Powered by Chemwatch

QUERY BUILDER & REPORT GENERATOR USER GUIDE

Version 2.0

CHEMWATCH

Melbourne, Australia

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Table of Contents

Glossary

ADM	Domain Administrator of the Chemwatch system within your organisation
ADG	Australian Dangerous Goods Code
AuthorITe	Create SDS application module
CAS	Chemical Abstract Substance
CHEMTOURAGE	Chemwatch Entourage for service desk support
COBRA	Control Banding Risk Assessment
COSHH	Control of Substances Hazardous to Health
CREDITE	Create Mixture application module
CW No	Chemwatch Number
DE	Data Extraction
DET	Chemwatch system Data Extraction Tool
DG	Dangerous Goods
DGEN	Document Generator for Labels module
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System for the Classification of Hazardous Chemicals and Labelling
IFC	International Fire Code, USA
ILO	International Labour Organisation, United Nations
NFPA	National Fire Protection, USA
OEL	Occupational Exposure Limit
PKG	Packing Group for Dangerous Goods
Planfix	Chemwatch CRM Ticketing System
PTN	Project Tracking Number
RA	Risk Assessment
SDM	Domain Sub-Administrator of the Chemwatch System within your organisation

SI	International System of Units
SISOT	ScanIn ScanOut Technology module
SMA	SiSoT Mobile App
SMARTSUITE	Smart Vendor, Gold, Mini SDS, Emergency Response Mobile App
SR	Subsidiary Risk for Dangerous Goods
SUSMP	Classification of Medicines and Poisons in Australia
UGD	User Gold Data
UI	User interface
UN	United Nations
VGD	Vendor Gold Data

About the User Guide

This guide is for Chemeritus users to reference specific topics on how to use the Query Builder and Report Generator modes. The topics covered are based on the various modules available within the Chemeritus and GoldFFX systems.

Modules

Home	Systems Settings Filters
Manifest and Hazards	

Modules' Features

Query Builder	**Tags**
Report Generator	

Information Reference

The information icon is used to share important notes where applicable. Most of the activities covered are illustrated using read-write permissions to all modules except the administrative settings. Users with read only permission who require more privileges, may consult with their Chemwatch system administrator.

About the Application

Chemeritus is a Chemwatch web application supported by the following latest common browsers.

Web Browser	Browser Specification	Recommended
Google Chrome	Latest version of Google Chrome	★★★★★
Firefox	Latest version of Mozilla Firefox	★★★★☆
Edge	Latest version of Microsoft Edge is supported	★★★★☆
Apple PC	Safari (latest version recommended)	★★★★☆

The web application works in both Windows PC and Mac PC which should be connected to the internet. The Chemwatch web application is not supported for the following browsing compatibilities:

- Google chrome browser with touchscreen
- Compatibility mode of internet explorer browser
- Enterprise mode of internet explorer browser

Smarter Suite Mobile App

Smarter Suite is a new mobile application for quick access to health and safety information, chemical inventory management and assets management. This mobile application uses scan-in-scan-out technology, enabling users with full visibility and tracking of the lifecycle of each container. It is compatible with both iOS and android system and can be added to the web application license as an extra package.

Note that the web application is not fully supported for smart phones and tablets.

		Features
Smarter Suite	Chemicals Management	• Smart Vendor • Smart Gold • Smart Mini • Smart ER • Smart Cobra • Smart Labels
	Assets Management	• Search and browse • Inventory • Reconciliation • Settings

For more information about SmartSuite Apps, contact sales@chemwatch.net.

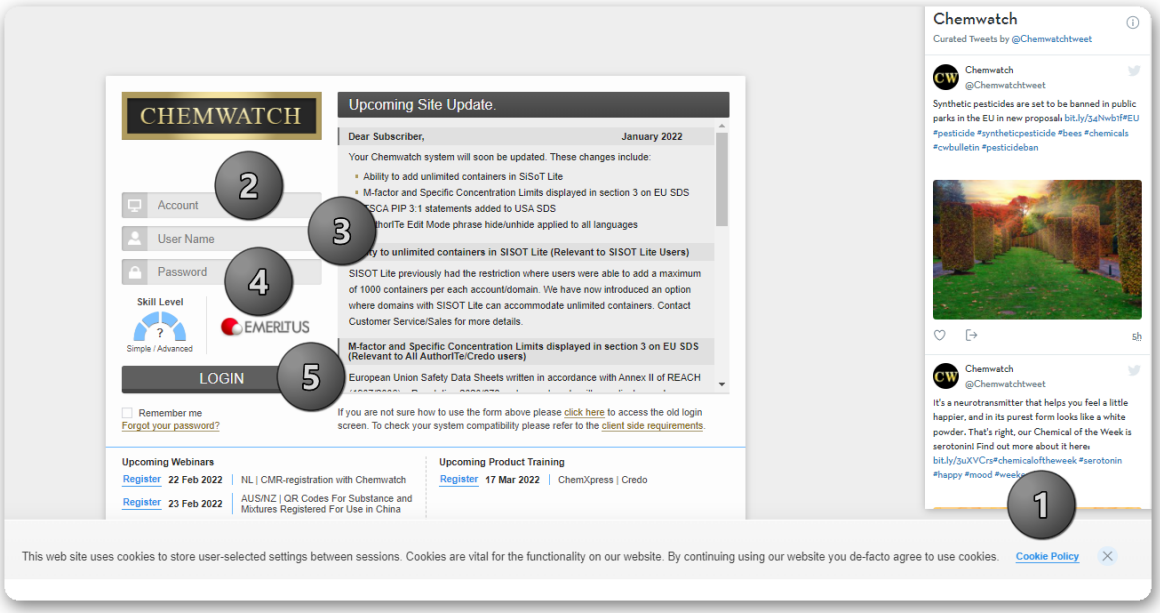
About User Login Page

Chemeritus System Online Access

The Chemwatch system is accessible online through the web address link below.

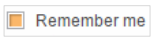
http://jr.chemwatch.net/chemwatch.web

This site uses cookies to store user selected settings between sessions. Use the "**Accept Cookies**" option to allow the site to using cookies and then follow the steps as shown below.



For automatic logins, a cookies notification message will be displayed to accept cookies.

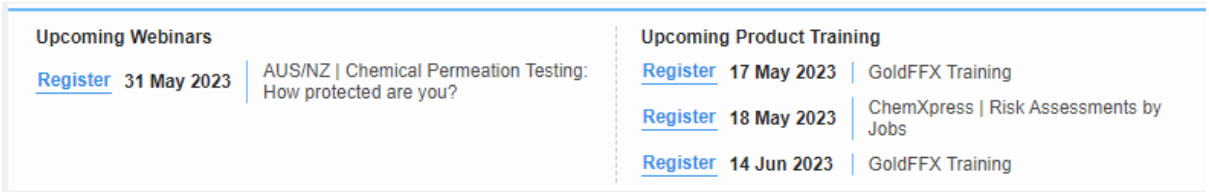
Login Page Descriptions

Item	Login Page	Function	Description
1	**Website cookies**	Cookies acceptance for the site	This site uses cookies to store user selected settings between sessions
2	**Account name**	Account identifier	This is the domain name for the system license package, applicable to all users.
3	**User Login**	User login name	This is the user login name, may be different from the username. Each user login is unique in the system and is based on the role(s), permissions and privileges assigned to the unique user login.
4	**Password**	Authentication pass identifier	Password for system authentication to login; specific to each user. A password should be more than 10 characters.
	Avoid using a weak password by including special characters such as [$, %, ^, #, @] and work email address. Note that the password will not be visible in text format but will display dots instead of characters as a masking attribute.		
5	**Login button**	Login button	Press the button to login to the system. If Single Sign ON (SSO) is set up for your organisation and enabled for your domain, the application login page will not be applicable.
	Remember me 	Checkbox ☐ to remember login data	If the checkbox ☐ is selected, the browser will remember your previous login for the account and user login. The password will always be required to be entered for security purposes.
	Forgot password?	Change password	This feature allows Chemwatch to send an email ✉ for password change. User will be required to reassign a new password.

Domains that have **Single Sign On (SSO)** activated by-pass the login page. If uncertain on how your SSO login works, consult with your organisation's domain administrator of the system.

Upcoming Webinars Registration

Any user interested in Chemwatch Upcoming Webinars and Upcoming Product Training can register from the login page. Click on the "Register" link provided at the bottom of the login page for webinar or product training of interest. The Register link will open a new page to fill in your details to register for the selected webinar.



User Roles and Permissions

The system settings are managed by the domain administrator for automatic or manual login. The domain administrator is also responsible for setting up users:

- Creating users
- Creating groups
- Assigning users to groups
- Folder permissions
- User interface settings
- Creating Roles
- Privileges assignment to users or roles
- Users profiles
- Authentication mode

The types of user profiles may range from basic users with read only, users with edit rights to administer other users with some level of control of the systems settings.

To identify the type of user profile applicable to your login, as provided by the domain administrator of the system within your organisation, refer to the table below. If unsure of your user role or permissions, contact the administrator of Chemwatch application within your organisation for more information or send an email to customerservice@chemwatch.net for support.

The table below recapitulates the system's functional roles and related permission attributes.

Function	User Profile	Description	Permission
Domain Administrative Role	Primary Administrator of the system	Entire Access to the system	Full access with read-write permission to the entire system and able to set up users and respective privileges, products and user access management.
Management Role	Manifest Management level	Management of specific areas of the system's manifest	Ability to edit, (read-write permission) materials, access to assigned role permissions; to be able to manage data; report generator, dashboards, document filter tools, conduct risk assessments and many more functions.

Function	User Profile	Description	Permission
Basic Role	General use level	General use may have limited access and read function	Ability to read data, search for materials, view various accessible reports as per privileges set by the domain administrator.
Approvals Module User Role (Applicable to Chemeritus package with Approvals)	*Users that are assigned to a particular stage of the Approvals Workflow*	*Requestor*	*A requestor is set to request for material to be approved, this stage 1 process.*
		Stage Approver in the workflow	*Stage approver is a subsequent stage to approve stage 1 requests until the workflow cycle is complete and the requests are approved.*

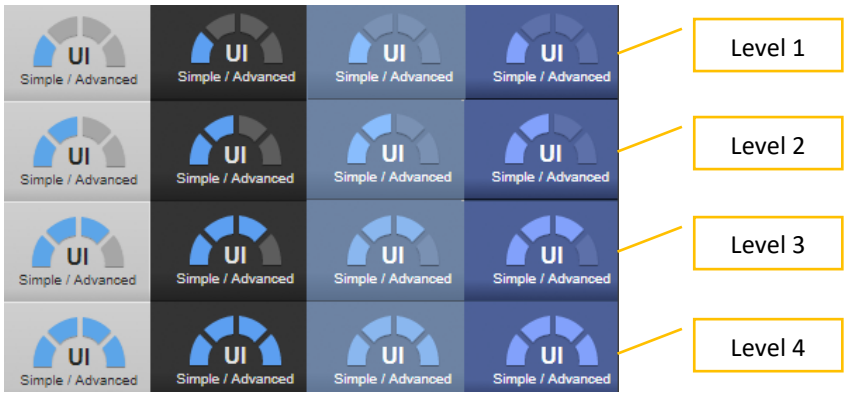
About the Feature Meter and UI Panels

The Feature Meter is a user interface gauge geared towards improving usability of the Chemeritus, GoldFFX and Backpack applications user interface from Advanced mode (Chemeritus full features) to Basic and Simple mode based on skill level.

What is a "Feature Meter"?

The Feature Meter is a user interface gauge (skill level) intended to enable users to toggle between "**Simple and Advanced**" screen display of panels, features and functionalities of predefined Chemwatch packages. The primary purpose of this gauge is to provide a clear hierarchy in reducing the appearance of complexity of the user interface to ensure that users can focus on what is important by controlling what they see on the screen.

The feature meter enables users to toggle between simple to advanced features display on the user interface. The image below also shows the different colour themes available for the user interface. The feature meter is categorized into the following "four-gauge levels":



This solution presents different UI (User Interface) panels with applicable colour themes and product package logos. In this document, all application screen shots are based on the most common "light blue" user interface's colour theme.

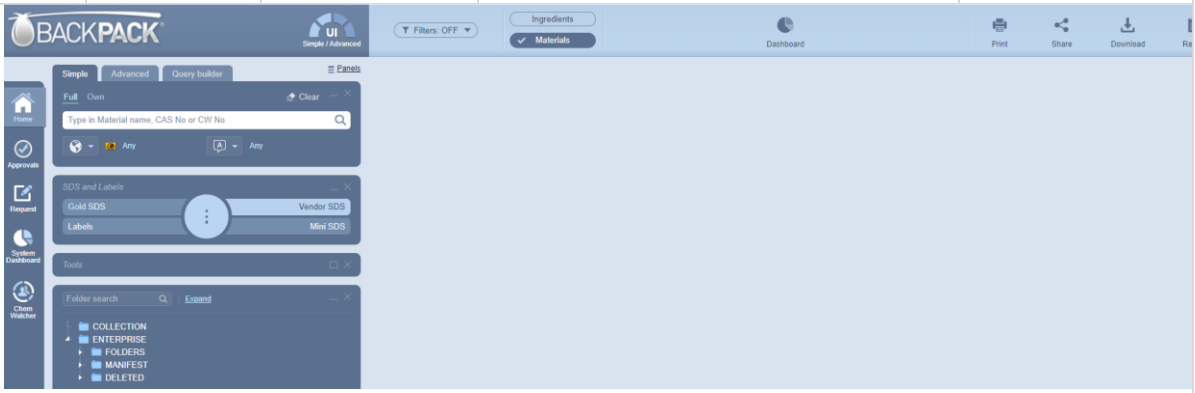
Skill Level	Mode	Application	Package (Product + Logo)
Level 1	Simple mode user interface	Backpack Lite	BACKPACK LITE
Level 2	Basic mode user interface	Backpack	BACKPACK
Level 3	Normal mode user interface	Chemeritus	GOLD FFX
Level 4	Advanced mode user interface	Chemeritus	EMERITUS

The Feature Meter does not affect the standard default buttons and icons – User interface (UI) language, live help chat, print, download, share, elearning, bulletin and manuals. Editing folders and materials on the grid uses a mouse right click functionality on Windows PC. For a Mac PC, the mouse right click functionality uses a left mouse click.

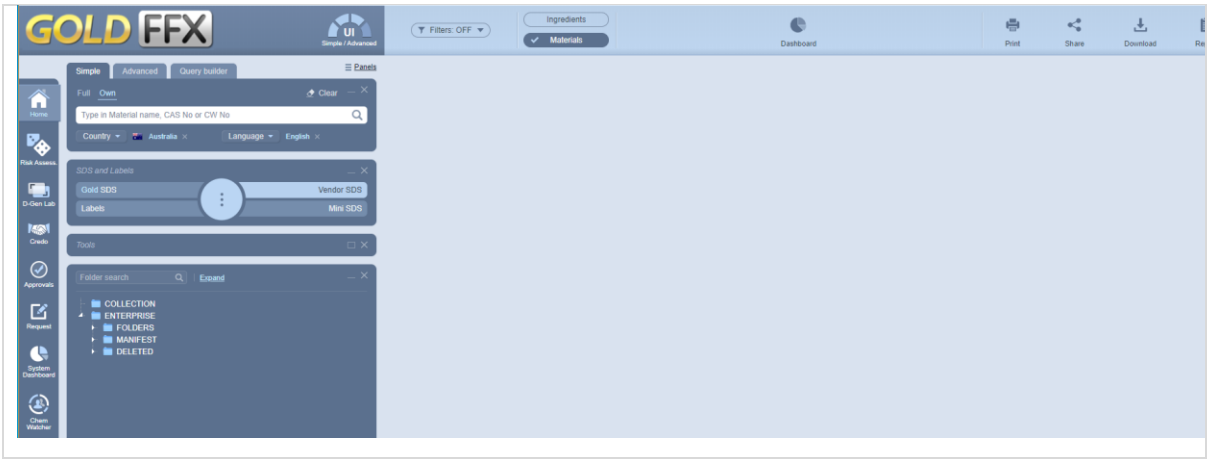
Table: Feature Meter Product Features

Level (L)	Mode Name (Application)	Package (Product+Logo)	Panel(s) (Features and Functionalities)	Meter Gauge (Active Level)
L1	Backpack Light mode	Custom Backpack BACKPACK LITE	**Search Panel** Basic search capabilities to look for materials and display Vendor SDS documents.	UI Simple / Advanced 1 segment on the gauge is active

Level (L)	Mode Name (Application)	Package (Product+Logo)	Panel (s) (Features and Functionalities)	Meter Gauge (Active Level)
L2	Simple mode	Backpack BACKPACK	**Basic** Basic search capabilities to look for materials and display SDS documents, labels and access folders and export reports.	UI Simple / Advanced Two segments on the gauge are active



Level (L)	Mode Name (Application)	Package (Product+Logo)	Panel(s) (Features and Functionalities)	Meter Gauge (Active Level)
L3	Normal mode	Chemeritus GOLD FFX	**Intermediate** Basic and advanced search capabilities to look for materials and display SDS documents, labels and access folders. Filter the manifest for hazards and dangerous goods, perform risk assessments, create mixtures, export data reports and access to dashboards widgets.	UI Simple / Advanced Three segments on the gauge are active



Level (L)	Mode Name (Application)	Package (Product Logo)	Panel(s) (Features and Functionalities)
L4	Advanced mode UI Simple / Advanced **Meter gauge** All four segments on the gauge are active	Chemeritus EMERITUS	**Modules** Home, Risk Assessment, DGen Lab, AuthorITe, Request, System Dashboard, Approvals and Chemwatcher. **Panels** Search (Simple/Query Builder), SDS and Labels, Tools, Folder Tree. **Toolbar** Hazards Filter, Ingredients/Materials, Dashboard, Manifest, Sisot, Receipts, Stocktake/Reconciliation, Requests (New/History).

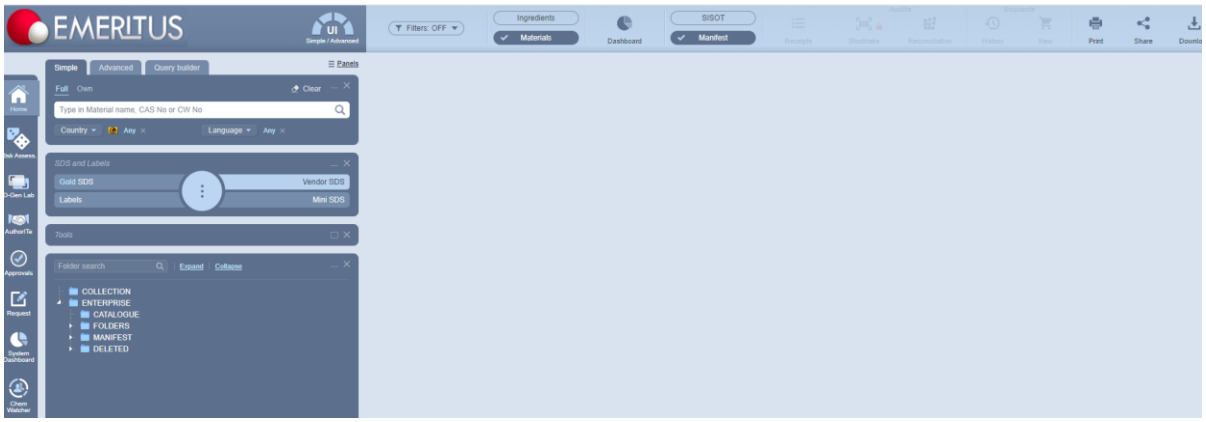
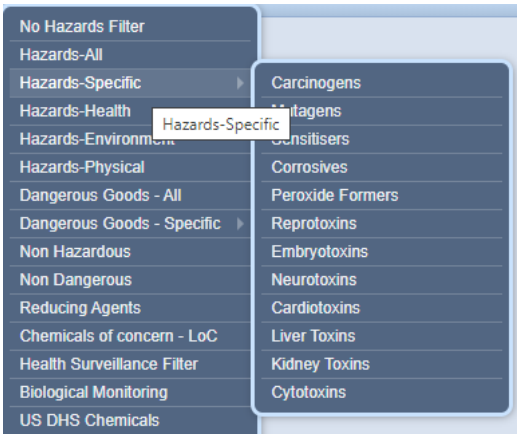
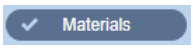
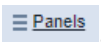


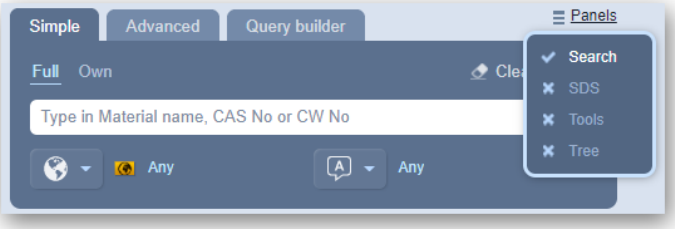
Table: User Interface Elements Descriptions

Module	Feature Elements	Description	Use
Home	Simple mode Simple Search panel, SDS, Emergency and Labels panel.	Search for materials by material name and/or vendor.	Search for materials by various options; to access Vendor, Mini, Gold SDS, Labels and Emergency Reports . 
Query Builder	Advanced Search in Search pane Query builder	Create search criteria as queries to allow a combination of search options.	Create a search criteria and search for materials by applying the query based on the database available in the system. The Search criteria will be determined by the type of operators (contains, equals, start with, does not contain, does not start with, end with, and does not end with).
Materials List (Register)	View Materials and Documents table.	Materials table. Documents table.	Access to a list of materials and the respective Vendor SDS documents.
Manifest Hazards Filters	Hazards Filtering Filters: OFF provides a menu of hazard categories, dangerous goods, manifest quantity, incompatibility and many more options.	Filter materials register to collate chemicals based on the specific hazard categories.	Filter by various types of Hazards, Dangerous Goods, Incompatibilities, Chemicals of Concern, US DHS Chemicals, Placarding Report, SARA, Health Surveillance, International Fire Code, NFPA, Dangerous Goods Report, Tags and many more. 
Edit Manifest	Edit manifest register and quantities	Edit materials and quantities	Copy, move, remove (delete) materials, edit volume/weight.
Ingredients	Generate Ingredients Report	Extrapolate ingredients contained in materials in a folder	Extrapolate ingredients contained in materials in a folder/store and Print , Save or Email the report.

