	Landscape
Size	Default
Position	Left
Barcode Type	IbiSolidLine
Width	1mm
Layer	0

Filling the label template will display the respective QR code based on the current position on the landscape page and will also show the available area of the document where other information/images can be placed.



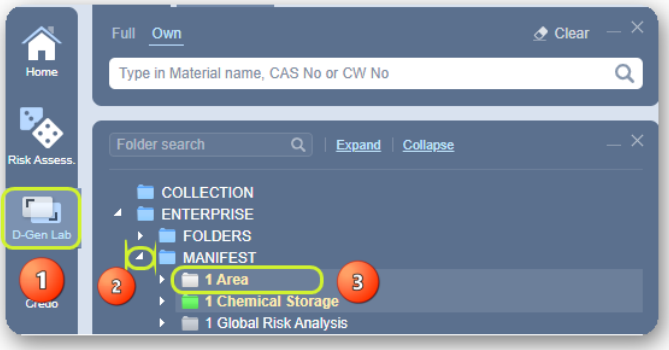
1.3.1 Customise QR Code Label

The following steps illustrate how to further custom the label document to show following information and images.

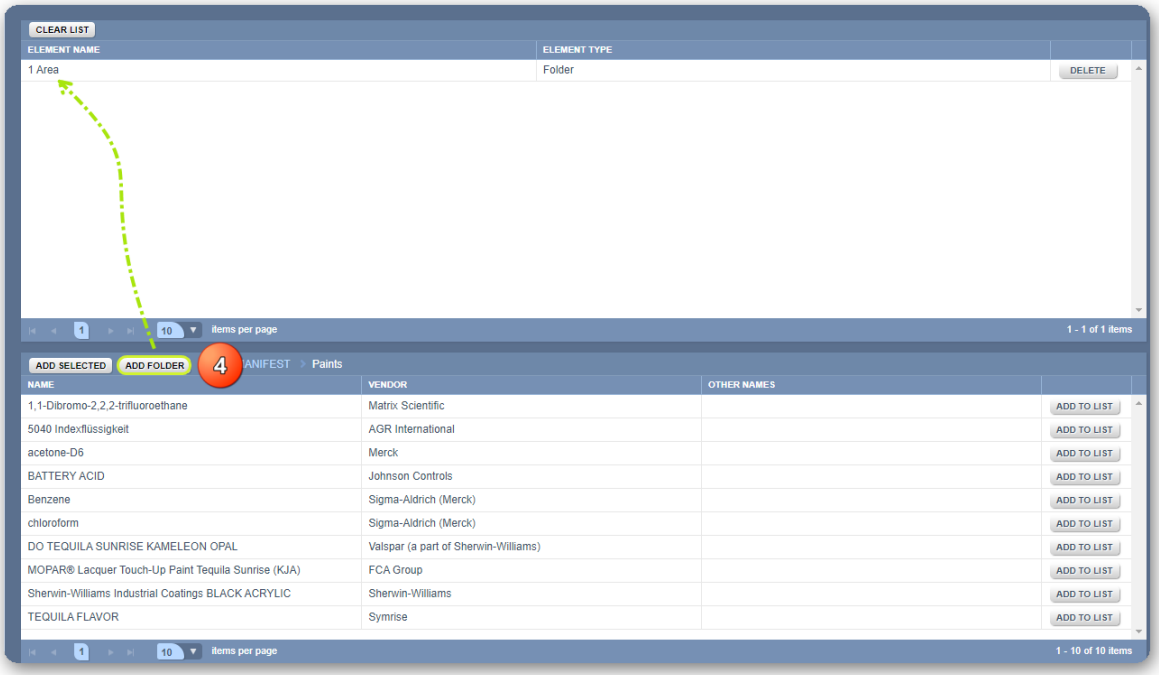
Label Settings	DGEN module Datapoint Field
User text	Company
User text	Chemwatch
User text	Chemical Safety Advisories
User text	To view Hazard Information for these premises, scan the QR code image.
User text	Contact details Phone: +61 3 95763 3100 Emai: helpdesk@chemwatch.net Website: www.chemwatch.net
Graphic	User Defined image selection
Graphic	User Defined image selection