Module	Feature Elements	Description	Use
Part No  Preferred Names 	Part numbers Preferred Names	Create or Edit Part Numbers. Create or Edit Preferred Names.	Create or Edit Part Numbers for materials in folder register. Create or Edit Preferred Names for materials in folder register.
Manifest Mode 	Manifest Materials mode 	Manifest view of materials in Manifest Directory, Sites, Areas, Sections, Locations	Allows users to add materials and view materials register but not add containers/volume/weight.
Folder Panel 	Folder Tree Structure	Contains systems directories; Enterprise, Collection, Folders, Manifest and Deleted.	Allows users with read-write permission to create folders, copy, move, rename, remove, print and edit folder properties.
Risk Assessment 	Control Banding Risk Assessment	ILO, UN, Jobs, Risk Assessment Matrix	Allows users to conduct ILO (Health) and UN (Dangerous Goods) risk assessments based on the control banding risk assessment model. The report generator mode can also be used to export risk assessment data into a spreadsheet for further use or reporting.
Tags	Filter settings tab	Create automatic or manual tags and associate tags with query builder	Tags can be used to identify or flag out specific materials that meet the criteria based on a created query.

Switching UI Panels On/Off Temporarily

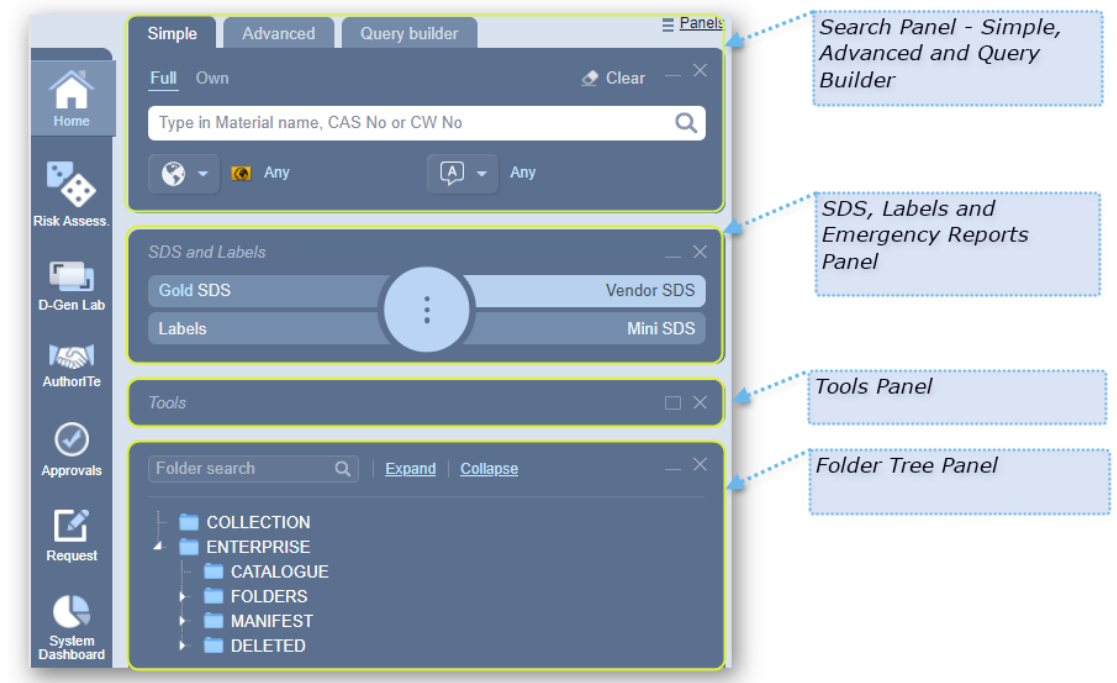
The main user interface panels can be temporarily hidden from view through the Panels link  .



Panel Status	Panel Switch Mark
Temporarily turned "OFF" from the user interface (panel hidden from view)	A cross is displayed next to the name of the panel
Turned "ON" from the user interface	A tick is displayed next to the name of the panel

The User Interface Panels availability and access depends on user interface privileges assigned to users by the application administrator. These panels are; ***Search, SDS Labels and Emergency, Tools and Folder Tree***.

illustrated in the screenshot below.



Search Panel

This panel contains three tabs that enable users to search by **Simple** mode, **Advanced** mode or **Query Builder** method. Users can also set the country and language parameters to apply them in the search criteria. There are two database search paths: namely, **Full** and **Own**. Full refers to the entire Chemwatch database collection of millions of SDS and Own refers to a domain's own inventory collection located in the Chemwatch database.

SDS and Labels Panel

This panel allows users to choose the type of document to display for a single material or product at a time by pressing any of the following available options; **Vendor SDS, Gold SDS, Mini SDs, Labels or Emergency Reports** [First Aid, Fire Fighting, Spills, CHINA (Cautionary Hazard Information for Action), Advice to Doctor, Environmental, PPE (Personal Protective Equipment), SOP (Standard Operating Procedure), Toxicological, and Transport (ERG, DGTECSA) or Additional (Monograph).

Folder Tree Panel

This panel provides a system's Folder Structure for the Enterprise to manage a domain's **Folders and Manifest Directories**. Materials and SDS can be added into created folders as part of inventory management and Manifest related stores/locations in a country or region or specific site/building as well as at the storage level.

Query Builder

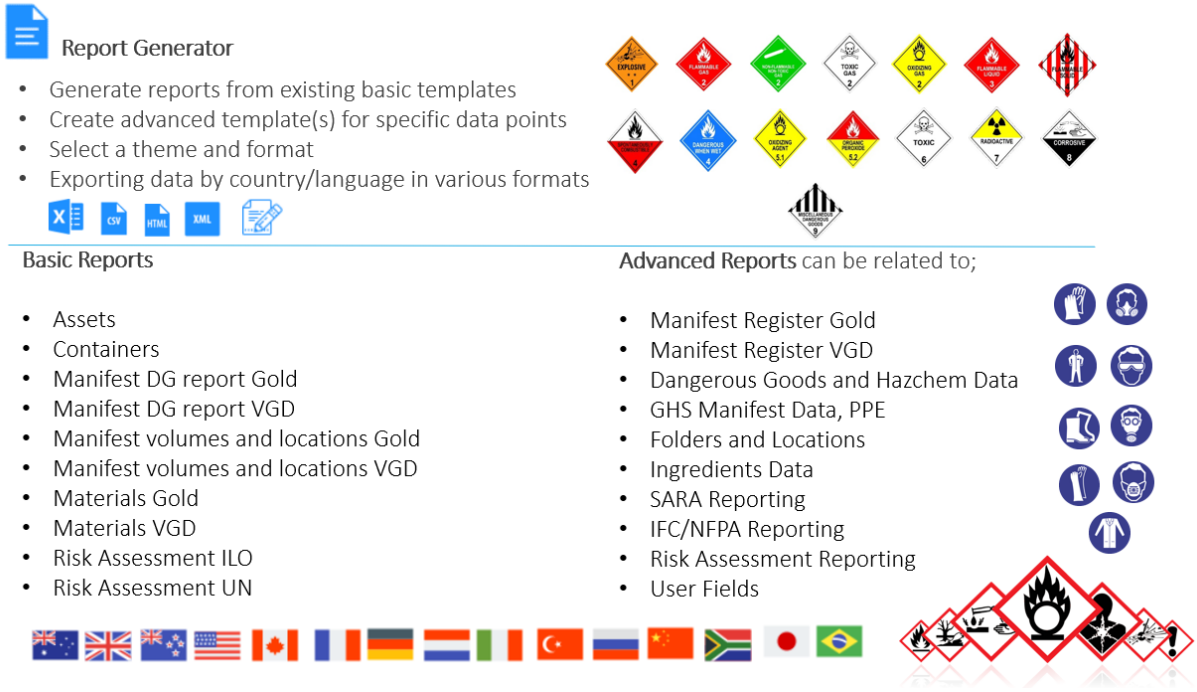
Query Builder search is designed for conditional construction of queries to search for specific information by using a set of rules and search properties.

1.0 Create Templates and Export Reports

This chapter will cover the following objectives based on the available Report Generator features and functionality of this mode:

- → How to use the Chemwatch Basic templates to generate reports
- → How to create user defined templates
- → How to export data by using user defined templates
- → How to use Theme Formatted Style to generate reports
- → How to use quick search in method builder to find data points

WHAT YOU'LL LEARN



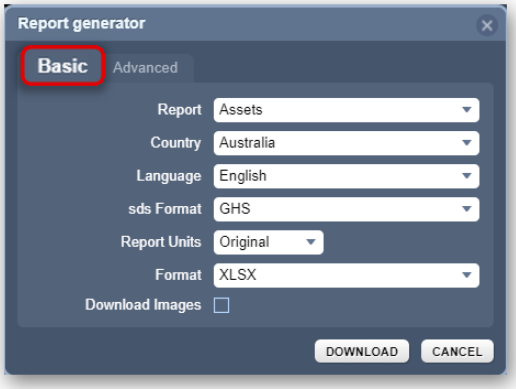
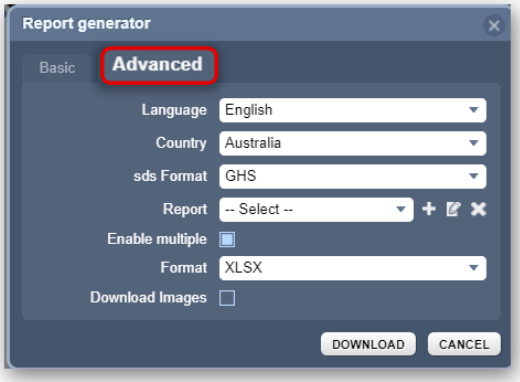
The Report Generator Panel Components

There are two tabs available for user to utilise the report generator feature to export data.

- Basic mode
- **Advanced mode**

Note that the users must be assigned the respective privileges to use the full scope of the Report Generator features. Contact your domain administrator for more information.

The table below provides a summary of the functions for each mode.

Basic mode	Advanced mode
	

The report generator components contained in the above panels are described in the table below for reference on how they can be used to generate reports in various formats.

Component	Attribute	Use	Expectation
Report Generator Button	Provides the **Basic** or **Advanced** features of the report generator tool to export report data in various formats.	Generate reports from basic templates or create advanced templates to export data into various formats.	Users must be granted privileges to use the Report Generator feature.
Language	Provides a drop-down list of available languages.	Enables users to generate reports based on selected language.	
Country	Provides a drop-down list of available countries.	Enables users to generate report based on selected country.	
SDS Format	Two types of SDS formats available: • Local • GHS	Local format relates to Risk Code format (R Codes). GHS format relates to the Globally Harmonised Hazard Classification (H Codes).	
Report	All created report templates are saved in the drop-down list of this field.	Enables users to choose the report template name to export the respective report based on the assigned data points.	

Component	Attribute	Use	Expectation
Enable Multiple	Enable multiple records of items to be generated	Allows users to include extra-lines for items that may have multiple records	
Format	Provides a drop-down list of available report formats: 	A report format is required to be selected in order for the system to use that selected format to export respective data.	
Download Images	Enabling this feature will include images/graphics when a report is generated.	If any graphics data point is selected when creating a template, those images will be downloaded.	
Add Report	Create a new report template by adding data points by using the method builder panel.	Enables users to create + new report templates by assigning data points to export information through a chosen report format.	
Edit	Edit an existing report template.	**Enables users to edit report templates data points that were originally assigned or add or remove some**	
Delete	Remove an existing report template.	Enables users to delete an existing report template that is no longer required.	

Report Generator User Attributes

Permission	Description	User Interface Attribute	Folder View
Deny	Directories/folder content cannot be accessed by users who have been denied access.	A message displays “to contact the administrator”.	Access denied
Not Defined	Directories/folder will not be visible to users.	Folders assigned to this type of permission will be hidden from users.	Hidden
Read	Directories/folder content can be accessed by user but can only view folder content (register of materials) but cannot edit content.	Folder content cannot be edited (i.e., cannot add or copy or move or remove (delete) folders or materials but can generate basic reports if granted the respective report generator privileges.	View and/or generate basic mode reports

Permission	Description	User Interface Attribute	Folder View
Read-write 	Directories/folder content can be accessed by user, permitted to copy, move, remove (delete) folders, materials and edit material quantities as well create report templates  .	Users can view folder content (register of materials) and edit content (folders, materials and quantities). Users can generate basic template reports. Users can create report generator templates in advanced mode.	 View, edit and generate basic reports and advanced reports

In this chapter, will focus on the following Report Generator activities:

- Generating reports using the Basic tab report templates
- Creating user defined templates using the Advanced tab, e.g., Manifest datapoints, Risk Assessment datapoints, NFPA datapoints
- Generating reports using Theme formatted styles templates

1.1 Generate Reports using Basic Templates

The **Basic Tab Report Templates** created by Chemwatch are available by default and these templates contain the following datapoints. It may be important to consider these data points prior to choosing a basic report to generate the appropriate data.

Basic Report Template	Description of Report Type	Report Generator Datapoints
Assets	The **Assets Report** is generated based on OWN material inventory for the available Sisot containers. If there are containers in selected folder, the system will display a corresponding warning message.	Folders/Stores Name, Container Catalogue Number, Container Cat/Container Name, Container Document Linked, Vendor, Container Size, Container Size Unit, Container Quantity, SARA Container Type, SARA Temperature, SARA Pressure, SARA Solid Form, Radioactive Flag.
Containers	The **Containers Report** is generated based on OWN material inventory for the available Sisot containers. If there are containers in selected folder, the system will display a corresponding warning message.	Folders/Stores Name, Container Catalogue Number, Container Cat/Container Name, Container Document Linked, Vendor, Container Size, Container Size Unit, Container Quantity, Container Status, Container Registration Status, Container Owner, Container Barcode, Container Creation Date, Container Expiry Date.
Hazard Rating	The **Hazard Rating Report** is generated based on OWN material inventory as per Chemwatch	Material Name, Vendor, GHS Classification Gold, Hazard Rating Gold, Vendor Issue

Basic Report Template	Description of Report Type	Report Generator Datapoints
	Hazard Ratings. If there are materials without hazard ratings, these will be generated as “Unknown” for the hazard rating datapoint fields in the report.	Date, Total Volume, Total Volume Unit, Maximum Volume, Maximum Volume Unit, UN Number, Dangerous Goods Primary Class Gold, SUSMP Poison Schedule, CAS Number Gold, Folders/Stores Name.
Ingredients Full Disclosure UGD	The **Ingredients Full Disclosure UDG Report** is generated based on OWN material inventory as per the ingredients full disclosure based on User Gold Data (UGD). If there are ingredients without full disclosure, these will be generated as “Not available” in the report.	Material Name, Vendor, Catalogue Name, Ingredients Full Disclosure UGD, Ingredients UGD, Folders/Stores Name.
Manifest DG Report GOLD	The **Manifest DG Report GOLD** is generated based on OWN material inventory as per Chemwatch Gold SDS availability. If there are materials without a GOLD SDS, these will be generated as “Unknown” in the report.	Chemwatch Number, Material Name, Total Volume Unit, Maximum Volume, Maximum Volume Unit, Dangerous Goods Primary Class Gold, HAZCHEM Gold, Packing Group Gold, Folders/Stores Name.
Manifest DG Report VGD	The **Manifest DG Report VGD** is generated based on OWN material inventory as per Vendor Gold Data availability. If there are materials without a GOLD SDS and No VGD data extracted, these will be generated with “Unknown” in respective VGD datapoint fields in the report.	Chemwatch Number, Material Name, Catalogue Name, Vendor, Total Volume Unit, Maximum Volume, Maximum Volume Unit, Dangerous Goods Primary Class VGD, HAZCHEM VGD, Packing Group VGD, Folders/Stores Name.
Manifest Volumes and Locations GOLD	The **Manifest Volumes and Locations GOLD Report** is generated based on OWN material inventory as per Vendor Gold Data availability. If there are materials without a GOLD SDS data extracted, the datapoints will be generated with “empty fields” in the report.	Chemwatch Number, Material Name, Catalogue Name, Total Volume, Total Volume Unit, Maximum Volume, Maximum Volume Unit, Vendor, Dangerous Goods Primary Class Gold, HAZCHEM Gold, Packing Group Gold, Folders/Stores Name.
Manifest Volumes and Locations VGD	The **Manifest Volumes and Locations VGD Report** is generated based on OWN material inventory as per Vendor Gold Data availability. If there are materials without VGD data extracted, the datapoints will be generated with “empty fields” in respective VGD datapoint in the report.	Chemwatch Number, Material Name, Catalogue Name, Total Volume, Total Volume Unit, Maximum Volume, Maximum Volume Unit, Vendor, Dangerous Goods Primary Class VGD, HAZCHEM VGD, Packing Group VGD, Folders/Stores Name.
Materials Gold	The **Materials GOLD Report** is generated based on OWN material inventory as per Gold SDS Data availability. If there are materials without Gold data, the datapoints will be generated with “empty fields” in the report.	Chemwatch Number, Material Name, Part No.s User Gold, Preferred Name User, Gold SDS Issue Date (Latest).

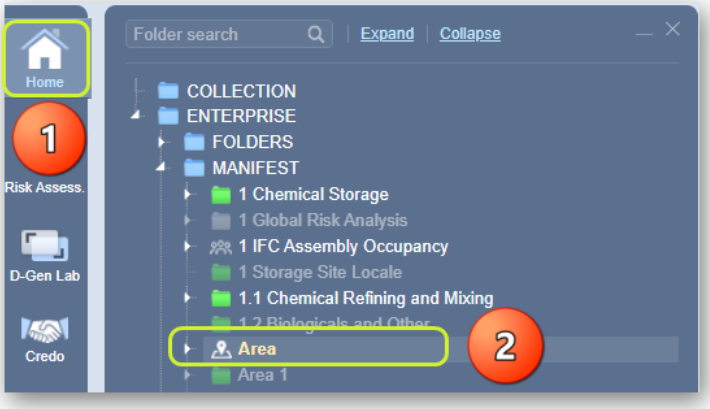
Basic Report Template	Description of Report Type	Report Generator Datapoints
Materials VGD	The **Materials VGD Report** is generated based on OWN material inventory as per VGD Data availability. If there are materials without VGD data, the datapoints will be generated with "empty fields" in the report.	Chemwatch Number, Material Name, Catalogue Name, Vendor, Part No.s User Vendor (All), Vendor Issue Date.
New Zealand Inventory	The **New Zealand Inventory Report** is generated based on OWN material inventory as per New Zealand classification data availability. If there are materials without related data, the datapoints will be generated with "empty fields" in the report.	Material Name, Catalogue Name, UN Number, GHS Classification New Zealand, DG Primary Class Gold, Storage Incompatibilities, Packing Group Gold, Gold SDS Exists, Mini Storage and Transport, Physical State Gold, Maximum Volume, Maximum Volume Unit, Folders/Stores Name.
Risk Assessment ILO (International Labour Organisation)	The **Risk Assessment ILO Report** is generated based on OWN material inventory as per the Health Risk Assessment Data availability. If there are materials without any related risk assessment data, the datapoints will be generated with "empty fields" in the report.	Material Name, ILO Task, ILO Status, ILO Hazard Rating, ILO Risk Rating, ILO Assessment Date, ILO Assessment Expired Date, ILO Approved By, Folders/Stores Name.
Risk Assessment UN	The **Risk Assessment UN Report** is generated based on OWN material inventory as per the Transport/Storage Risk Assessment Data availability. If there are materials without any related risk assessment data, the datapoints will be generated with "empty fields" in the report.	Material Name, UN Task, UN Status, UN Hazard Rating, UN Risk Rating, UN Assessment Date, UN Assessment Expired Date, UN Approved By, Folders/Stores Name.

The following steps show **how to use a basic template to export data to a spreadsheet.** In this worked example, the data will be exported from a folder node at the Area level 1 of the tree using the basic template name **Manifest locations and volumes GOLD**.

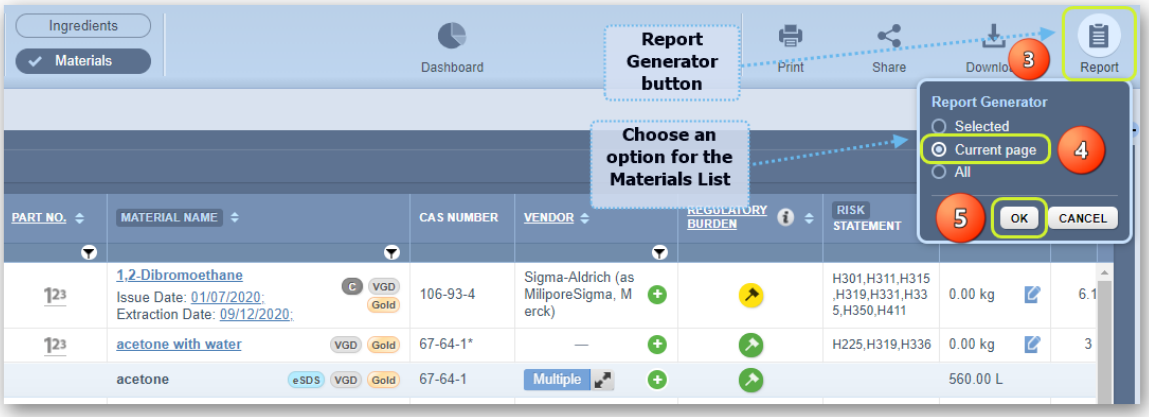
Steps

Open the **Home module** (if it's not already the default module).

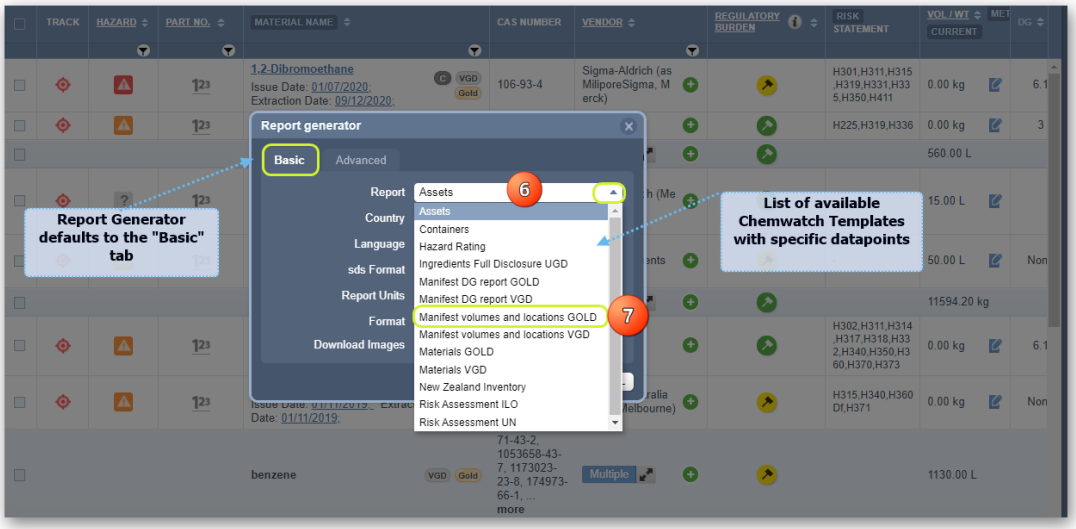
1. **Expand** Manifest Directory nodes to view the folder location, e.g., Level 1 Area node.
2. Press the **Folder name** to list its contents.



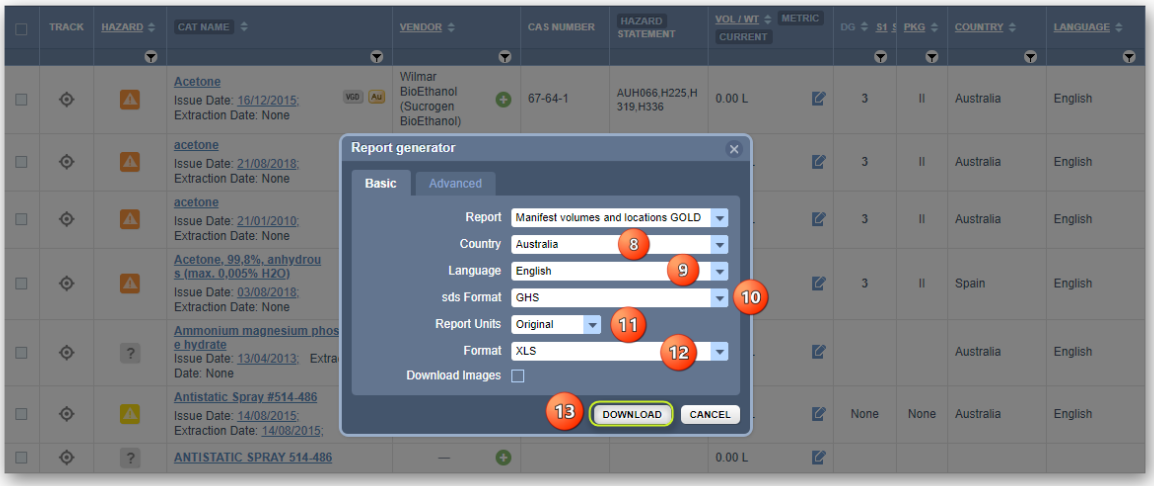
3. Click the **Report Generator** button at the top right corner of the user interface.
Ignore the default selection "Selected" and click the **Current page** radio button option to use the materials list in the current active grid.
4. Click the **OK** button.



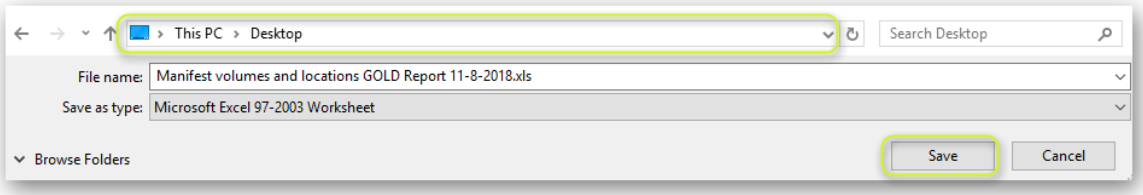
5. Select the **Report** field's **drop-down arrow** to list available report templates.
6. Select the **Report name** template from the list, e.g., Materials volumes and locations GOLD.



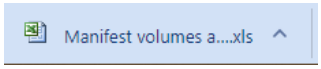
7. Select the **Country** from the drop-down arrow, e.g., Australia.
8. Select the **Language** from the drop-down arrow, e.g., English.
9. Select the **SDS format as GHS** from the drop-down arrow.
10. Select the **Report units** from the drop-down arrow, e.g., Original.
11. Select the **Format** from the drop-down arrow, e.g., XLS.
12. Press the **Download** button.



13. Choose a **file location** from the desktop/laptop to save the report.

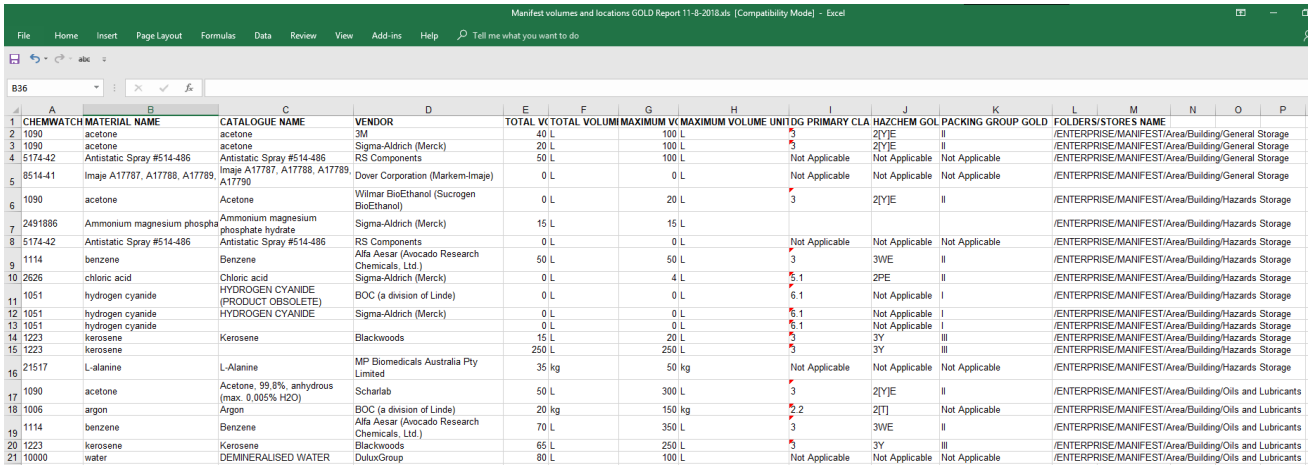


14. **Open** the downloaded **file** "Manifest volumes and locations GOLD".xls.



15. The report exports data into the spreadsheet based on the selected datapoints.

The default datapoints in the report templates in the Basic mode have been created by Chemwatch and the information exported is inferenced to the data located from the source folder or location within the system's tree structure, which is data drawn from your company's inventory. Using the same steps to generate other types of reports based on the existing basic templates; the exported data will resemble the following report, although the datapoints may vary from one report to another. Samples of these types of reports based on the basic default templates are provided in the Appendix of this guide for reference. Close the report generator panel by clicking the close icon or the cancel button CANCEL.



Manifest volumes and locations GOLD Report 11-8-2018.xls [Compatibility Mode] - Excel

	CHEMWATCH	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL VC		TOTAL VOLUMI	MAXIMUM VC	MAXIMUM VOLUME UNIT	DG PRIMARY CLA	HAZCHEM GOL	PACKING GROUP GOLD	FOLDERS/STORES NAME
2	1090	acetone	acetone	3M	40	L		100	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
3	1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L		100	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
4	5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	50	L		100	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
5	8514-41	Imaje A17787, A17788, A17789	Imaje A17787, A17788, A17789, A17790	Dover Corporation (Markem-Imaje)	0	L		0	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
6	1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L		20	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
7	2491886	Ammonium magnesium phospha	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	15	L		15	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
8	5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L		0	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
9	1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L		50	L	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
10	2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L		4	L	5.1	2PE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
11	1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)	0	L		0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
12	1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	0	L		0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
13	1051	hydrogen cyanide			0	L		0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
14	1223	kerosene	Kerosene	Blackwoods	15	L		20	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
15	1223	kerosene			250	L		250	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
16	21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited	35	kg		50	kg	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
17	1090	acetone	Acetone, 99.8%, anhydrous (max. 0.005% H2O)	Scharlab	50	L		300	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
18	1006	argon	Argon	BOC (a division of Linde)	20	kg		150	kg	2.2	2[T]	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
19	1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	70	L		350	L	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
20	1223	kerosene	Kerosene	Blackwoods	65	L		250	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
21	10000	water	DEMINERALISED WATER	DuluxGroup	80	L		100	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

1.2 Create Templates using Advanced Tab to Generate Reports

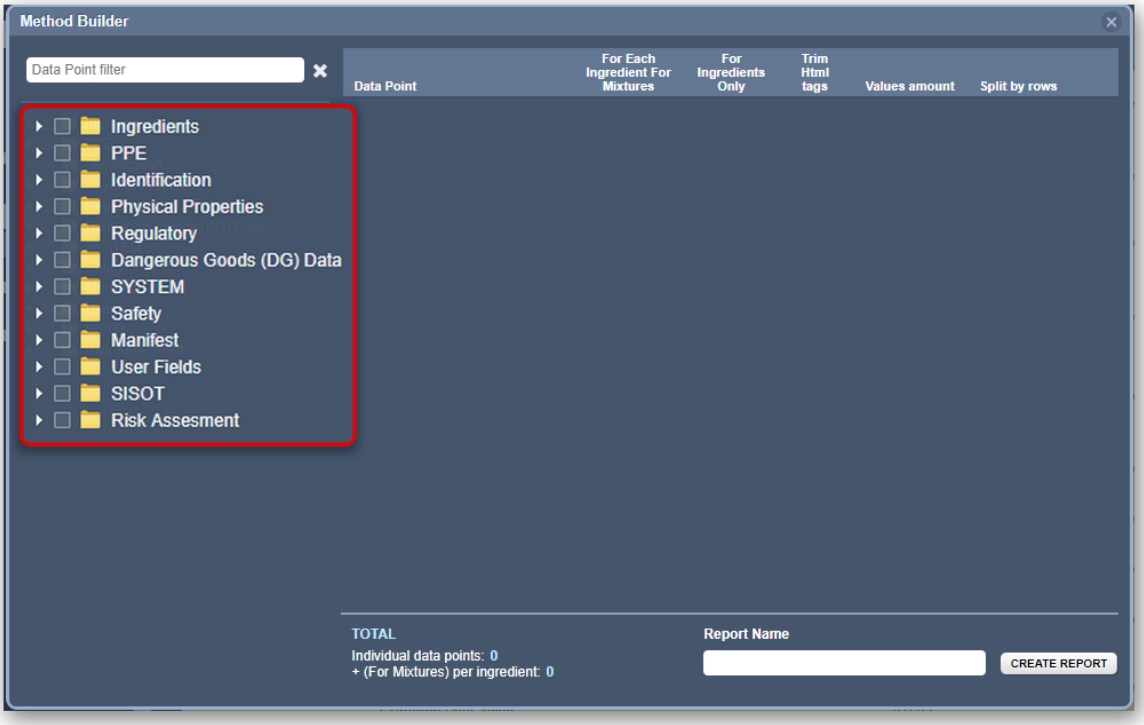
This topic will cover the following objectives:

WHAT YOU'LL LEARN

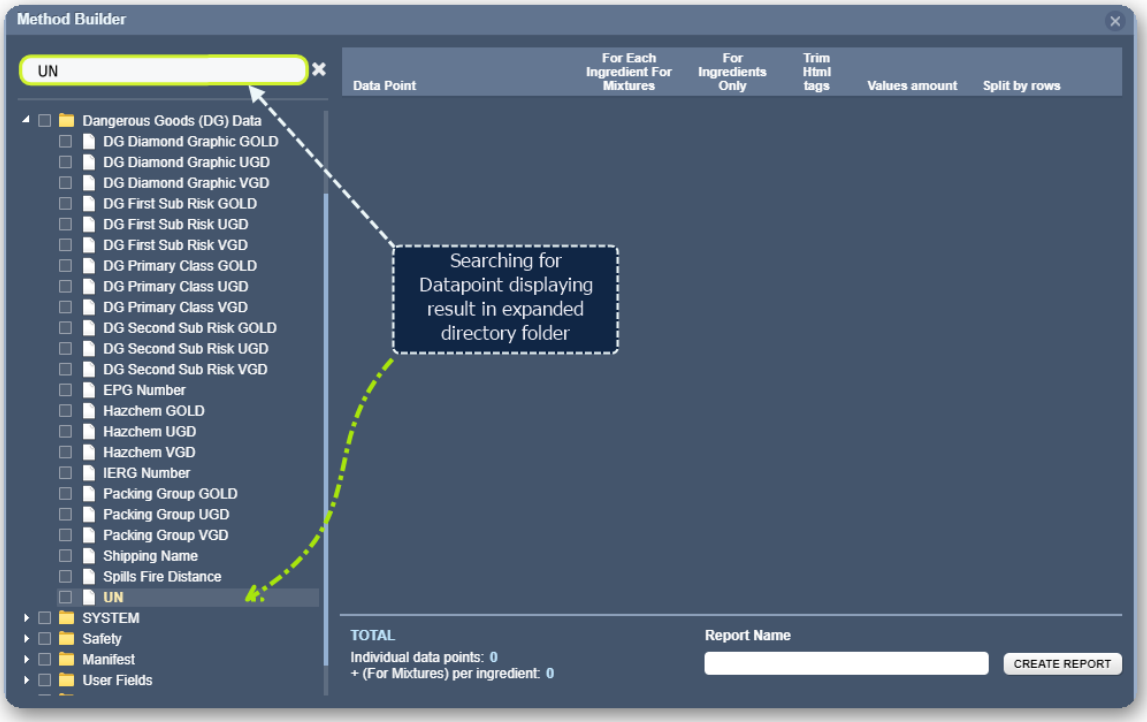
- → How to create advanced templates based on Manifest related data
- → How to create advanced templates based on Risk Assessment related data
- → How to create advanced templates based on NFPA related data
- → How to export data by using user defined templates
- → How to use Theme Formatted Style to generate reports
- → How to use search in method builder to find specific data points

The **Advanced** tab provides users, who have the appropriate report generator related permissions with the ability to create new templates, edit existing templates and use those user defined templates to generate reports.

The templates must be created using specific datapoints available in the Method Builder directory folders. The **Method Builder** contains a filter function to look up a specific datapoint from the Folder directory. Once a datapoint is identified, it can be selected to add it to your template.



Searching for data points had become easy on RG with the introduction of 2-character data points searching. Users can now search for data points like UN (acronym), etc.



Note that there are many Chemwatch datapoints available including those that may be user defined. These datapoints, in turn; are used by the system to drive the required information from the database and exported using the collated template to generate the selected data to a spreadsheet as a report.

Report Generator
Data Points

Directory	Data Points' Categories
Ingredients	Composition/constituents proportion GOLD, UGD, VGD
PPE	GHS PPE Graphics, Glove selection, Mini SDS Eye/Hands/Nose/Respiratory
Identification	Appearance, CAS Number, Cat Name, Extraction Date Material Name, Part No.s, SDS Country, Trade Names, Tags, Use, Vendor details, Vendor Issue Date
Physical Properties	Auto Ignition Temperature, Boiling Point, Decomposition Temperature, Flammability, Flash Range, LEL, Melting Range, Molecular Weight, Odour, pH, Physical Sate, Relative Vapour Density, Specific Gravity, UEL, Viscosity, Volatile Component, Water Solubility
Regulatory	Annex XIV Sunset Date, Combustible Liquids Class, GHS Classification, My Reach Uses, SUSMP
Dangerous Goods (DG) Data	Diamond Graphics, DG Classification, EPG Number, IERG Number, HAZCHEM, Packing Group, Spills Fire Distance, UN Number
SYSTEM	CW ER Data, ERG Number, First Aid, Hazards Action Guide, Shipping Name. SDS Type, SMILES
Safety	Health Effects, Toxicity, CW Hazard Ratings, Engineering Controls, Fire Hazards, First Aid...
Manifest	Biological Monitoring, Folders/Stores Name. Max Volume, total Volume, Units
User Fields	User dependent fields
SISOT	Container Data – Barcode, Cat Name, Volume/Weight, Catalogue Number, Scan Date, SARA,...
Risk Assessment	Approved By, Assessment Date, Status, Task, Assessment Expiry Date, Hazard Rating, Risk Rating

1.2.1 Create Template on Manifest Data and Generate a Report

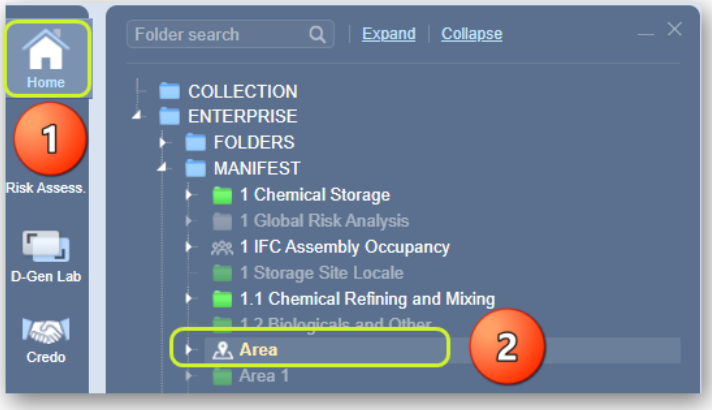
The following steps show **how to create a template** to export Manifest data into a spreadsheet. In this worked example, the information will be exported using data from a folder node at the Area level 1 under the Manifest Directory within the tree structure. A few data points for a Manifest related type of report may include the following datapoints.

Directory	Method Builder Data Points
Identification	Cat Name, SDS Country, Vendor details, Vendor Issue Date
PPE	GHS PPE Graphics
Physical Properties	Physical Sate
Regulatory	GHS Classification, SUSMP
Dangerous Goods (DG) Data	DG Classification, Packing Group, UN Number, DG Diamond Graphic
Safety	Health Effects, Safe Storage
Manifest	Folders/Stores Name. Max Volume, Total Volume, Units
Risk Assessment	Approved By, Assessment Date, Status, Task, Assessment Expiry Date, Hazard Rating, Risk Rating

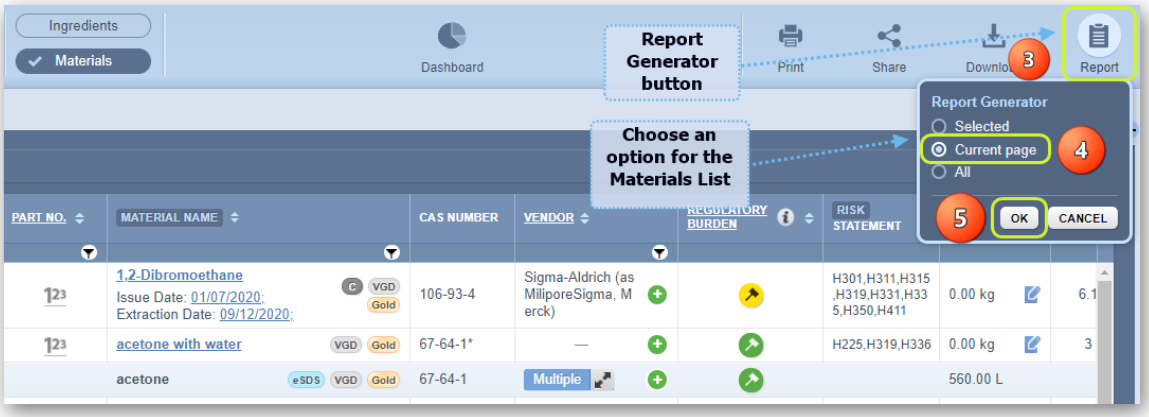
Steps

Open the **Home module** (if it's not already the default module).

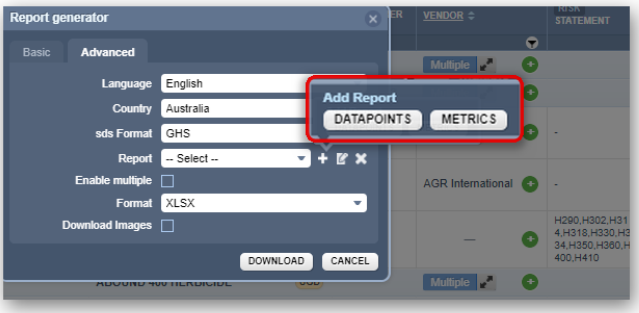
1. **Expand** Manifest directory nodes to view the folder location, e.g., level 1 Area node.
2. Press the **Folder name**. Take note that the Manifest list grid defaults to Cat Name.



3. Click the **Report Generator** button at the top right corner of the user interface.
4. Ignore the default selection "Selected" and click **the Current page** radio button option
5. Click **the OK** button.

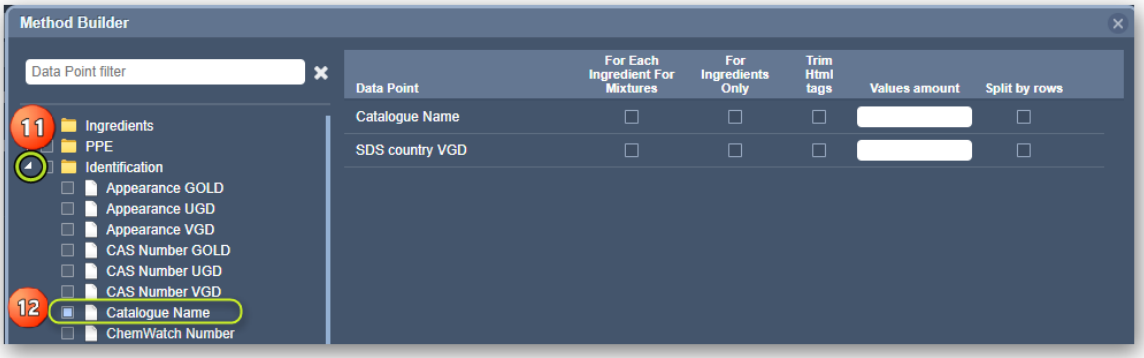


6. Press the **Advanced** tab from the report generator panel.
7. Select the **Country** from the drop-down arrow , e.g., Australia .
8. Select the **Language** from the drop-down arrow , e.g., English.
9. Select the **SDS format as GHS** from the drop-down arrow .
10. Hover move pointer over **the Add** + icon to open the method builder window to add data points and then create a report template . Click **the Add Report Datapoints** button to open the method builder window and create a report template.