Steps: Generate a Customised QR code label

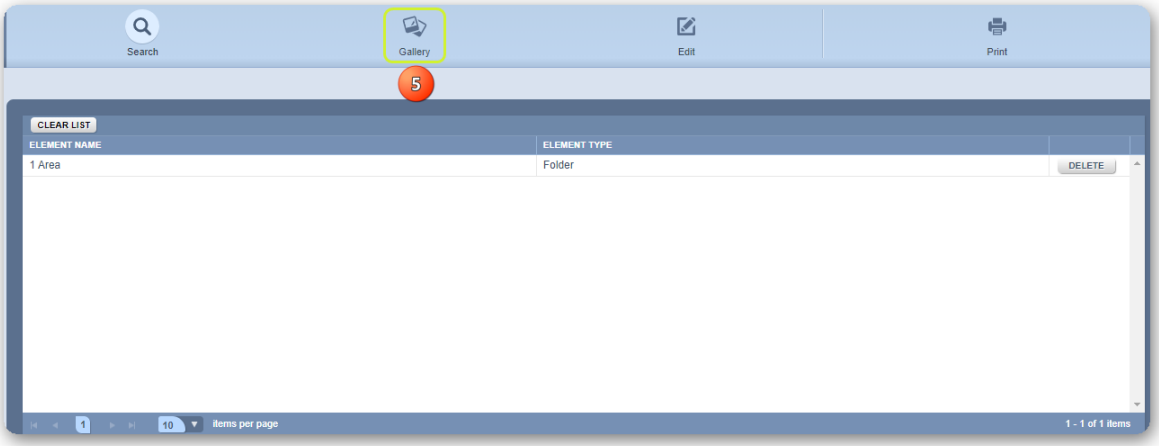
1. Click the **DGEN module butt** .
2. **Expan** Manifest Directory nodes to view the folder locations.
3. Click the **Folder Nam** where materials are located. Take note that the chemical list grid defaults to Name of the material(s) and Add to List button for each row.



4. Click the **Add Folder** button  to add the selected folder name. Note that more folders can be added to the element list window by selecting multiple folders you wish to add.



5. Click the **Gallery** button  on the toolbar above the element list.

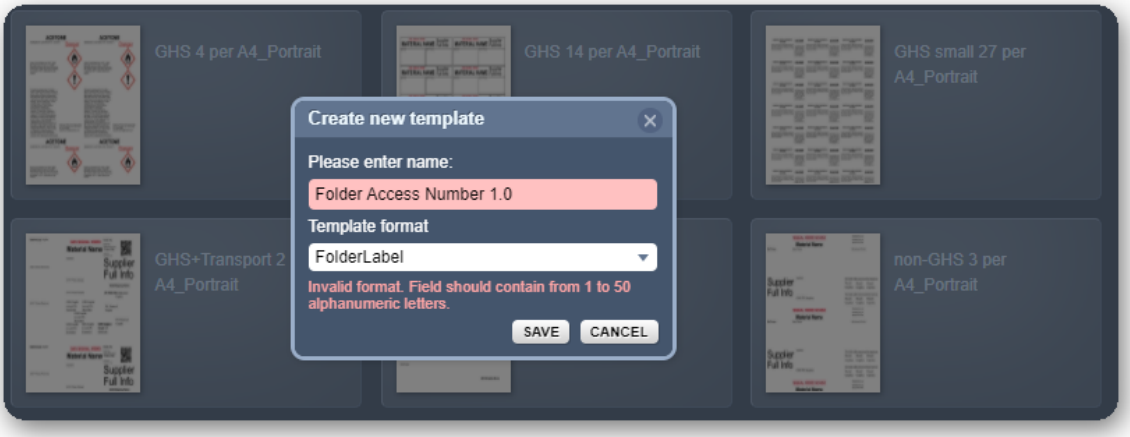


Any folder name displayed in the element list pane will be available for use when generating the chemical inventory list information after scanning the QR Code.

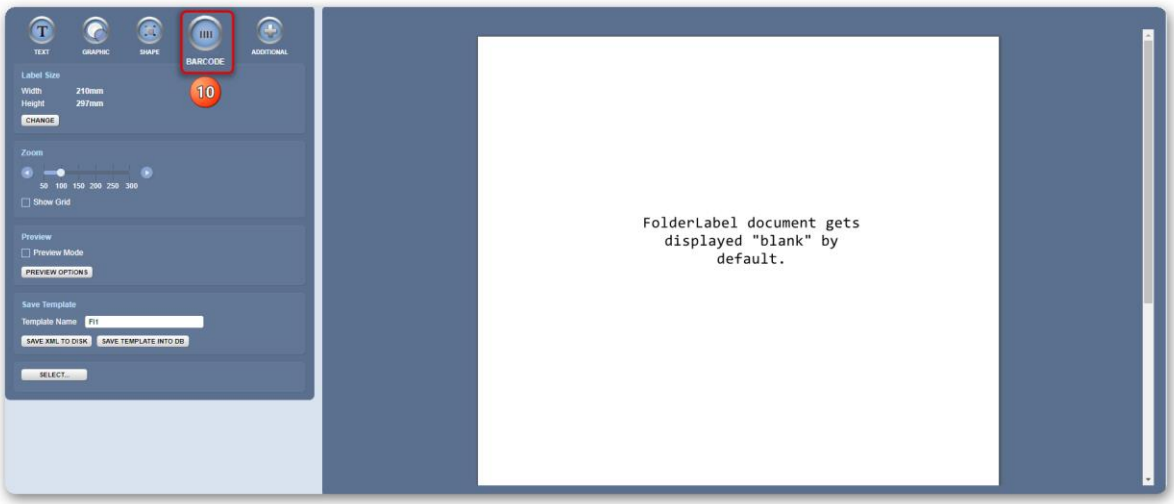
6. Click the **Create New Template"** tab.

7. Type the **Folder Label** name in the free text field.
8. Select the template format "**FolderLabel**" from the drop-down menu.

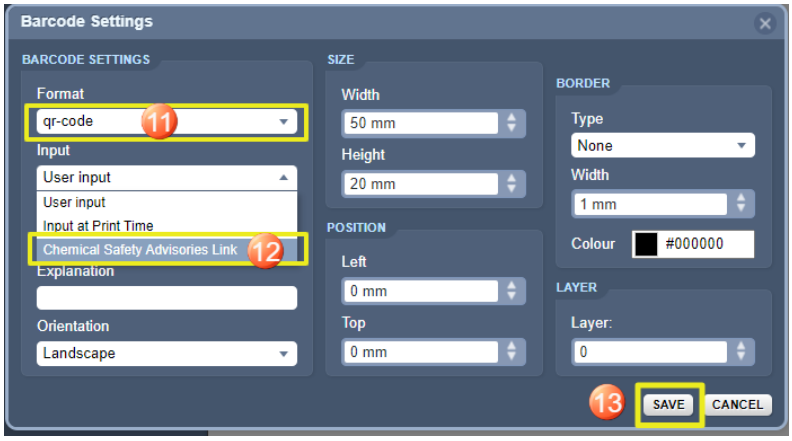
If the name of the template does not meet the naming criteria, a message for the invalid format will show. All default Chemwatch system label templates cannot be used to create a QR code label document; only the Folderlabel template format document is applicable.



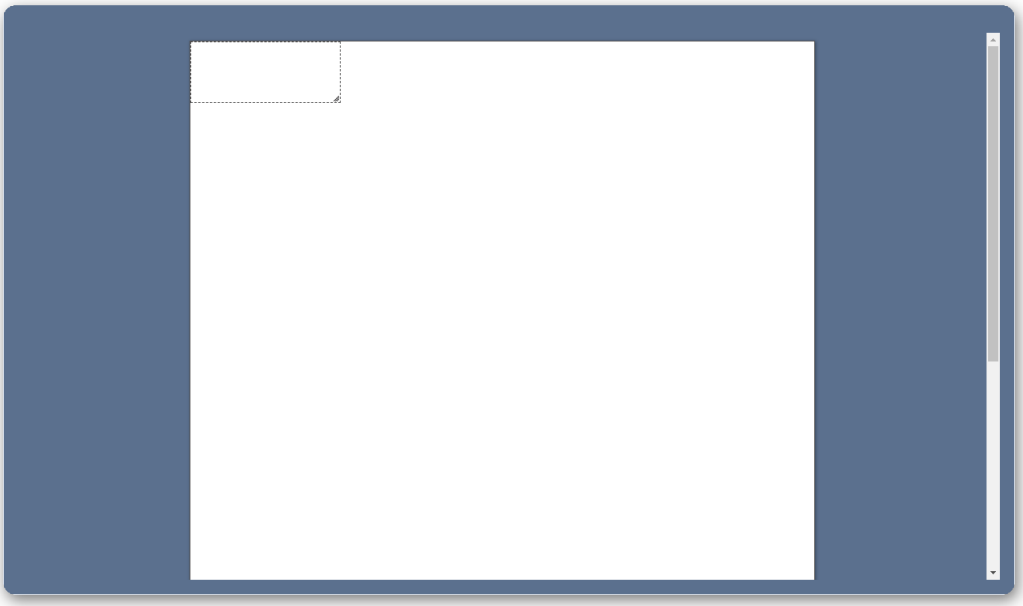
9. Click the **Save** button.
10. Select the **Barcode** button to access the barcode related settings options.



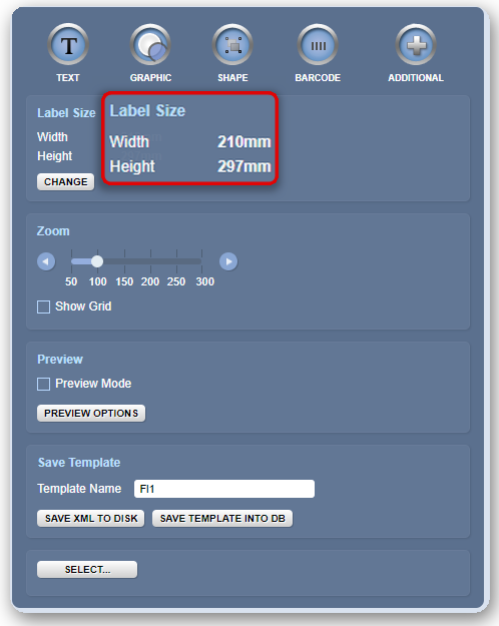
11. Click the barcode format drop-down menu and select **QR code**.
12. Select the **Chemical Safety Advisories Link** option from the Input drop-down menu.