11. Select the **expand arrow** next to the **Identification** folder directory to open the list of datapoints.
12. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Identification	Cat Name, SDS Country, Vendor details, Vendor Issue Date



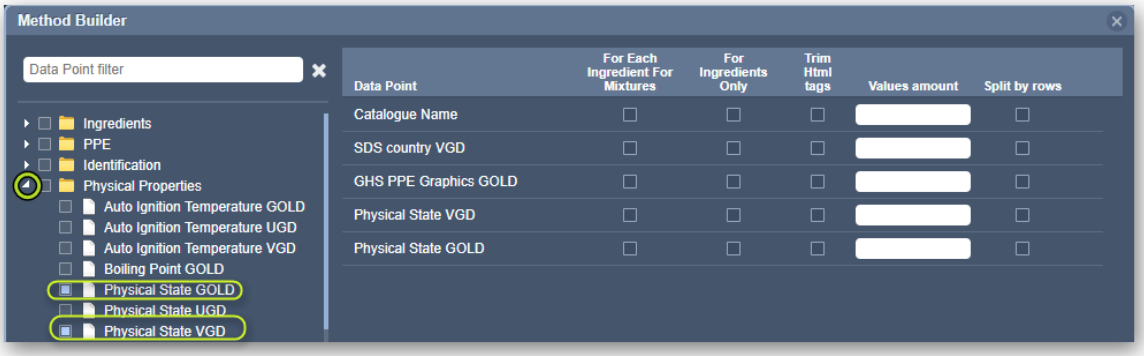
13. Scroll up to select the **expand arrow** next to the **PPE** folder directory to open the list of datapoints.

14. Click the **data point checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
PPE	GHS PPE Graphics

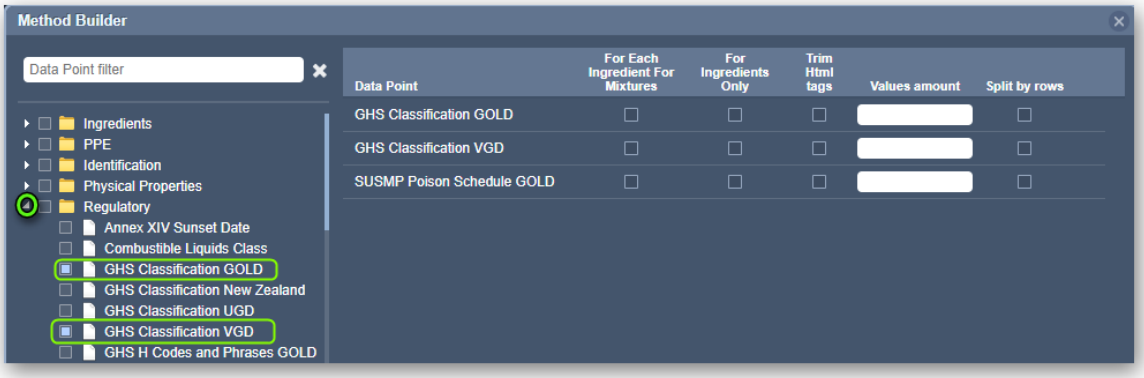
15. Scroll down to select the **expand arrow** **next** to the **Physical Properties** folder directory to open the list of datapoints.
16. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Physical Properties	Physical Sate



17. Scroll down to select the **expand arrow** **next** to the **Regulatory** folder directory to open the list of datapoints.
18. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Regulatory	GHS Classification, Signal Word, SUSMP

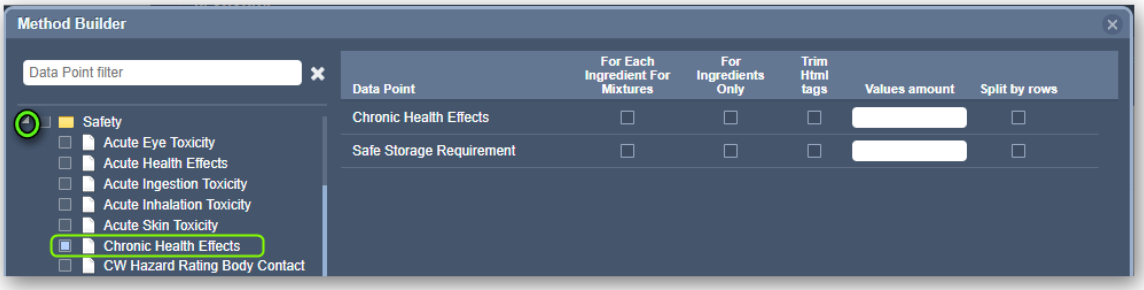


19. Scroll down to select the **expand arrow** **next** to the **Dangerous Goods (DG) Data** folder directory to open the list of datapoints.
20. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Dangerous Goods (DG) Data	DG Primary Class, Packing Group, UN Number, Shipping Name, DG Diamond Graphic

21. Scroll down to select the **expand arrow** **next** to the **Safety** folder directory to open the list of datapoints.
22. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

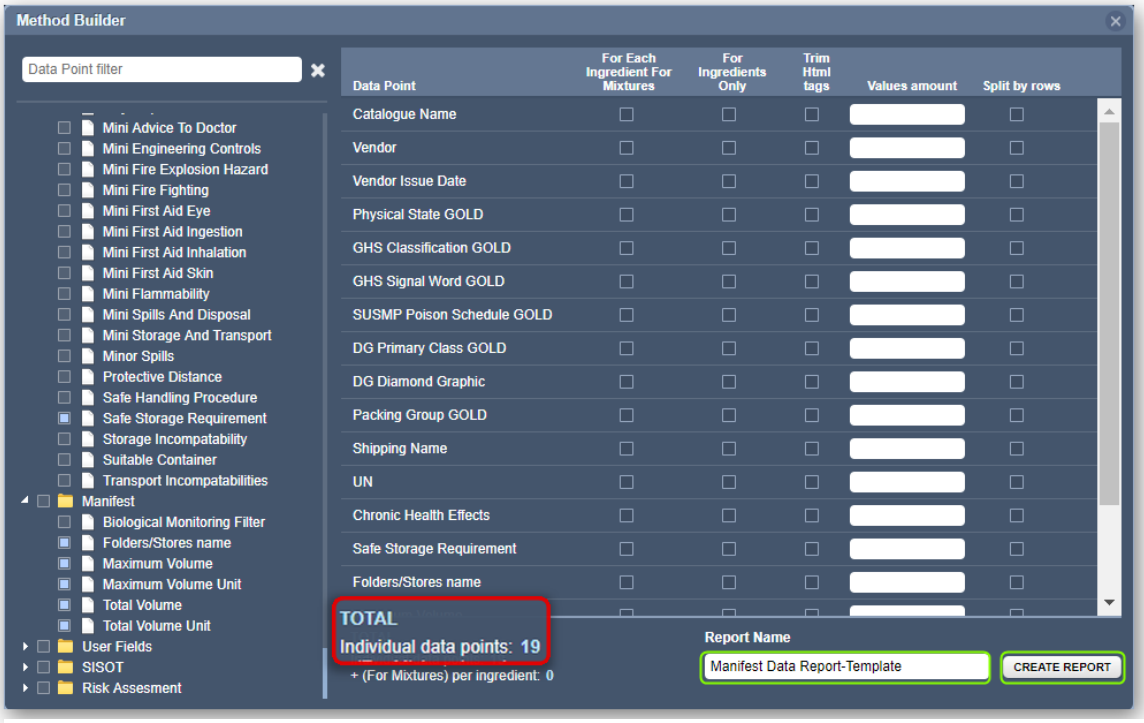
Directory	Method Builder Data Points
Safety	Health Effects, Safe Storage



23. Scroll down to select the **expand arrow** **next** to the **Manifest** folder directory to open the list of datapoints.
24. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

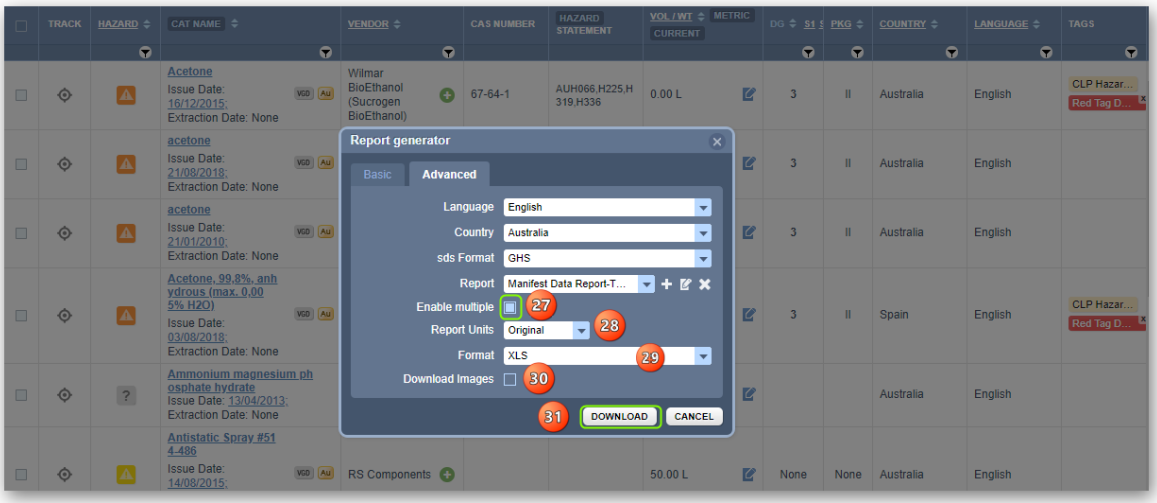
Directory	Method Builder Data Points
Manifest	Folders/Stores Name, Max Volume, Total Volume, Units

25. Type the **Report template** **name** in the Report Name free text field.
26. Press the **Create Report** button.

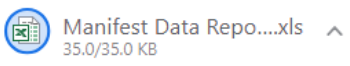


A confirmation message is displayed when the report is created, and the method builder window will close and the report generator panel will be retained to continue the tasks below.

27. Select the "**Enable multiple**" checkbox.
28. Select the **Report units** from the drop-down arrow, e.g., Original.
29. Select the **Format** from the drop-down arrow, e.g., XLS.
30. Select the **Download** images checkbox.
31. Press the **Download** button.



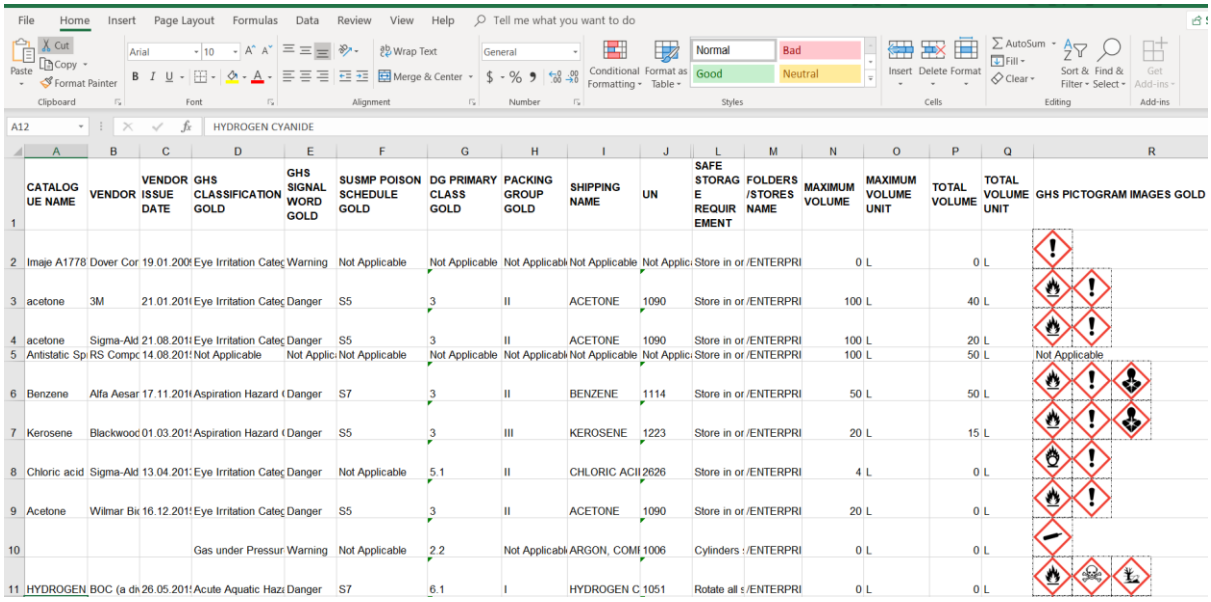
32. Choose a "**file location**" from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".
33. **Open** the downloaded file "Manifest Data Report.xls".



34. The report exports data into the respective report format, e.g., spreadsheet.

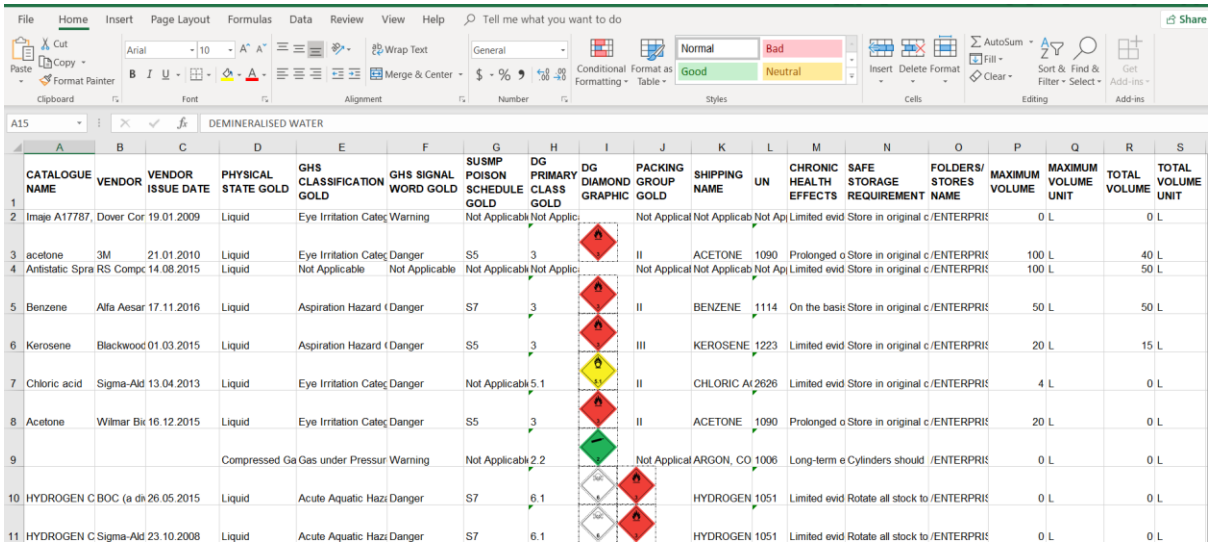
The datapoints in the report template in the Advanced mode have been created by Chemwatch and the information exported is inferenced from the data located in the source folder or location within the system's tree structure, which is data drawn from your company's inventory.

Manifest Report with GHS Pictograms



	A	B	C	D	E	F	G	H	I	J	L	M	N	O	P	Q	R
1	CATALOG UE NAME	VENDOR	VENDOR ISSUE DATE	GHS CLASSIFICATION GOLD	GHS SIGNAL WORD GOLD	SUSMP POISON SCHEDULE GOLD	DG PRIMARY CLASS GOLD	PACKING GROUP GOLD	SHIPPING NAME	UN	SAFE STORAG E REQUIR EMENT	FOLDERS /STORES NAME	MAXIMUM VOLUME	MAXIMUM VOLUME UNIT	TOTAL VOLUME	TOTAL VOLUME UNIT	GHS PICTOGRAM IMAGES GOLD
2	Imaje A1778	Dover Cor	19.01.200	Eye Irritation Categ	Warning	Not Applicable	Not Applicable	Not Applicabl	Not Applicable	Not Applic	Store in or	/ENTERPRI	0	L	0	L	
3	acetone	3M	21.01.201	Eye Irritation Categ	Danger	S5	3	II	ACETONE	1090	Store in or	/ENTERPRI	100	L	40	L	
4	acetone	Sigma-Ald	21.08.201	Eye Irritation Categ	Danger	S5	3	II	ACETONE	1090	Store in or	/ENTERPRI	100	L	20	L	
5	Antistatic Sp	RS Compc	14.08.201	Not Applicable	Not Applic	Not Applicable	Not Applicable	Not Applicabl	Not Applicable	Not Applic	Store in or	/ENTERPRI	100	L	50	L	Not Applicable
6	Benzene	Alfa Aesar	17.11.201	Aspiration Hazard (	Danger	S7	3	II	BENZENE	1114	Store in or	/ENTERPRI	50	L	50	L	
7	Kerosene	Blackwood	01.03.201	Aspiration Hazard (	Danger	S5	3	III	KEROSENE	1223	Store in or	/ENTERPRI	20	L	15	L	
8	Chloric acid	Sigma-Ald	13.04.201	Eye Irritation Categ	Danger	Not Applicable	5.1	II	CHLORIC ACI	2626	Store in or	/ENTERPRI	4	L	0	L	
9	Acetone	Wilmar Bi	16.12.201	Eye Irritation Categ	Danger	S5	3	II	ACETONE	1090	Store in or	/ENTERPRI	20	L	0	L	
10				Gas under Pressur	Warning	Not Applicable	2.2	Not Applicabl	ARGON, COMI	1006	Cylinders :	/ENTERPRI	0	L	0	L	
11	HYDROGEN	BOC (a di	26.05.201	Acute Aquatic Hazi	Danger	S7	6.1	I	HYDROGEN C	1051	Rotate all s	/ENTERPRI	0	L	0	L	

Manifest Report with DG Diamonds



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	CATALOGUE NAME	VENDOR	VENDOR ISSUE DATE	PHYSICAL STATE GOLD	GHS CLASSIFICATION GOLD	GHS SIGNAL WORD GOLD	SUSMP POISON SCHEDULE GOLD	DG PRIMARY CLASS GOLD	DG DIAMOND GRAPHIC	PACKING GROUP GOLD	SHIPPING NAME	UN	CHRONIC HEALTH EFFECTS	SAFE STORAGE REQUIREMENT	FOLDERS/ STORES NAME	MAXIMUM VOLUME	MAXIMUM VOLUME UNIT	TOTAL VOLUME	TOTAL VOLUME UNIT
2	Imaje A17787	Dover Cor	19.01.2009	Liquid	Eye Irritation Categ	Warning	Not Applicabl	Not Applic		Not Applicat	Not Applicab	Not Ap	Limited evid	Store in original c	/ENTERPRIS	0	L	0	L
3	acetone	3M	21.01.2010	Liquid	Eye Irritation Categ	Danger	S5	3		II	ACETONE	1090	Prolonged o	Store in original c	/ENTERPRIS	100	L	40	L
4	Antistatic Spra	RS Compc	14.08.2015	Liquid	Not Applicable	Not Applicable	Not Applicabl	Not Applic		Not Applicat	Not Applicab	Not Ap	Limited evid	Store in original c	/ENTERPRIS	100	L	50	L
5	Benzene	Alfa Aesar	17.11.2016	Liquid	Aspiration Hazard (	Danger	S7	3		II	BENZENE	1114	On the basis	Store in original c	/ENTERPRIS	50	L	50	L
6	Kerosene	Blackwood	01.03.2015	Liquid	Aspiration Hazard (	Danger	S5	3		III	KEROSENE	1223	Limited evid	Store in original c	/ENTERPRIS	20	L	15	L
7	Chloric acid	Sigma-Ald	13.04.2013	Liquid	Eye Irritation Categ	Danger	Not Applicabl	5.1		II	CHLORIC AC	2626	Limited evid	Store in original c	/ENTERPRIS	4	L	0	L
8	Acetone	Wilmar Bi	16.12.2015	Liquid	Eye Irritation Categ	Danger	S5	3		II	ACETONE	1090	Prolonged o	Store in original c	/ENTERPRIS	20	L	0	L
9				Compressed Ga	Gas under Pressur	Warning	Not Applicabl	2.2		Not Applicat	ARGON, CO	1006	Long-term e	Cylinders should	/ENTERPRIS	0	L	0	L
10	HYDROGEN C	BOC (a di	26.05.2015	Liquid	Acute Aquatic Hazi	Danger	S7	6.1			HYDROGEN	1051	Limited evid	Rotate all stock to	/ENTERPRIS	0	L	0	L
11	HYDROGEN C	Sigma-Ald	23.10.2008	Liquid	Acute Aquatic Hazi	Danger	S7	6.1			HYDROGEN	1051	Limited evid	Rotate all stock to	/ENTERPRIS	0	L	0	L

Use the same steps to create other report templates and generate respective reports based on other types of datapoints; the exported data will resemble the following report, although the datapoints may vary from one report template to another. Close the report generator panel by clicking the close icon or the cancel button.

The risk assessment datapoints and reports are available in the system's report generator method builder to enable users to export respective RA data based on status of the risk assessments of the materials in any selected folder.

- The Report Generator can report on saved risk assessments from within the Risk Assessment module or by using the Manifest module.

- Risk Assessment reports for both ILO (Health) and UN (Dangerous. Goods/Storage/Transport) are also available as part of the Basic mode reports.
- Risk assessment datapoints can be accessed individually from the method builder and can also be used in combination with other datapoints available in method builder depending on the type of information required in the report. The report is best drawn from the materials/product located in a folder.