The label field gets generated on the blank document at the top left corner.

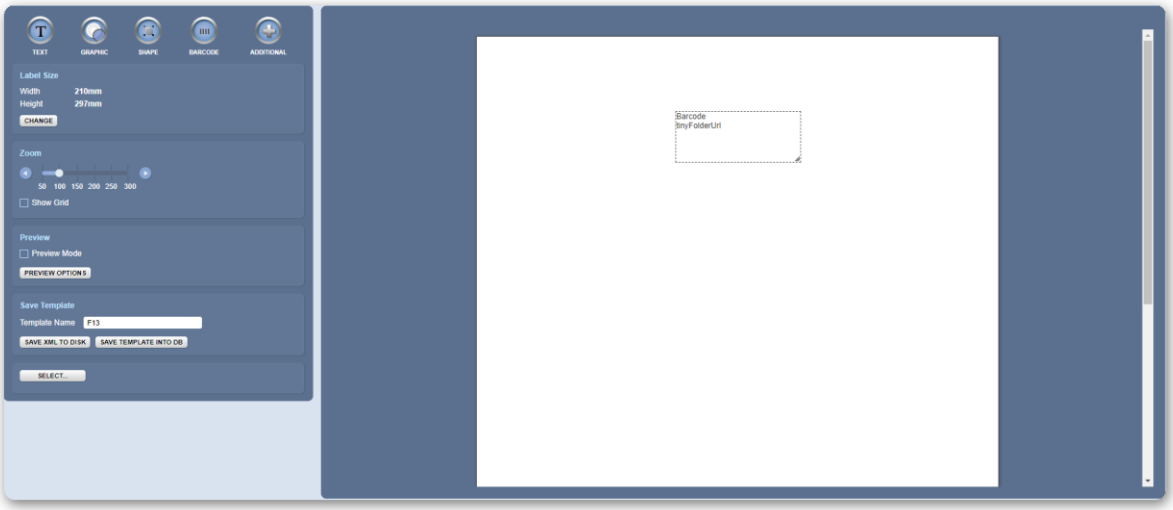


Note that the label size defaults to an A4 size page with these dimensions [W=210mm, H=297mm].

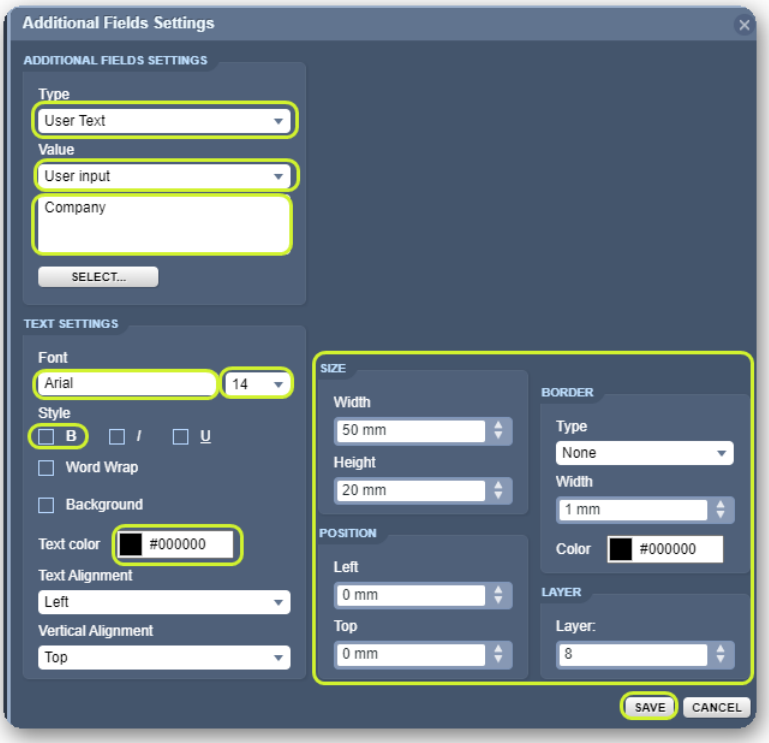


In this worked example, multiple labels and smaller label sizes are employed.

13. **Drag the QR code** field to desired position on the document.



14. Click the **Additional** button  on the label tools panel.
15. Select the **User Text** option from the drop-down menu.
16. Set the value "**User input**".
17. Type the information in the text field.
18. Use the **text settings** to choose the font, size, style and maintain default text alignment.
19. Maintain the **default border position, layer, colour and size**. You may adjust these settings using the field boundary markers and position the field by dragging to the desired position.
20. Click the **Save** button.

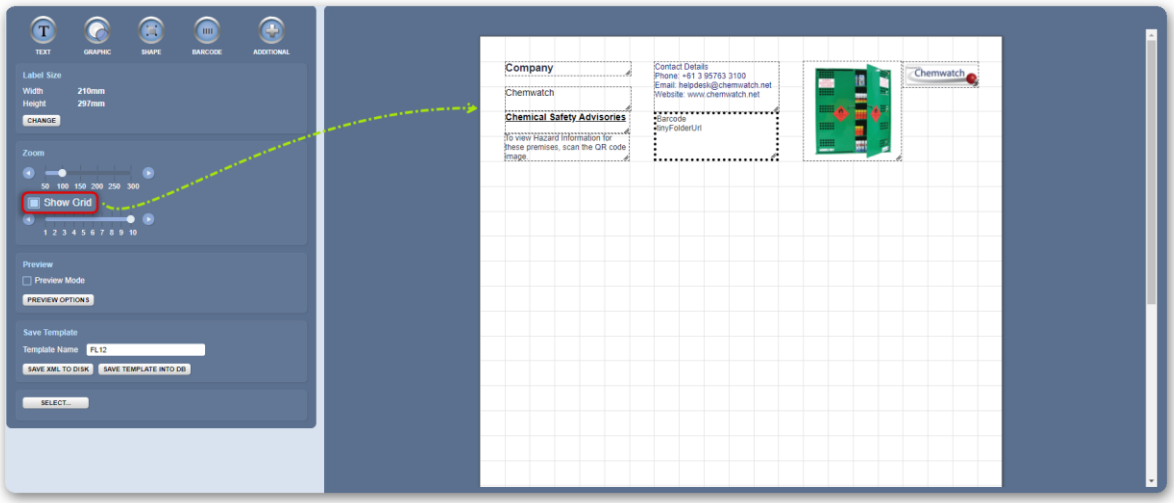


21. Repeat step 20 above for the other user text fields provided in this worked example:

Label Settings	DGEN module Datapoint Field
User text	Company
User text	Chemwatch
User text	Chemical Safety Advisories
User text	To view Hazard Information for these premises, scan the QR code image.
User text	Contact details Phone: +61 3 95763 3100 Emai: helpdesk@chemwatch.net Website: www.chemwatch.net
Graphic	User Defined image selection
Graphic	User Defined image selection

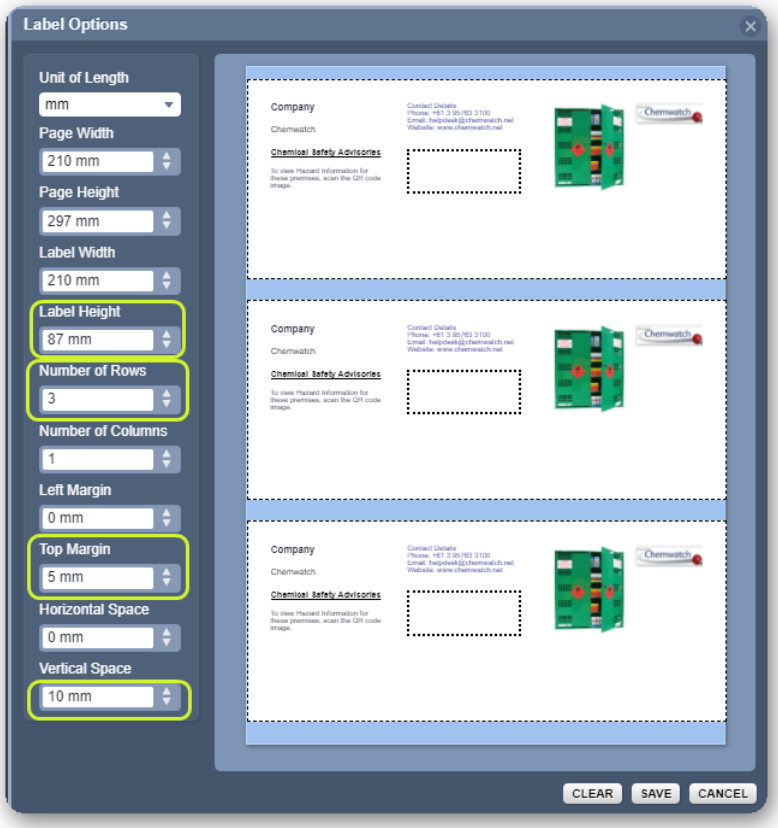
22. Click the **Graphic Settings** button on the tools panel.
23. Click the Graphic type "**User Defined**".
24. Select the "I**mage** field" to upload your image.
25. Click the **Save** button.
26. Repeat steps 22-25 to add a **Logo** image and position it in the desired area.