The Report Generator Basic tab contains two types of RA templates;

- Risk Assessment ILO (Health)
- Risk Assessment UN (Dangerous Goods Transport/Storage)

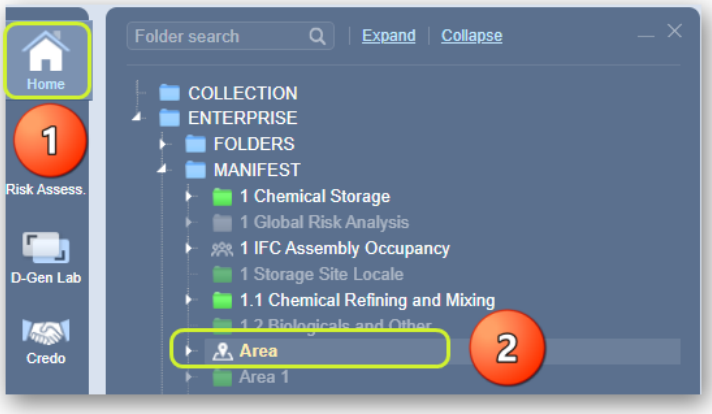
The following steps illustrate the sequence with screen capture on 'how to create a template to export risk assessment data to a spreadsheet. In this worked example, the information will be exported using data from a folder node at the Area level 1 under the manifest directory within the tree structure. The following list contains the risk assessment data points that will be captured in the report.

Directory	Method Builder Data Points
Identification	Cat Name, Material Name
Manifest	Folders/Stores Name
Risk Assessment	Approved By, Assessment Date, Status, Task, Assessment Expiry Date, Hazard Rating, Risk Rating

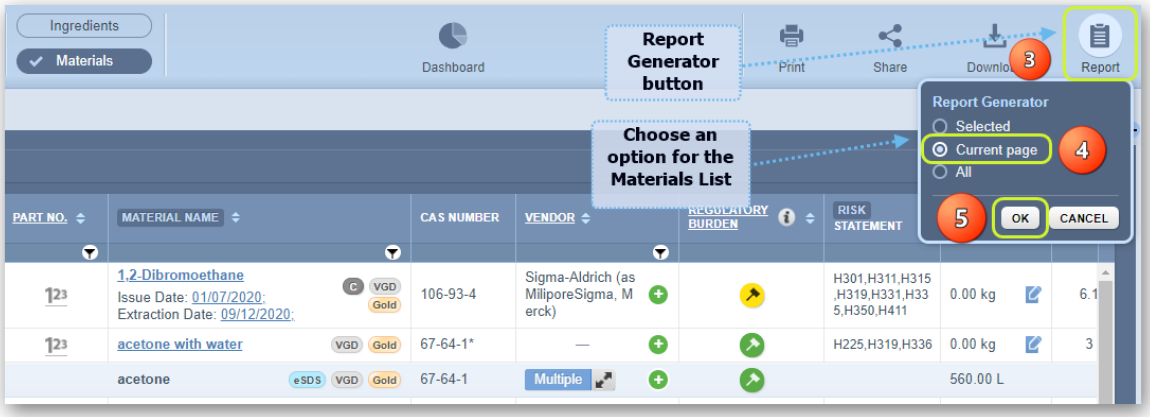
Steps

Open the **Home** module (if it's not already the default module).

1. **Expand** Manifest directory nodes to view the folder location, e.g., level 1 Area node.
2. Press the **Folder name**. Take note that the manifest list grid defaults to Cat Name.
3. Click the **Report Generator** button at the top right corner of the user interface.

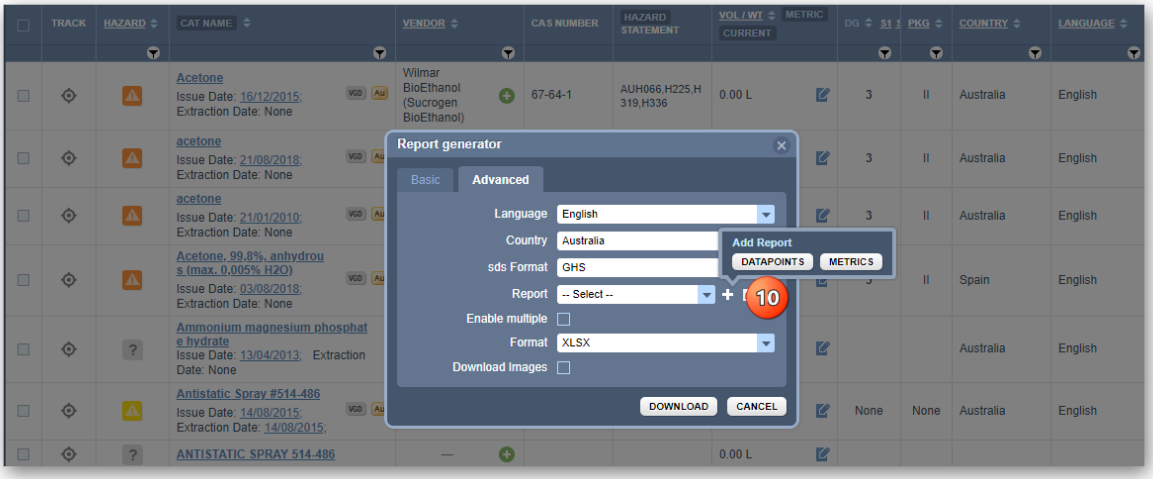


4. Ignore the default selection “Selected” and click the Current page radio button option. The “Selected” option can be used when there are specific materials within the current folder that you intend to generate a report.
5. Click the OK button.



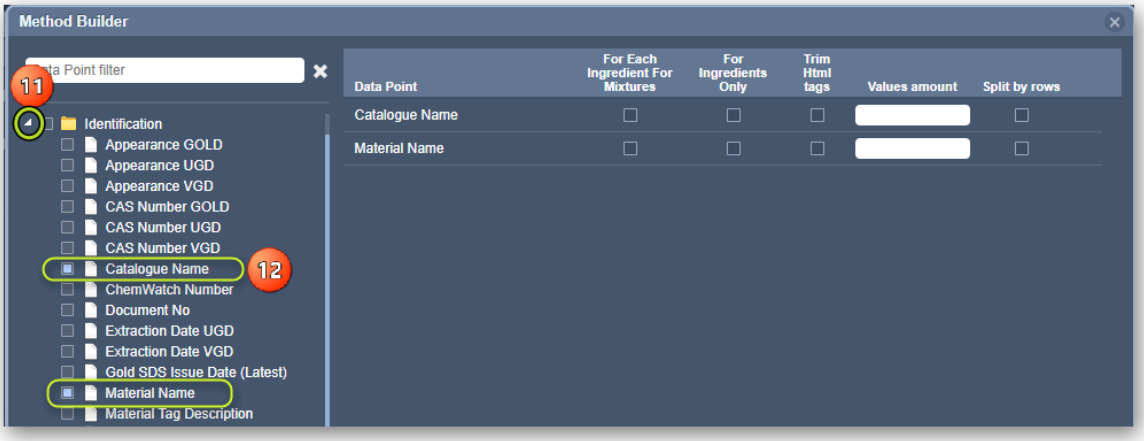
6. Press the Advanced tab from the report generator panel.
7. Select the Country from the drop-down arrow, e.g., Australia.
8. Select the Language from the drop-down arrow, e.g., English.
9. Select the SDS format as GHS from the drop-down arrow.
10. Hover move pointer over the Add + icon to open the method builder window in order to add data points and then create a report template.

Click the Add Report Datapoints button to open the method builder window and create a report template.

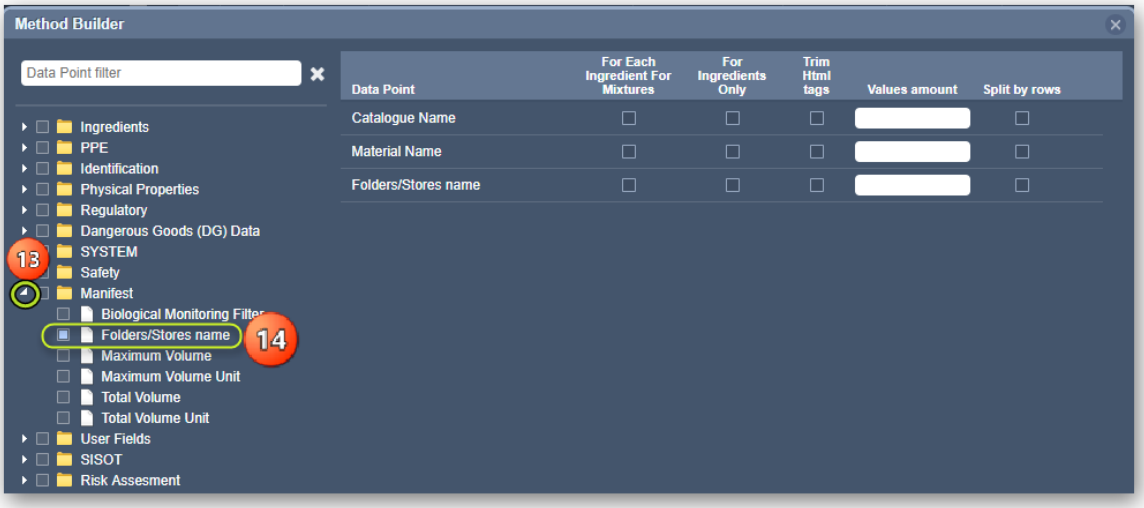


11. Select the **expand arrow** next to the **Identification** folder directory to open the list of datapoints.
12. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Identification	Cat Name, Material Name

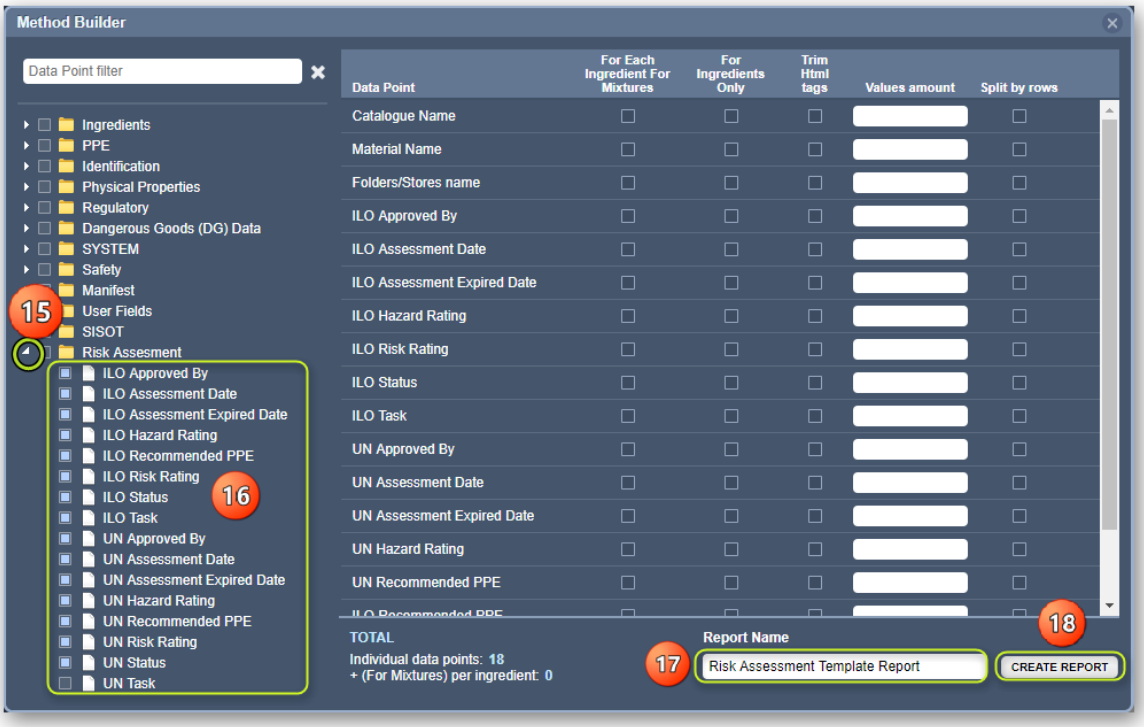


13. Scroll down to select the **expand arrow** next to the **Manifest** directory folder to open the list of datapoints.
14. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane (which can also be used for further editing).



15. Scroll down to select the **expand arrow next** to the **Risk Assessment** folder directory to open the list of datapoints.
16. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Risk Assessment	Approved By, Assessment Date, Status, Task, Assessment Expiry Date, Hazard Rating, Risk Rating

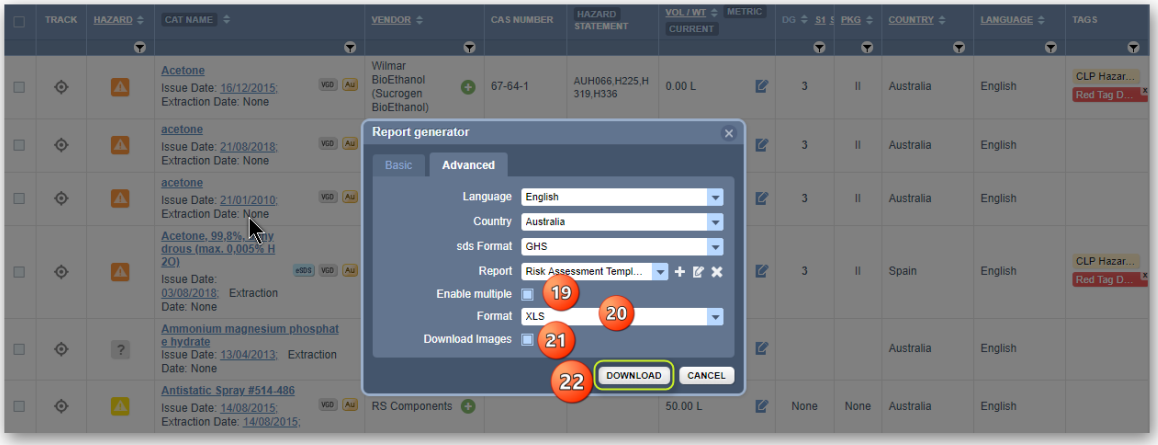


17. Type the **Report template name** in the Report Name free text field.

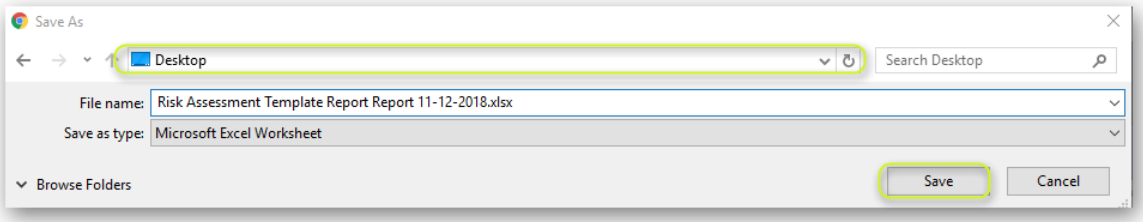
18. Press the **Create Report** button.

A confirmation message will display in the top middle of the user interface when the report is created, and the method builder window will close and the report generator panel will be retained to continue the tasks below.

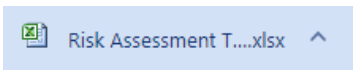
19. Select the "**Enable multiple**" checkbox.
20. Select the **Format** from the drop-down arrow, e.g., xls format.
21. Select the **Download Images** checkbox.
22. Press the **Download** button.



23. Choose a "**file location**" from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".



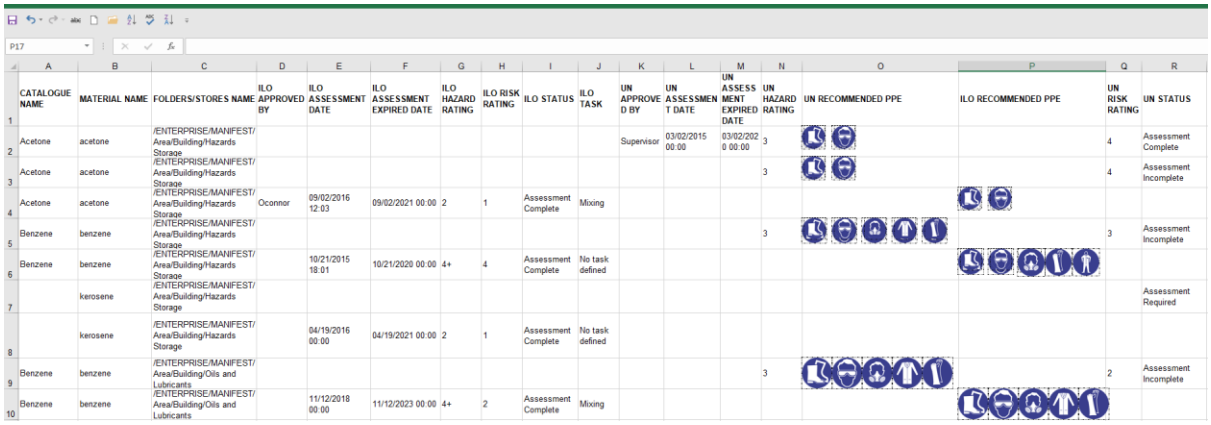
24. Open the downloaded file "Manifest Data Report.xls".



25. The report exports data into the respective report format, e.g., spreadsheet.

The datapoints in the report template in the Advanced mode have been created by Chemwatch and the information exported is inferenced from the data located in the source folder or location within the system's tree structure, which is data drawn from your company's inventory.

Manifest Risk Assessment Report with PPE Recommended



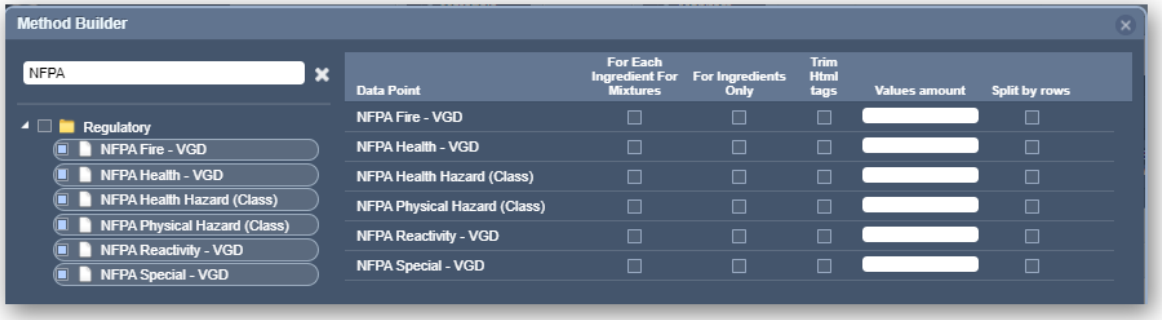
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
1	CATALOGUE NAME	MATERIAL NAME	FOLDERS/STORES NAME	ILO APPROVED BY	ILO ASSESSMENT DATE	ILO ASSESSMENT EXPIRED DATE	ILO HAZARD RATING	ILO RISK RATING	ILO STATUS	ILO TASK	UN APPROVED BY	UN ASSESSMENT DATE	UN ASSESSMENT EXPIRED DATE	UN HAZARD RATING	UN RECOMMENDED PPE	ILO RECOMMENDED PPE	UN RISK RATING	UN STATUS
2	Acetone	acetone	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage								Supervisor	03/02/2015 00:00	03/02/2020 00:00	3			4	Assessment Complete
3	Acetone	acetone	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage											3			4	Assessment Incomplete
4	Acetone	acetone	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	Oconnor	09/02/2016 12:03	09/02/2021 00:00	2	1	Assessment Complete	Mixing								
5	Benzene	benzene	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage											3			3	Assessment Incomplete
6	Benzene	benzene	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		10/21/2015 18:01	10/21/2020 00:00	4+	4	Assessment Complete	No task defined								
7		kerosene	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage															Assessment Required
8		kerosene	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		04/19/2016 00:00	04/19/2021 00:00	2	1	Assessment Complete	No task defined								
9	Benzene	benzene	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants											3			2	Assessment Incomplete
10	Benzene	benzene	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants		11/12/2018 00:00	11/12/2023 00:00	4+	2	Assessment Complete	Mixing								

Use the same steps to create other report templates and generate respective reports based on other types of datapoints; the exported data will resemble the following report, although the datapoints may vary from one report template to another. Close the report generator panel by clicking the close icon or the cancel button CANCEL.

1.2.2 Create Template on NFPA Data and Generate a Report

NFPA (The US, National Fire Protection Association) VGD (Vendor Gold Data) data points are now available for domains with Administrative Settings; Prefer Gold, Prefer VGD and Force VGD. These data points are available in the Report Generator Method Builder to enable users, especially in the US; to generate NFPA data related to their respective requirements.
Note: This article does not necessarily apply to all Chemwatch applications' users across the world. Should this article not be relevant to you, please ignore this update. The following data points are reflected in the Method Builder's panel folder directory "Regulatory Folder".

- NFPA Health - VGD
- NFPA Fire - VGD
- NFPA Reactivity - VGD
- NFPA Special - VGD



The following steps illustrate the sequence with screen capture on 'how to create a template to export NFPA data to a spreadsheet. In this worked example, the information will be

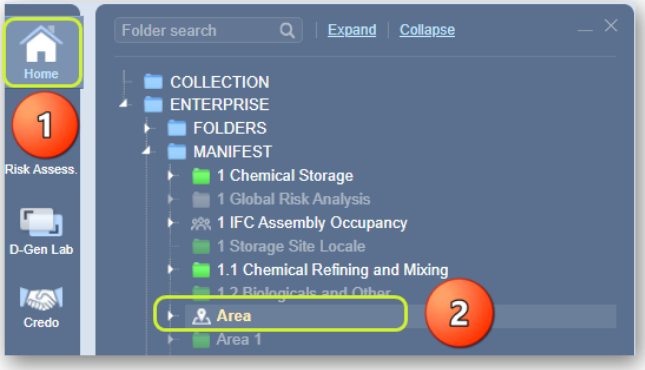
exported using data from a folder node at the Area level 1 under the Manifest Directory within the tree structure. The following list contains the NFPA related data points that will be captured in the report.