27. Select the **Show grid checkbox** on the tools panel to make sure that your template is aligned appropriately as shown below.



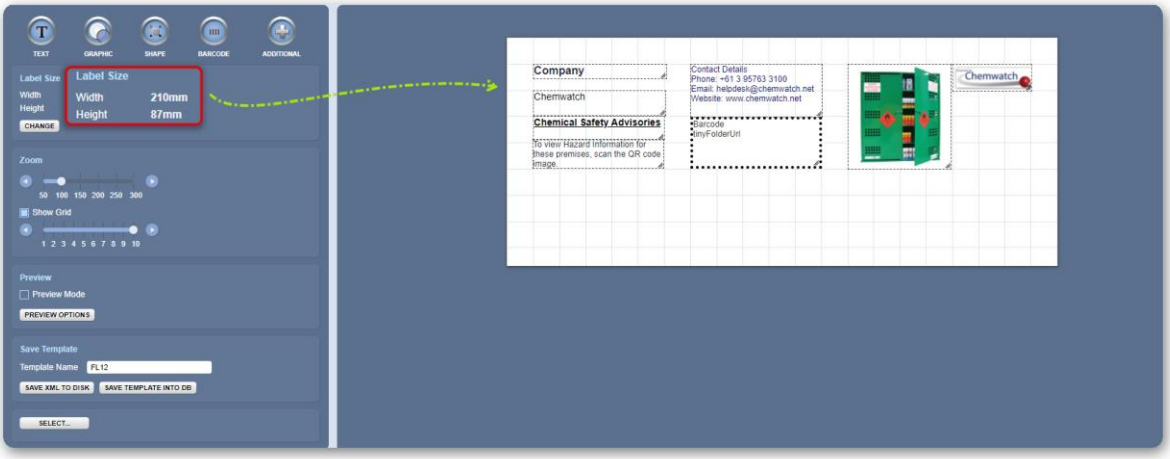
28. Click the "**Save Template into DB**" button to save your work into the database.
29. Click on the **Change** button to change the label size and the number of labels in a single page.

30. Set the respective **Label Dimensions** for the number of rows and columns to fit the page as shown in the label options image below.

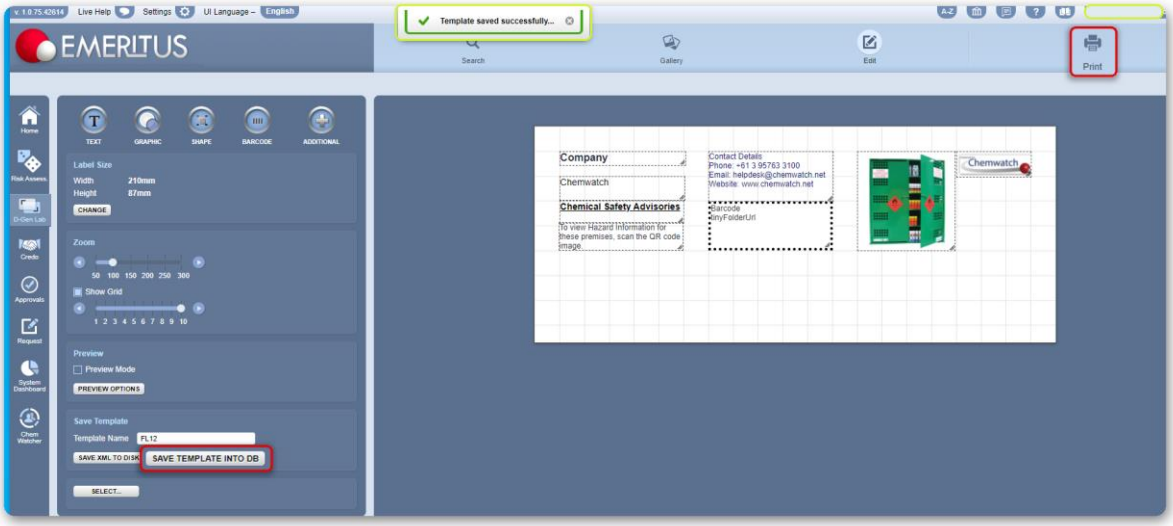


31. Click the **Save** button.

Label size is automatically adjusted according to label's dimension settings.



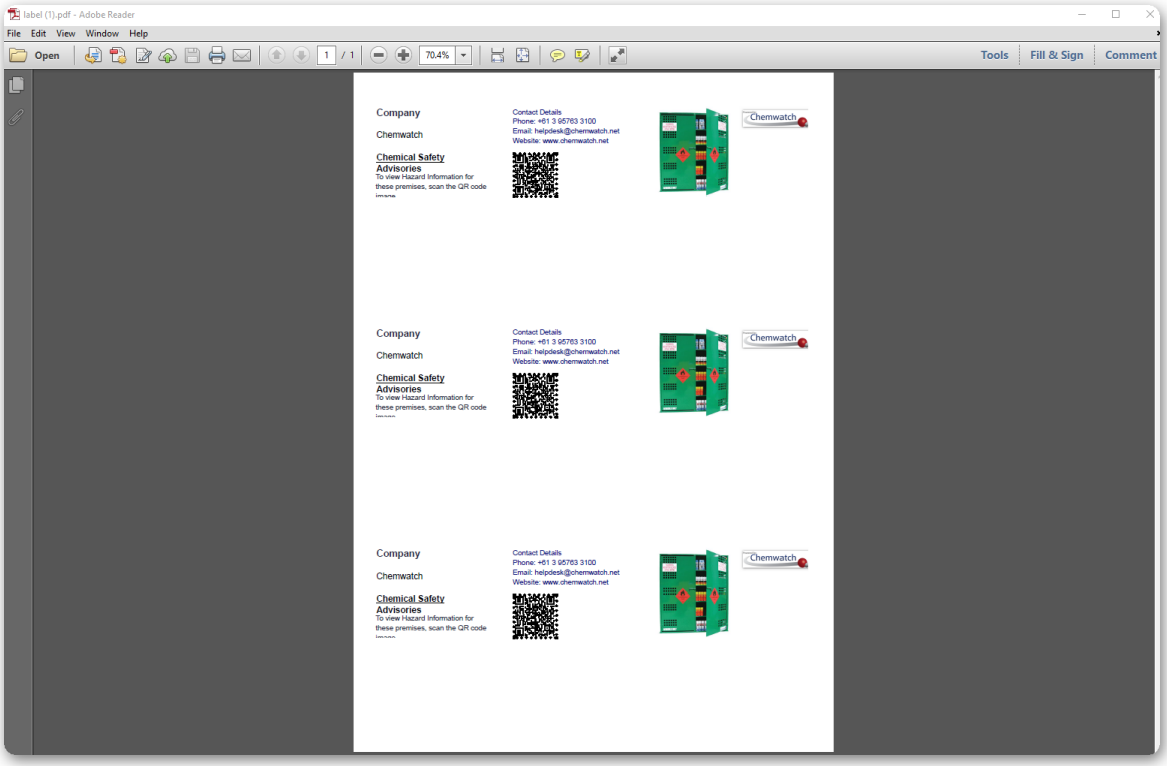
32. Click the **Save** Template into DB (database) button. Message confirming successful operation gets displayed.
33. Click the **Print** button to open the label print options.



34. Click the **Fill** button.

35. Confirm filled label fields, especially the **QR Code** field on the landscape page.
36. Click the **Save PDF** button from the print options to save QR Code labels into an external drive or desktop.

37. Open and **print QR Code Label** PDF document.

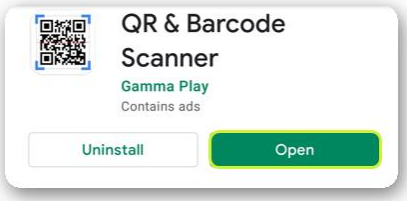


1.3.2 Generate the Chemical Safety Advisories Report

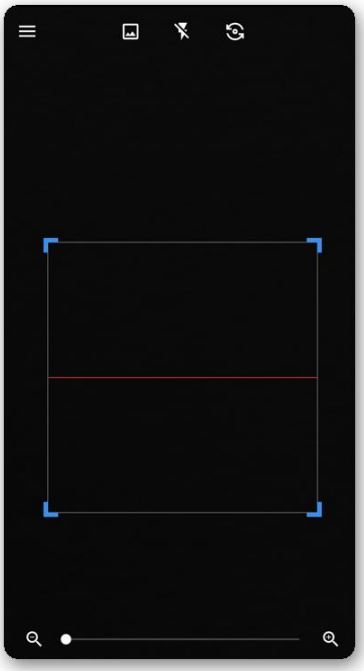
Section 1.2.1 of this guide provides the steps to install the QR Code Scanner app from your device and use it to generate the Chemical Safety Advisories Report. If you have already installed the app, follow the steps below.

Steps: Generate the Chemical Safety Advisories Report

1. Open the **QR Code Scanner**.



2. **Scan the QR code** from the saved or printed label (PDF).



3. Click on the generated **Chemwatch Safety Advisories Link** from the scanning app.
4. Click the **Document Link** in the Document column cell alongside the Cat Name to render the SDS on screen.