Directory	Method Builder Data Points
Identification	Cat Name, SDS Country, Vendor details, Vendor Issue Date
Regulatory	NFPA Fire, NFPA Health, NFPA Reactivity, NFPA Special VGD
Manifest	Folders/Stores Name, Max Volume, Total Volume, Units

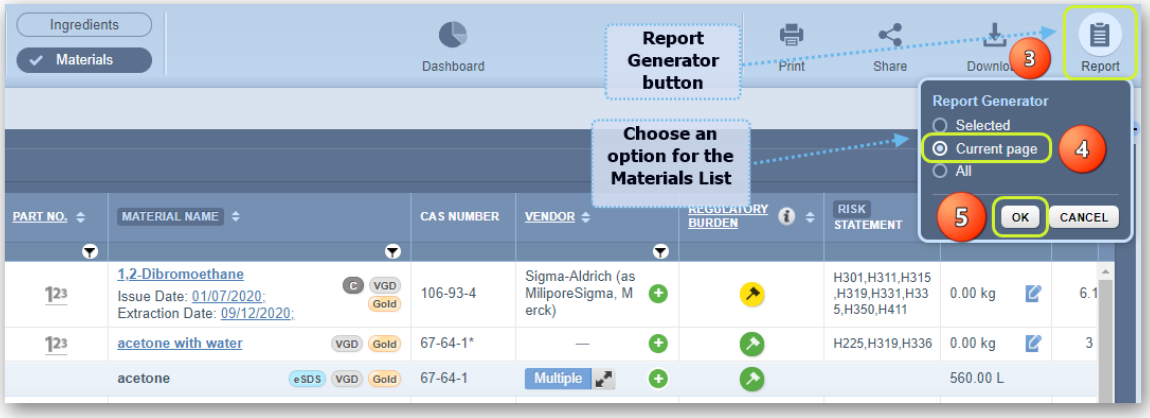
Steps

Open the **Home** module (if it's not already the default module).

1. **Expand** Manifest directory nodes to view the folder location, e.g., level 1 Area node.
2. Press the **Folder name**. Take note that the manifest list grid defaults to Cat Name.

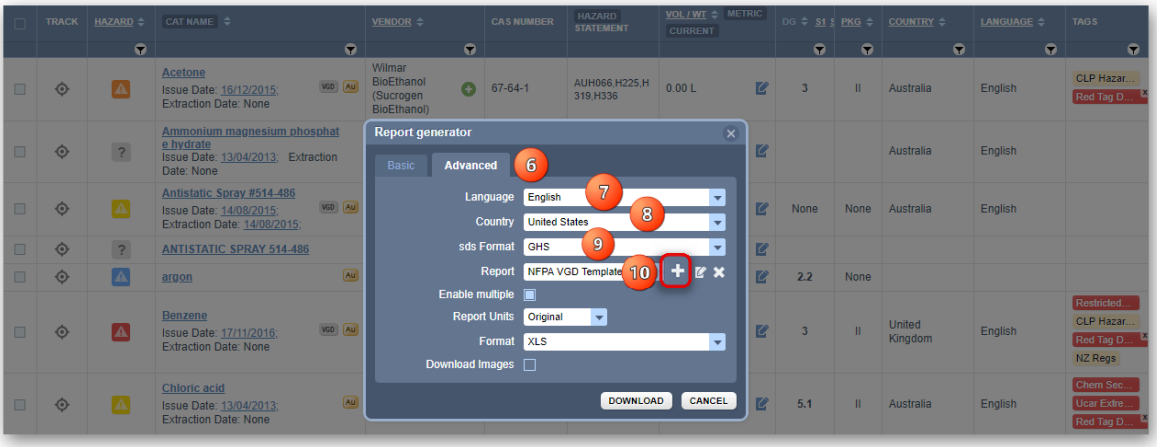


3. Click the **Report Generator** button at the top right corner of the user interface.
4. Ignore the default selection "Selected" and click **the Current page** radio button option.
5. Click **the OK** button.

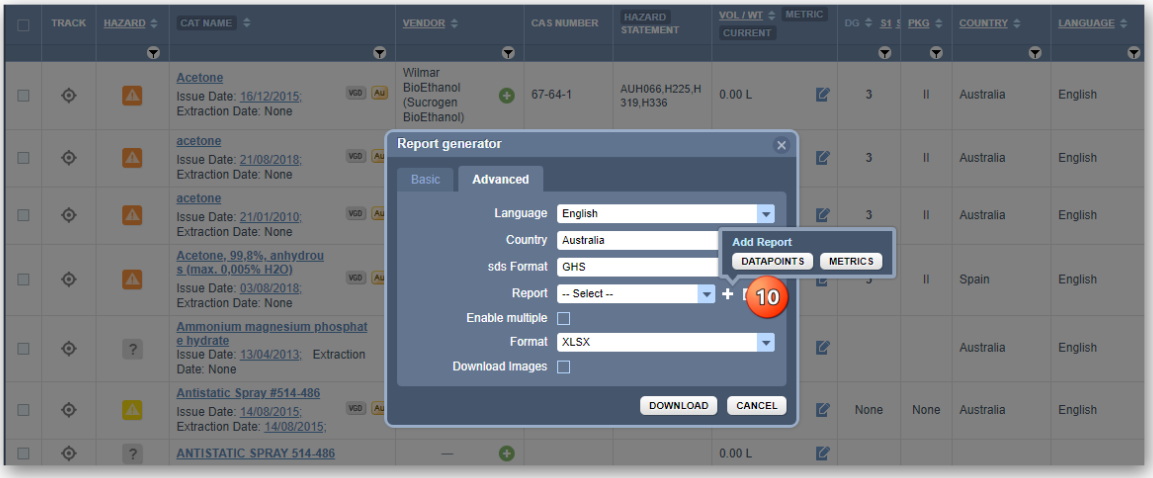


6. Press the **Advanced** tab from the report generator panel.
7. Select the **Country** from the drop-down arrow, e.g., United States.

8. Select the **Language** from the drop-down arrow, e.g., English.
9. Select the **SDS format as GHS** from the drop-down arrow.
10. Hover move pointer over **the Add** + icon to open the method builder window to add data points and then create a report template.

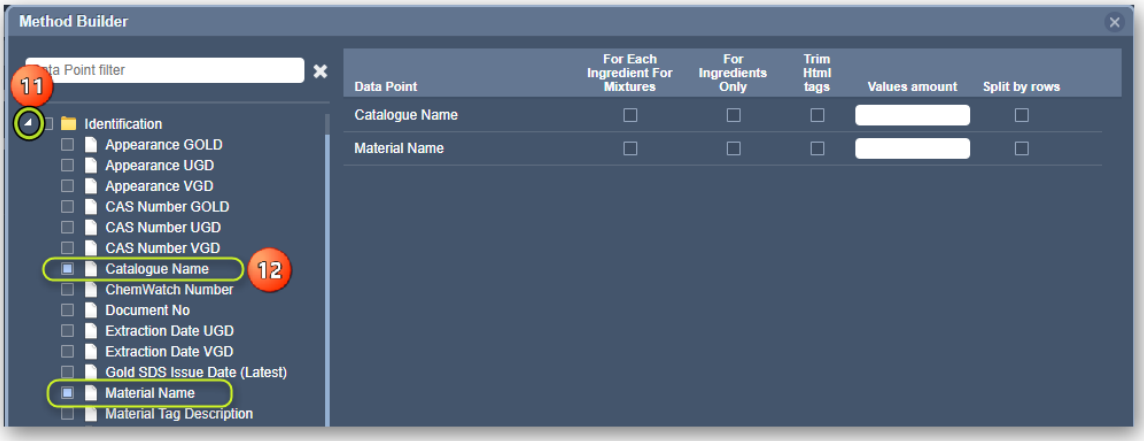


Click **the Add Report Datapoints** button to open the method builder window and create a report template.



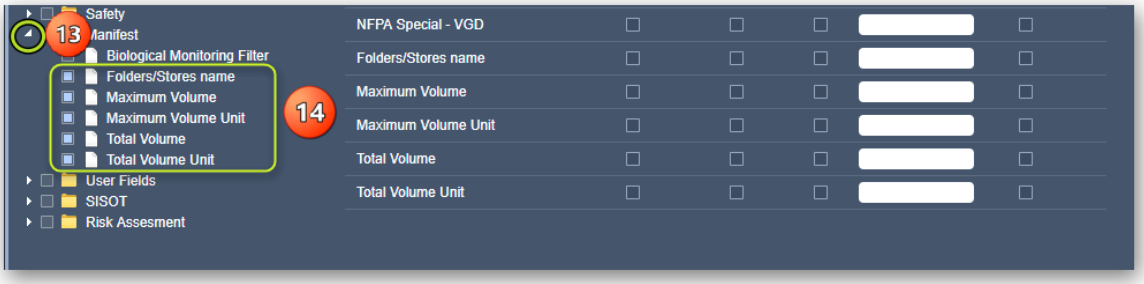
11. Select the **expand arrow** next to the **Identification** folder directory to open the list of datapoints.
12. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Identification	Cat Name, Material Name



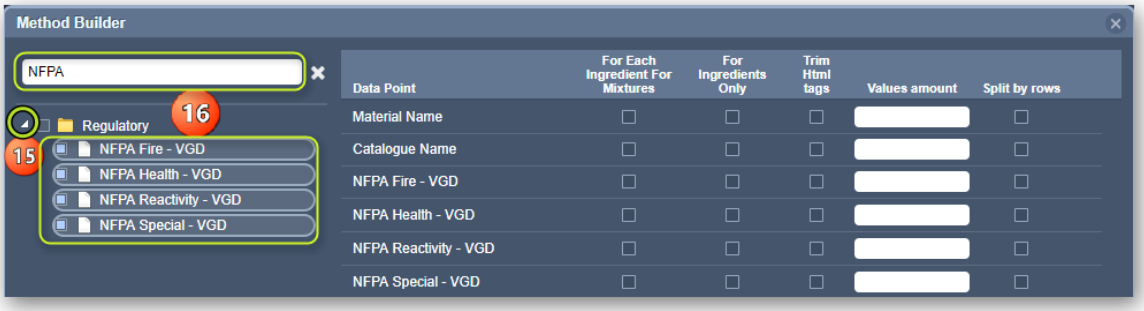
13. Scroll down to select the **expand arrow** **next** to the **Manifest** folder directory to open the list of datapoints.
14. Click the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Manifest	Folders/Stores Name, Max Volume, Total Volume, Units



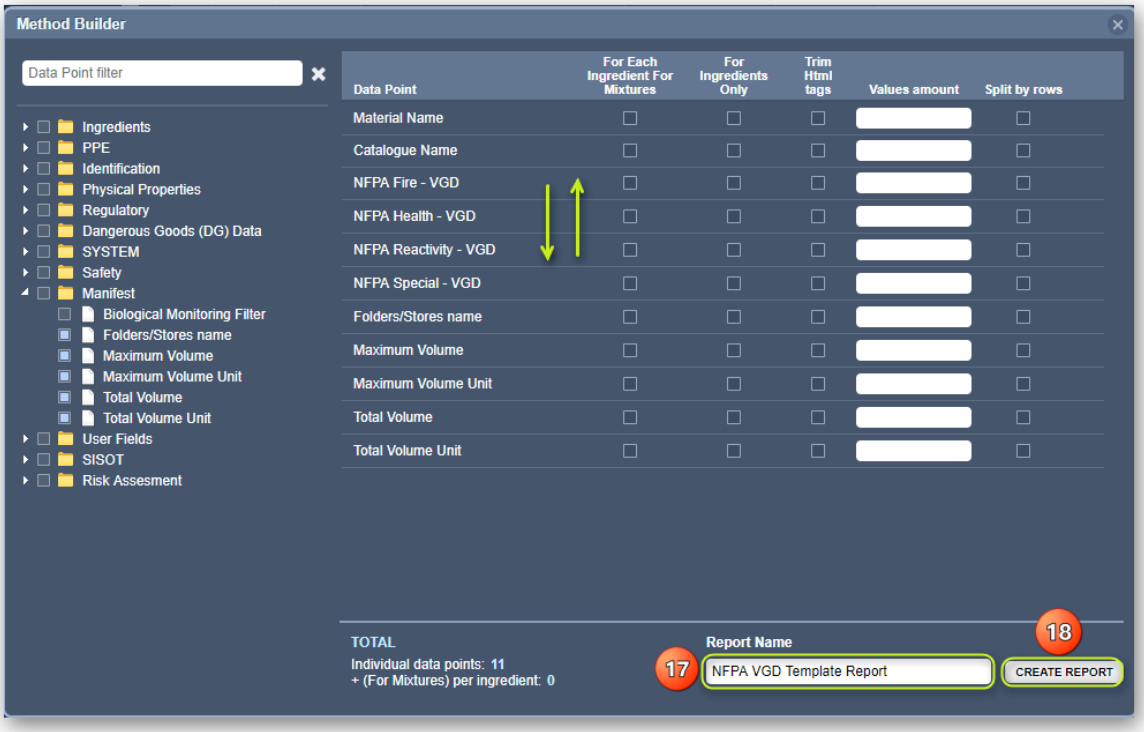
15. Scroll down to select the **expand arrow** **next** to the **Regulatory** folder directory to open the list of datapoints.
16. Click the **data points checkboxes** listed below or simply use the search field to type “NFPA” and look up for any related data points. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Regulatory	NFPA Fire, NFPA Health, NFPA Reactivity, NFPA Special VGD



17. Type the **Report template name** in the Report Name free text field.

The selected data points can also be rearranged in preferred order by using the drag and drop function to place a line item into the method builder grid on the right hand-side. This will assist in adjusting the data points in preparation for the export report so that there's no need to rearrange columns in the exported report spreadsheet.

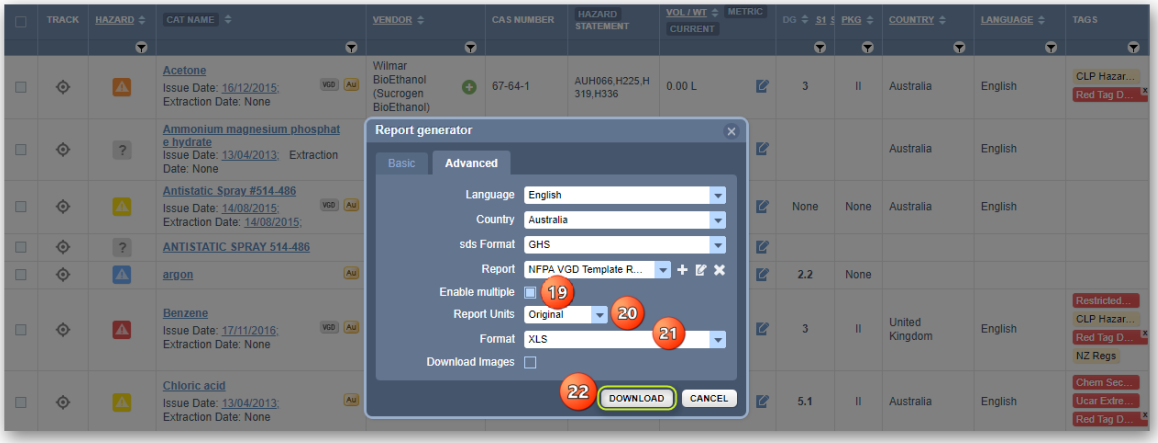


18. Press the **Create Report** button.

A confirmation message will display in the top middle of the user interface when the report is created, and the method builder window will close, and the report generator panel will be retained to continue the tasks below.

19. Select the "**Enable multiple**" checkbox.
20. Set the **Report Units** to "**Original**".
21. Select the **Format** from the drop-down arrow, e.g., xls format.

22. Press the **Download** button.



23. Choose a "**file location** " from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".
24. **Open** the downloaded file "NFPA VGD Template Report.xls".

25. The **report exports data** into the respective report format, e.g., spreadsheet .

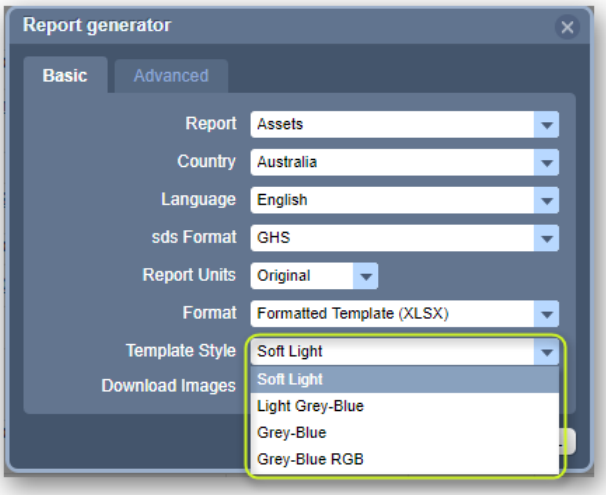
The NFPA VGD datapoints in the report template in the Advanced mode are dependent of availability of vendor data extraction for the inventory records. Companies or organizations that outside the US , may ignore this topic on generating NFPA related reports. Close the report generator panel by clicking the close icon or the cancel button CANCEL.

1.3 Generate Reports using Theme Formatted Styles

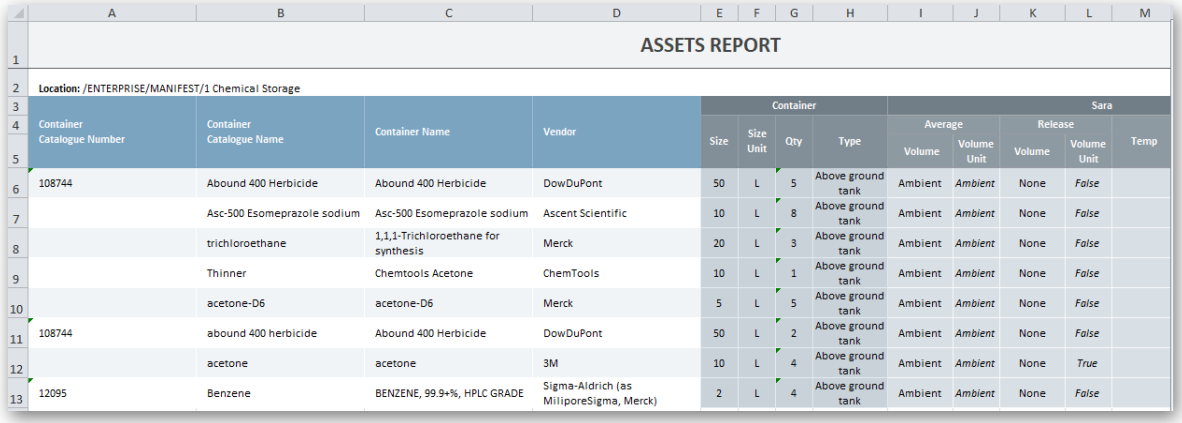
The Basic Mode Formatted Styles

Chemwatch has implemented various types of Formatted Template Styles in XLSX format, which encompass different themes. The template styles are available in the **Basic mode tab**, located in the "**Format**" field as themes:

- Soft Light
- Light Grey-Blue
- Grey-Blue
- Grey-Blue RGB



These themes come in presentation-ready styled sheets that have colour coded schemes. For example, an Assets basic report using the “Light Grey-Blue” template style is generated below.

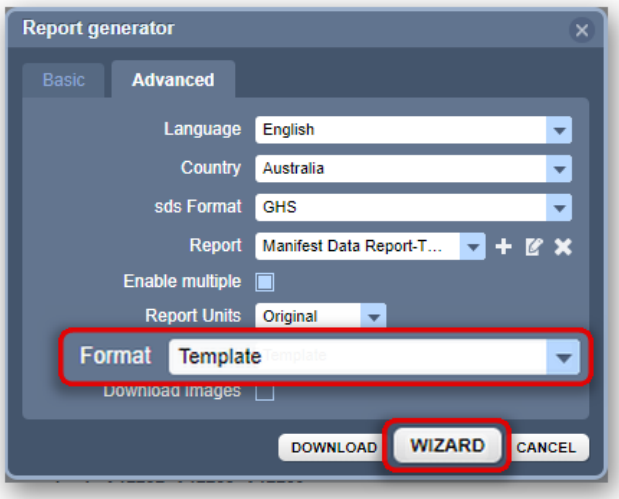


ASSETS REPORT

Location: /ENTERPRISE/MANIFEST/1 Chemical Storage

Container Catalogue Number	Container Catalogue Name	Container Name	Vendor	Container				Sara				
				Size	Size Unit	Qty	Type	Average Volume	Average Volume Unit	Release Volume	Release Volume Unit	Temp
108744	Abound 400 Herbicide	Abound 400 Herbicide	DowDuPont	50	L	5	Above ground tank	Ambient	*Ambient*	None	*False*	
	Asc-500 Esomeprazole sodium	Asc-500 Esomeprazole sodium	Ascent Scientific	10	L	8	Above ground tank	Ambient	*Ambient*	None	*False*	
	trichloroethane	1,1,1-Trichloroethane for synthesis	Merck	20	L	3	Above ground tank	Ambient	*Ambient*	None	*False*	
	Thinner	Chemtools Acetone	ChemTools	10	L	1	Above ground tank	Ambient	*Ambient*	None	*False*	
	acetone-D6	acetone-D6	Merck	5	L	5	Above ground tank	Ambient	*Ambient*	None	*False*	
108744	abound 400 herbicide	Abound 400 Herbicide	DowDuPont	50	L	2	Above ground tank	Ambient	*Ambient*	None	*False*	
	acetone	acetone	3M	10	L	4	Above ground tank	Ambient	*Ambient*	None	*True*	
12095	Benzene	BENZENE, 99.9+%, HPLC GRADE	Sigma-Aldrich (as MilliporeSigma, Merck)	2	L	4	Above ground tank	Ambient	*Ambient*	None	*False*	

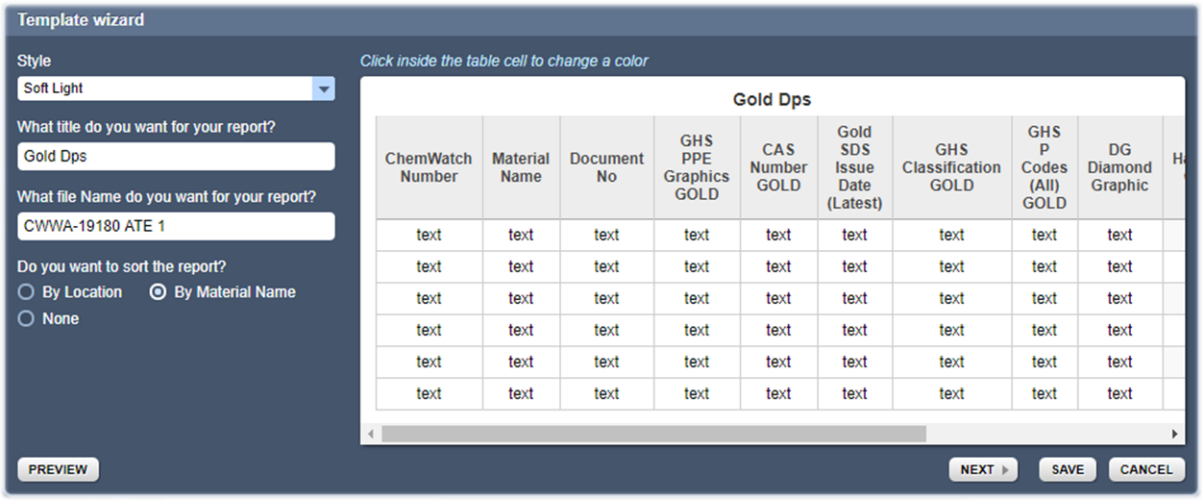
The Advanced Mode Formatted Styles



The newly "Formatted Template (XLSX)" will be triggered through the "Wizard" button WIZARD from the Report Generator panel when the format "Template" is assigned from the drop-down list of various formats.