CHEMICAL SAFETY ADVISORIES

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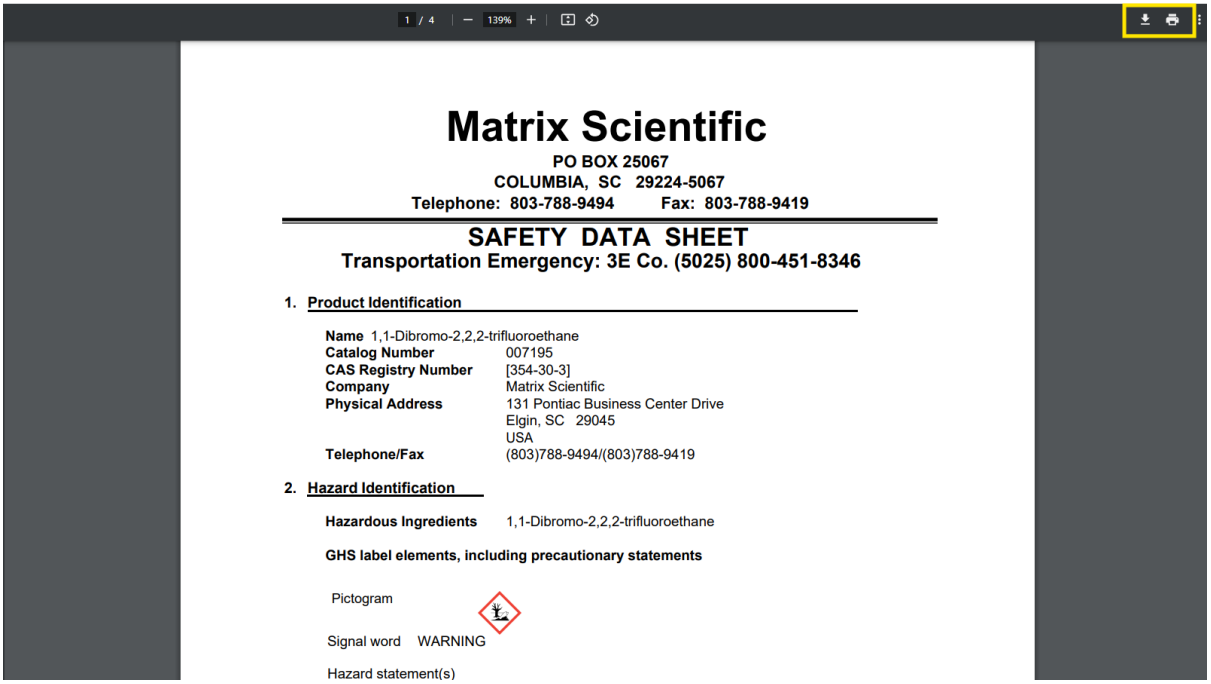
Hazard	CAT Name	CAS Number	Vendor	Hazard Codes	UN	DGC	PKG	Document
Moderate	1,1-Dibromo-2,2,2-trifluoroethane	354-30-3	Matrix Scientific	H302, H402, H420	None	None	None	Link
High	acetone	67-64-1	3M	AUH066, H225, H319, H336	1090	3	II	Link
High	ACETONE	67-64-1	Concept Paints (a part of Chilmix)	AUH066, H225, H319, H336	1090	3	II	Link
High	ACETONE	67-64-1	Merck Life Science (Sigma-Aldrich)	AUH066, H225, H319, H336	1090	3	II	Link
Moderate	Acetone azine	627-70-3	Merck Life Science (Sigma-Aldrich)	H226, H302, H317	1993	3	III	Link
High	acetone-D6	666-52-4	Merck	EUH066, H225	1090	3	II	Link
Minimum	ALUMINIUM CHLORIDE	7446-70-0	Acros Organics (Fisher Scientific)	non-hazardous	None	None	None	Link
High	BACTIVE Hand Sanitiser		PRNZ Ltd Trading as Healthcare Logistics	H225, H319	1993	3	II	Link

5. Click the **Print** or Download button to print SDS.



Matrix Scientific

PO BOX 25067
COLUMBIA, SC 29224-5067
Telephone: 803-788-9494 Fax: 803-788-9419

SAFETY DATA SHEET

Transportation Emergency: 3E Co. (5025) 800-451-8346

1. Product Identification

Name 1,1-Dibromo-2,2,2-trifluoroethane
Catalog Number 007195
CAS Registry Number [354-30-3]
Company Matrix Scientific
Physical Address 131 Pontiac Business Center Drive
Elgin, SC 29045
USA
Telephone/Fax (803)788-9494/(803)788-9419

2. Hazard Identification

Hazardous Ingredients 1,1-Dibromo-2,2,2-trifluoroethane

GHS label elements, including precautionary statements

Pictogram

Signal word WARNING

Hazard statement(s)

For more information, contact us: email to helpdesk@chemwatch.net.

IT'S NOT THE HAZARD
IT'S THE RISK!

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