The Wizard template provides radio buttons to be able to sort the report by these options:

- By Location
- By Material Name
- None



The template wizard contains the following elements to style your report:

Template Wizard Element	Report Options
Report **Style**	Choose the report style from the 4 options: **Soft Light, Light Grey-Blue, Grey-Blue, Grey-Blue RGB**
Report **Title**	Assign a Title to the Report ○ Gold Dps (Chemwatch Gold Datapoints) ○ VGD Dps (Vendor Gold Datapoints) ○ UGD Dps (User Gold Datapoints) ○ SISOT Dps (Assets and Containers Datapoints) ○ RA Dps (Risk Assessment Datapoints) *And many more…*
Report **Name**	Report file name during template creation.
Type of **Sort**	Sort the report by "Location" or "By Material Name or None.
Change **Cell Colour**	Table cells can be set to desired colour(s).
Report **Preview**	Enables preview content and style of the formatted report.

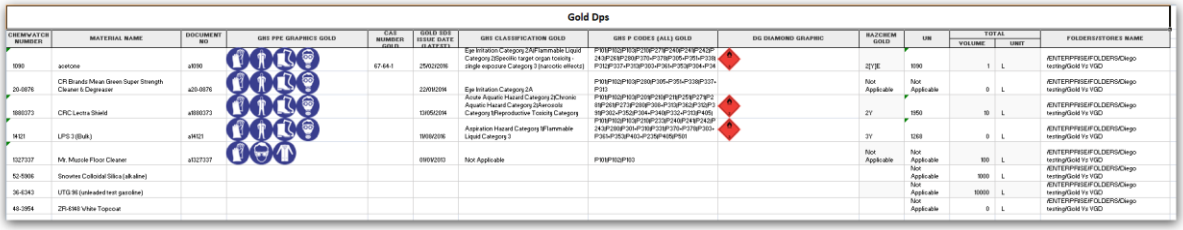
The template styles based reports can vary from a wide range of data points listed in the Method Builder directories.

The descriptions of the Method Builder data points can be found here. This means that these reports can contain datapoints for a range of common set of data:

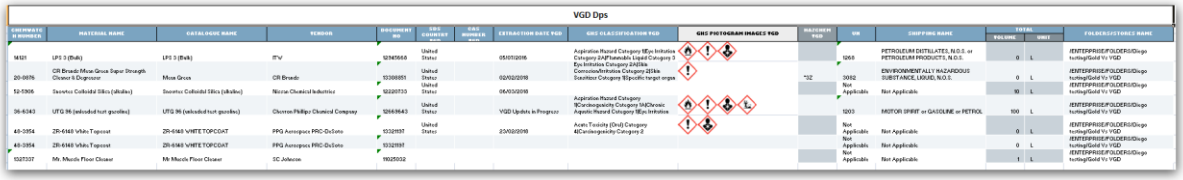
- Gold (Chemwatch Gold Datapoints)
- VGD (Vendor Gold Datapoints)
- UGD (User Gold Datapoints)
- SISOT (Assets and Containers Datapoints)
- RA (Risk Assessment Datapoints)

The samples of the advanced template reports based on the above data points are shown below.

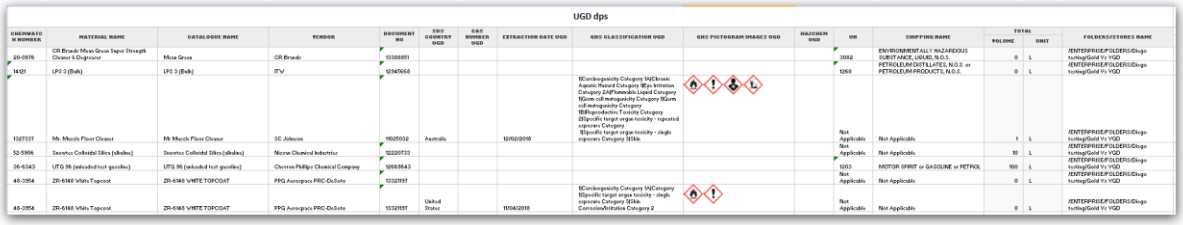
Gold (Chemwatch Gold Datapoints)



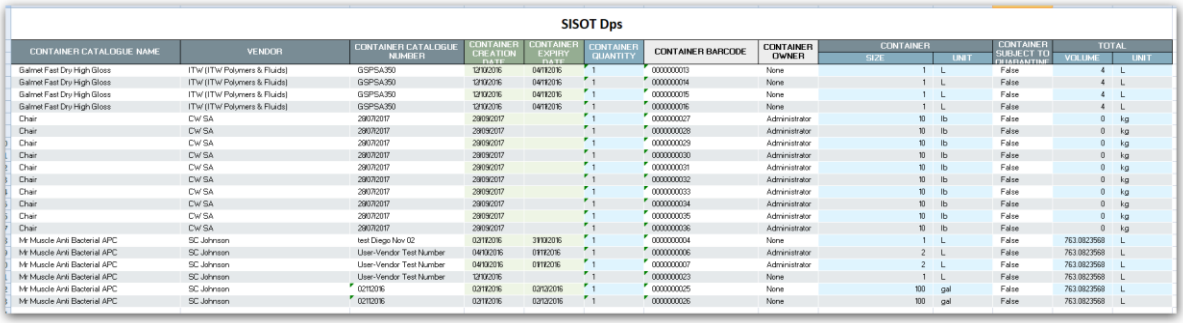
VGD (Vendor Gold Datapoints)



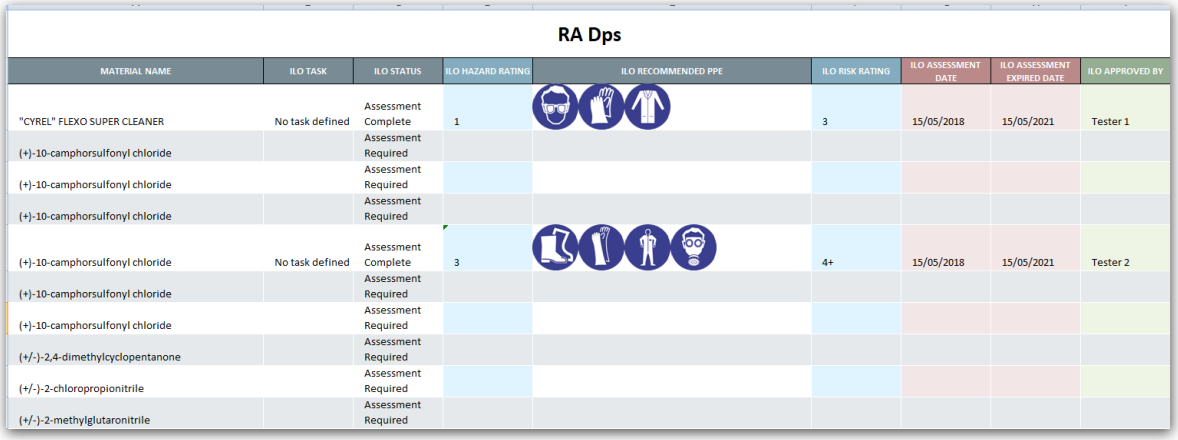
UGD (User Gold Datapoints)



SISOT (Assets and Containers Datapoints)



RA (Risk Assessment Datapoints)



RA Dps

MATERIAL NAME	ILO TASK	ILO STATUS	ILO HAZARD RATING	ILO RECOMMENDED PPE	ILO RISK RATING	ILO ASSESSMENT DATE	ILO ASSESSMENT EXPIRED DATE	ILO APPROVED BY
"CYREL" FLEXO SUPER CLEANER	No task defined	Assessment Complete	1		3	15/05/2018	15/05/2021	Tester 1
(+)-10-camphorsulfonyl chloride		Assessment Required						
(+)-10-camphorsulfonyl chloride		Assessment Required						
(+)-10-camphorsulfonyl chloride		Assessment Required						
(+)-10-camphorsulfonyl chloride	No task defined	Assessment Complete	3		4+	15/05/2018	15/05/2021	Tester 2
(+)-10-camphorsulfonyl chloride		Assessment Required						
(+)-10-camphorsulfonyl chloride		Assessment Required						
(+/-)-2,4-dimethylcyclopentanone		Assessment Required						
(+/-)-2-chloropropionitrile		Assessment Required						
(+/-)-2-methylglutaronitrile		Assessment Required						

How to Generate these Reports?

Consider this following overarching overview on Formatted Styles.

Note that before selecting an advanced formatted template, a report template must be created first, which can then be used to export the data by using the styles template wizard. Any selected datapoints during the creation of a template, those data points will be generated as columns in the exported report.

Format (Style) Template Report	1. Set Report Generator Report to "**Selected/Current Page/All** of your inventory list of materials in a folder
	2. Create a report template by selecting **data points** from the Method Builder window in Advanced Tab
	3. Select **the report template name and assign it to the new format template (advanced mode)**. Open the template wizard to assign report style and the type of sorting.

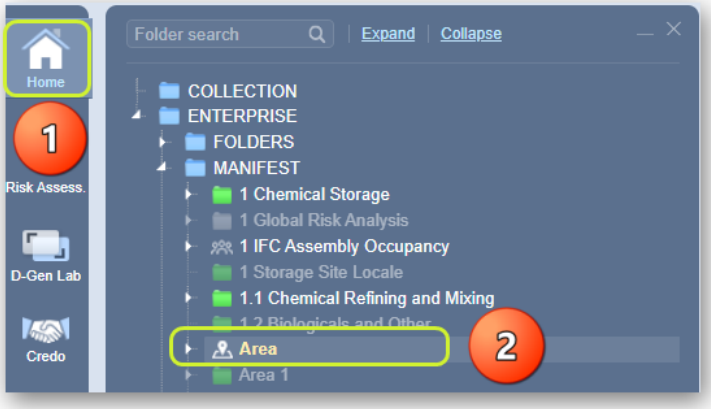
1.3.1 Generate a Theme Formatted Style Report in Basic Mode

The following steps demonstrate **how to use a basic template to export data to a spreadsheet using a theme formatted style.** In this worked example, the data will be exported from a folder node at the Area level 1 of the tree using the basic template name "Manifest locations and volumes GOLD" and the formatted style theme name "**Grey-Blue RGB**" colour scheme.

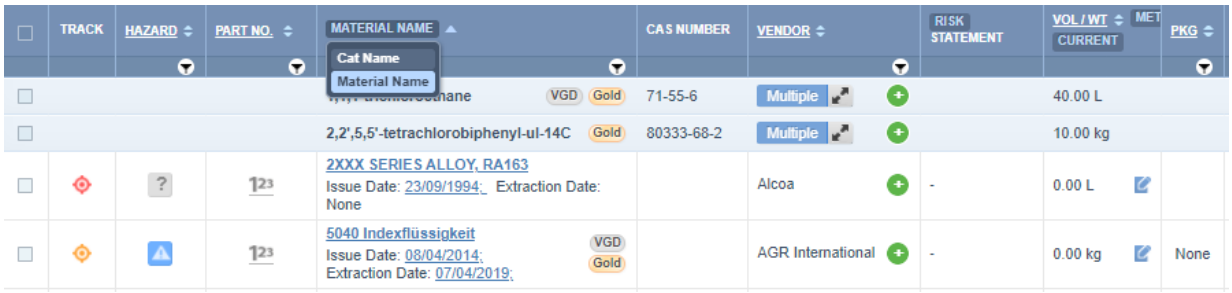
Steps: Generate a Them Formatted Style Report in Basic Mode

Open the **Home** module (if it's not already the default module).

1. **Expand** Manifest directory nodes to view the folder location, e.g., level 1 Area node.
2. Press the **Folder name**. Take note that the manifest list grid defaults to Cat Name.



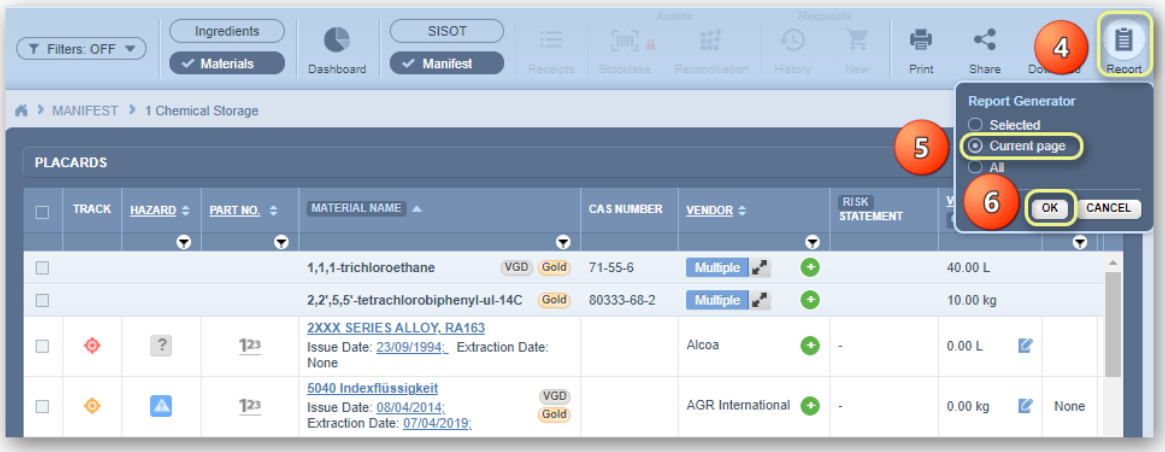
3. Change Cat Name header to **Material Name** to generate any data points based on Chemwatch GOLD data.



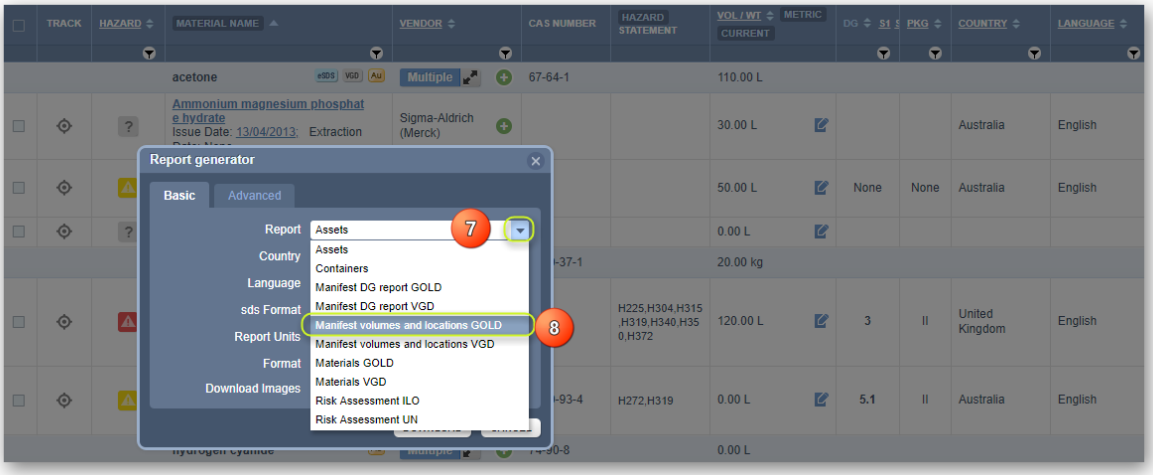
4. Click the **Report Generator** button at the top right corner of the user interface.

Ignore the default selection "Selected" and click **the Current page** radio button option.

5. Click **the OK** button,

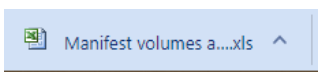


6. Select the **Report** field's drop-down arrow to list available report templates.
7. Select the **Report name** template from the list, e.g., Materials volumes and locations GOLD.



8. Select the **Country** from the drop-down arrow, e.g., Australia.
9. Select the **Language** from the drop-down arrow, e.g., English.
10. Select the **SDS format as GHS** from the drop-down arrow.
11. Select the **Report units** from the drop-down arrow, e.g., Original.
12. Select the **Format** from the drop-down arrow, e.g., Formatted Style.
13. Select the **Template Style** from the drop-down arrow, e.g., Grey-Blue RGB.
14. Press the **Download** button.

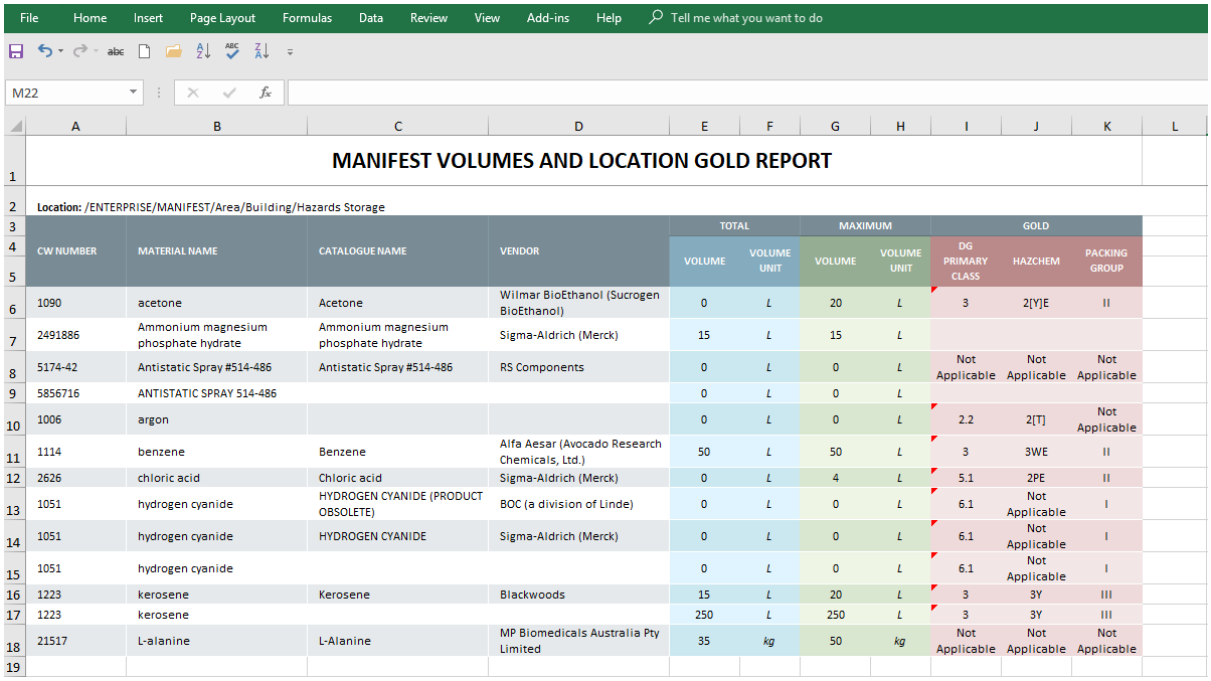
15. Choose a "**file location**" from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".
16. Open the downloaded file "Manifest volumes and locations GOLD".xls.



17. The report exports data into the spreadsheet based on the default Chemwatch datapoints.

The default datapoints in the report templates in Basic mode – Theme Formatted Styles have been created by Chemwatch and the information exported is inferenced to the data located from the source folder or location. Samples of these types of themes and formatted style reports based on the basic default templates are provided in the Appendix of this guide for reference.

Manifest volumes and locations GOLD Report



MANIFEST VOLUMES AND LOCATION GOLD REPORT

Location: /ENTERPRISE/MANIFEST/Area/Building/Hazards Storage

CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL VOLUME	TOTAL VOLUME UNIT	MAXIMUM VOLUME	MAXIMUM VOLUME UNIT	GOLD DG PRIMARY CLASS	GOLD HAZCHEM	GOLD PACKING GROUP
1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	2[Y]E	II
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	15	L	15	L			
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L	0	L	Not Applicable	Not Applicable	Not Applicable
5856716	ANTISTATIC SPRAY 514-486			0	L	0	L			
1006	argon			0	L	0	L	2.2	2[T]	Not Applicable
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L	50	L	3	3WE	II
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L	5.1	2PE	II
1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)	0	L	0	L	6.1	Not Applicable	I
1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	0	L	0	L	6.1	Not Applicable	I
1051	hydrogen cyanide			0	L	0	L	6.1	Not Applicable	I
1223	kerosene	Kerosene	Blackwoods	15	L	20	L	3	3Y	III
1223	kerosene			250	L	250	L	3	3Y	III
21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited	35	kg	50	kg	Not Applicable	Not Applicable	Not Applicable

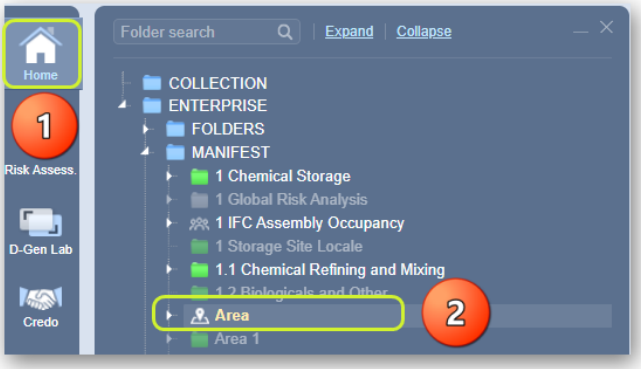
1.3.2 Generate a Theme Formatted Style Report in Advanced Mode

In the Report Generator Advanced mode, the wizard provides users with the ability to set a specific format template. The following steps show how to use the advanced template to export data to a spreadsheet using a theme formatted style. In this worked example, the data will be exported from a folder node at the Area level 1 of the tree using the basic template name "Manifest locations and volumes GOLD" and the formatted style theme name "Grey-Blue RGB" colour scheme.

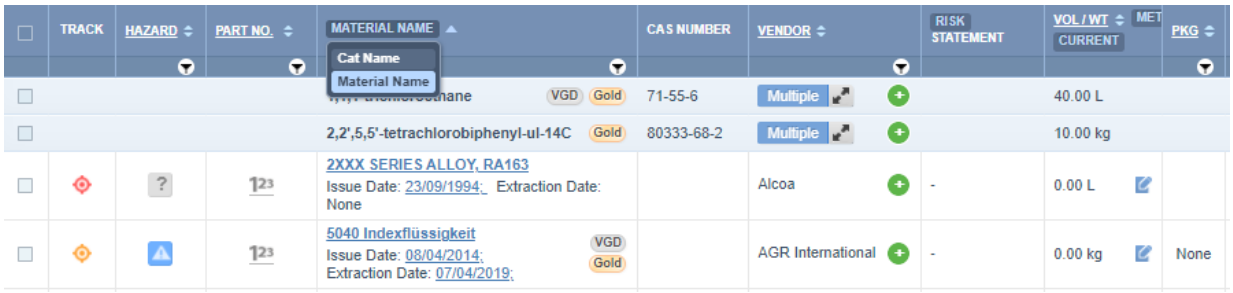
Steps: Generate a Them Formatted Style Report in Advanced Mode

Open the **Home** module (if it's not already the default module).

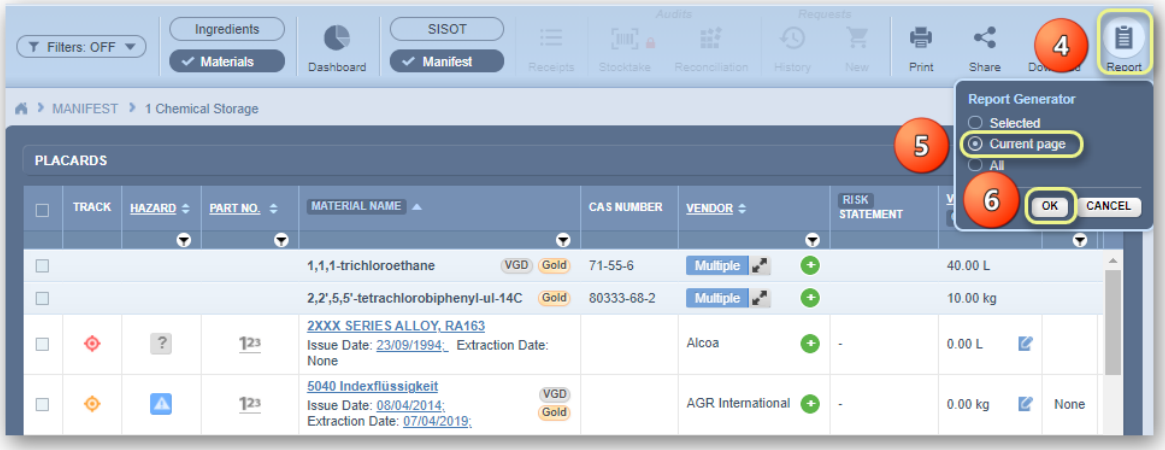
1. Expand Manifest Directory nodes to view the folder location, e.g., level 1 Area node.
2. Press the **Folder name**. Take note that the manifest list grid defaults to Cat Name. The default view mode is Cat Name.



3. Change Cat Name header to **Material Name** header in order to generate any data points based on Chemwatch Gold data.



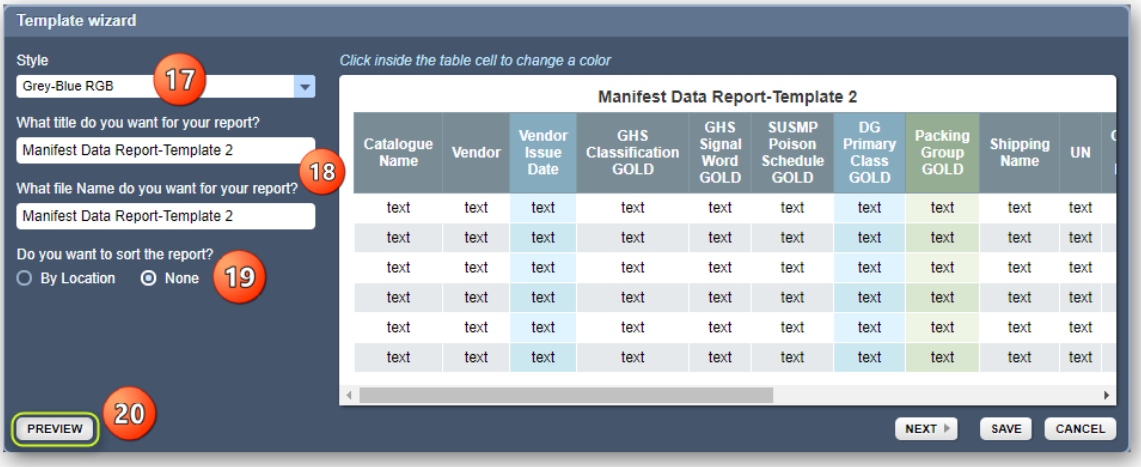
4. Click the **Report Generator** button at the top right corner of the user interface.
5. Ignore the default selection "Selected" and click **the Current page** radio button option.
6. Click **the OK** button.



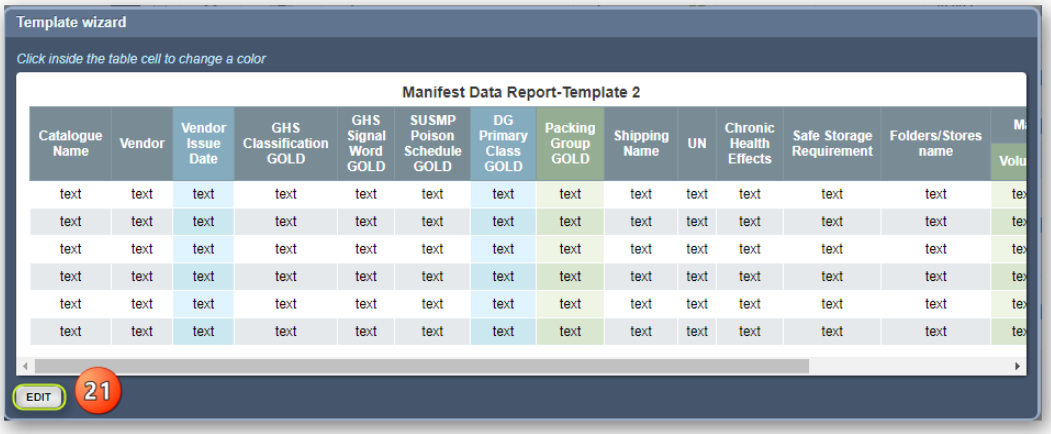
7. Press the **Advanced** tab from the report generator panel.
8. Select the **Language** from the drop-down arrow, e.g., English.
9. Select the **Country** from the drop-down arrow, e.g., Australia.
10. Select the **SDS format as GHS** from the drop-down arrow.
11. Select the **Report name** from the drop-down list of available report names (if any templates have been created). In this case, the Manifest Data Report created in section 3.2.1, will be selected for this worked example.

12. Select the **Enable multiple** checkbox.
13. Select the **Report units** from the drop-down arrow, e.g., Original.
14. Select the **Format** from the drop-down arrow, e.g., Template.
15. Select the **Download Images** checkbox.
16. Press the **Wizard** button to open the Template Wizard window.

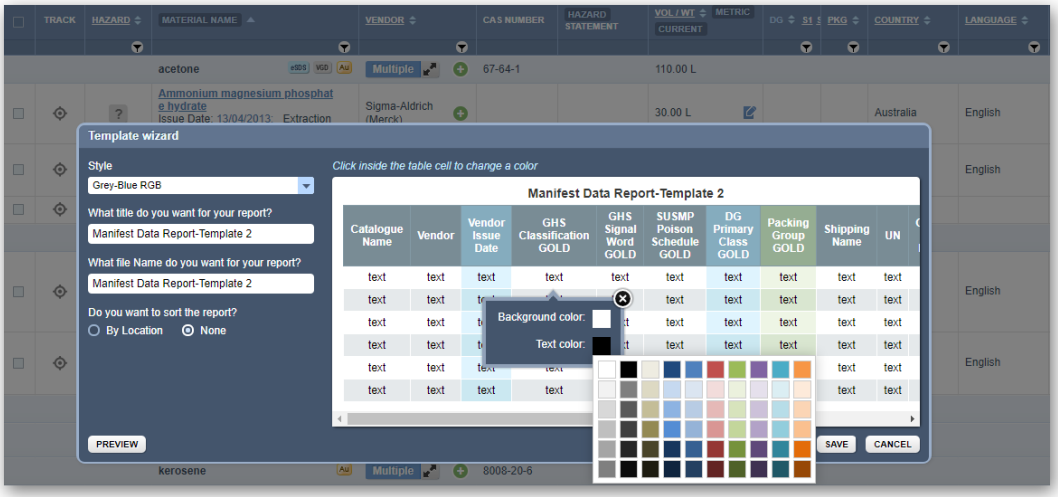
17. Select the **Style** from the Template Wizard drop-down arrow, e.g., Grey-Blue RGB.
18. Maintain the same report name and file name as per the selected **template report name** in step 11 above.



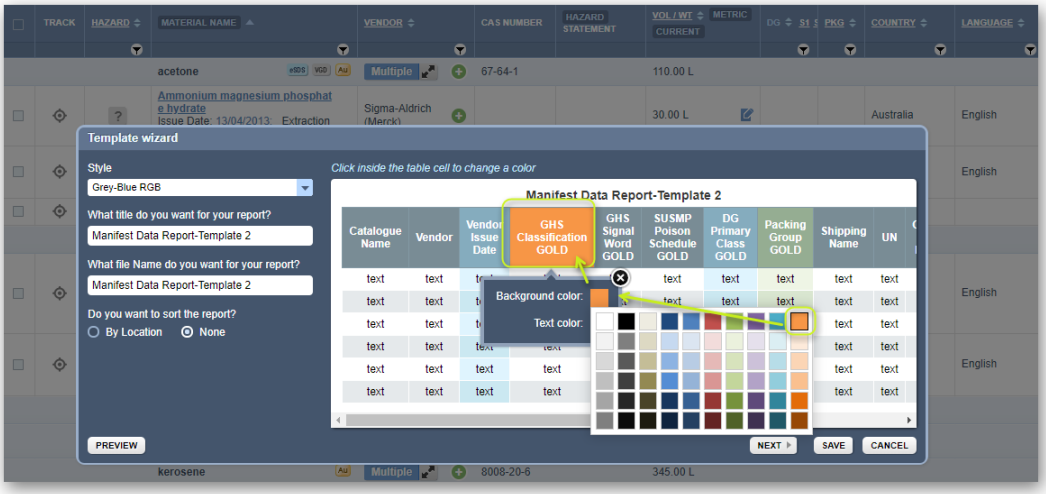
19. Select the sorting "By Location or **None**". In this worked example, no sorting is applied.
20. Press the "**Preview**" button on the bottom left on the Template Wizard to check how the report would look like.
21. Press the **Edit** button to go back to the edit mode.



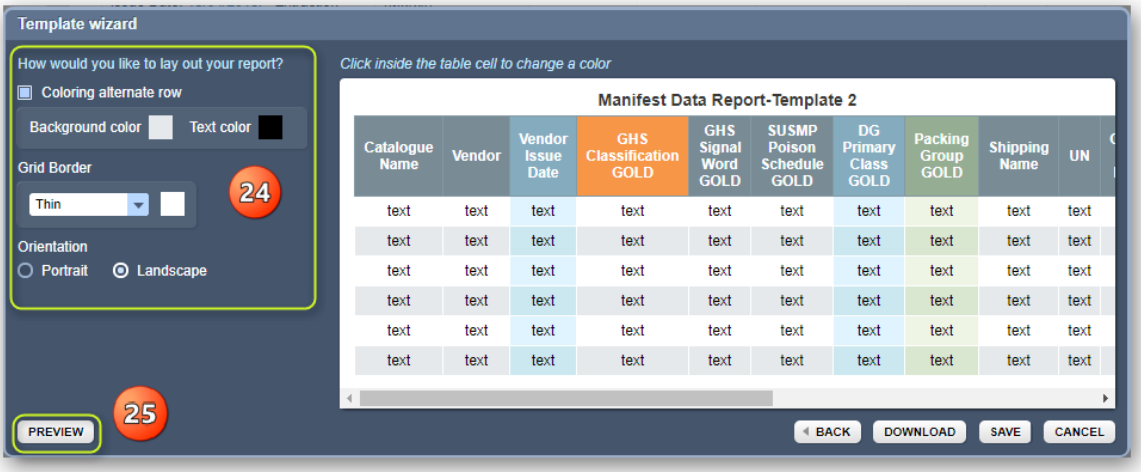
22. Click **Inside a cell** on the table to change a colour if need be. Choose the background color and/or the text colour by selecting the respective boxes. The default colour theme is shown below.



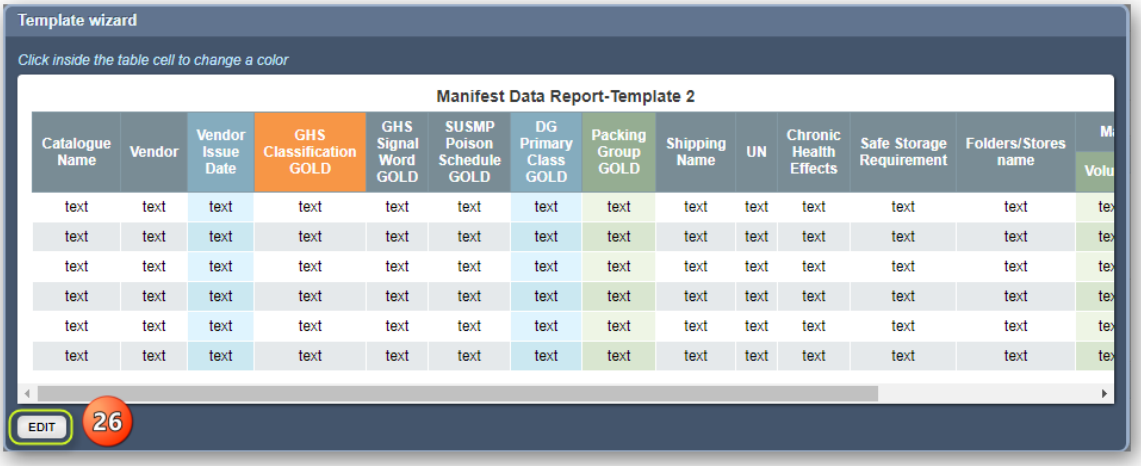
An example of an assigned colour change for a column cell has been selected below.



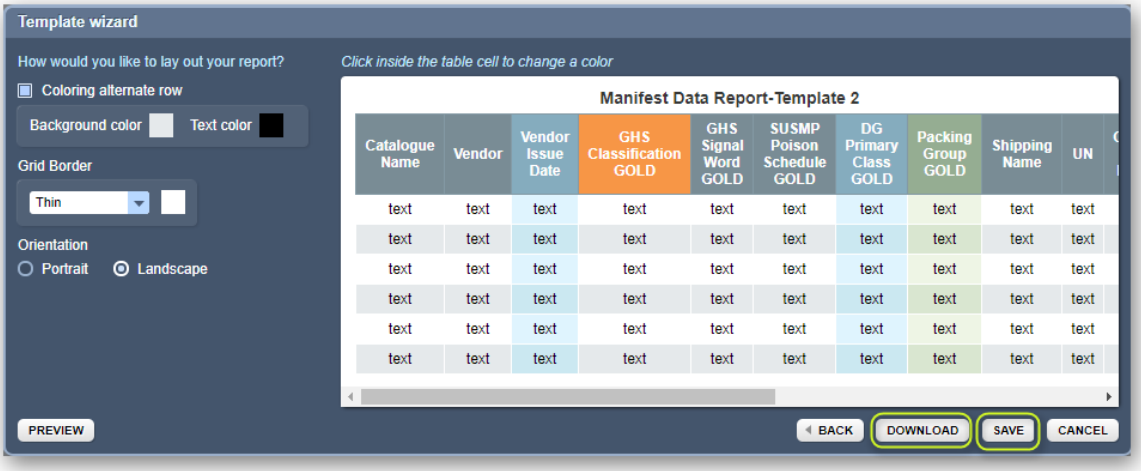
23. Press the **Next** button to change the layout and the coloring alternate row, grid border and orientation. The default coloring for the Grey-Blue theme is set to a white background, black text, a thin grid border and landscape orientation.
24. Set the respective **coloring alternate row**, **grid border** and **orientation (**portrait or landscape**).** Note that in this worked example, will maintain the default fields.



25. Press the "**Preview**" button on the bottom left on the Template Wizard to check how the report would look like.
26. Press the **Edit** button to go back to the edit mode.



27. Press the **Save** button to save the template for future use.

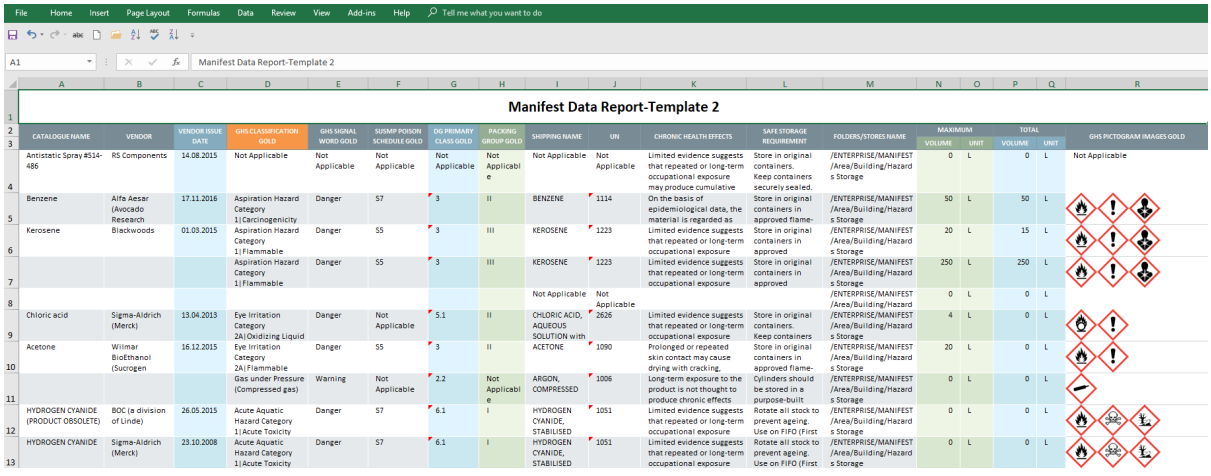


28. Press the **Download** button to export data.
29. Choose a "**file location**" from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".
30. **Open** the downloaded file "Manifest Data Report".xls.

31. The report exports data into the spreadsheet based on the selected Chemwatch datapoints.
32. Click the **Cancel** button on the Template Wizard and then press the close icon on the Report Generator panel.

The default datapoints in the report templates in the Advanced mode – Theme Formatted Styles have been created by Chemwatch and the information exported is inferenced to the data located from the source folder or location within the system's tree structure, which is data drawn from your company's inventory. Samples of these types of theme formatted style based on Basic mode templates are provided in the Appendix of this guide for reference. Close the report generator panel by clicking the close icon or the cancel button.

Manifest Data Template Report



1.4 Personal Protective Equipment (PPE) Data Points

The **Report Generator Advanced** tool ADVANCED provides users who have been granted access by the domain administrator with the ability to create/edit user dependent templates and use those user defined templates to generate reports. Chemwatch has made upgrades to the way users receive PPE information generated from your newly created templates using this advanced report generator mode. Previously, PPE data points generated an image and a URL address as output via the Report Generator.

Image:

	A	B	C	D	E	F
1	CHEMWATCH NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	GHS PPE GRAPHICS GOLD	ILO RECOMMENDED PPE
2	21-2846	Septone Methylated Spirits	Septone Methylated Spirits	ITW AAMTech		
3						

URL:

	A	B	C	D	E	F
1	CHEMWATCH NUMB	MATERIAL NAME	CATALOGUE NAME	VENDOR	GHS PPE GRAPHICS GOLD	ILO RECOMMENDED PPE
2	21-2846	Septone Methylated Spirits	Septone Methylated Spirits	ITW AAMTech	http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSGLV.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSOVE.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSBTS.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSHR.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSGGL.gif	http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSGLV.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSOVE.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSBTS.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSHR.gif|http://jr.chemwatch.net/Resources/Images/PPE/GHS/GHSGGL.gif

However, The URL address will be replaced for the PPE names, so you can view PPE information in a way that's easier to understand. There are no changes to the images generated - the PPE images will still appear as they always have.

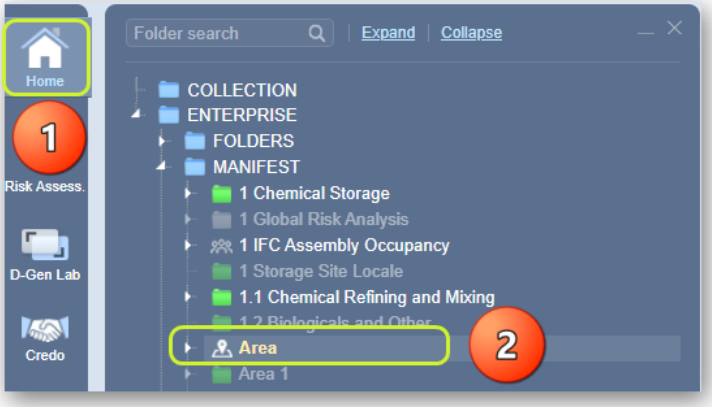
CHEMWATCH NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	GHS PPE GRAPHICS GOLD	ILO RECOMMENDED PPE
21-2846	Septone Methylated Spirits	Septone Methylated Spirits	ITW AAMTech	Gloves|Overalls|Boots|Half-Face Respirator|Goggles	Boots|Face protection|Long Gloves

The advanced user defined templates must be created using specific datapoints available in the Method Builder directory folders. The Method Builder contains a filter function to look up for a specific datapoint from the directory. Once datapoints are identified, e.g., PPE, those datapoints can be selected to add them to your template to be able to generate the information input to the report.

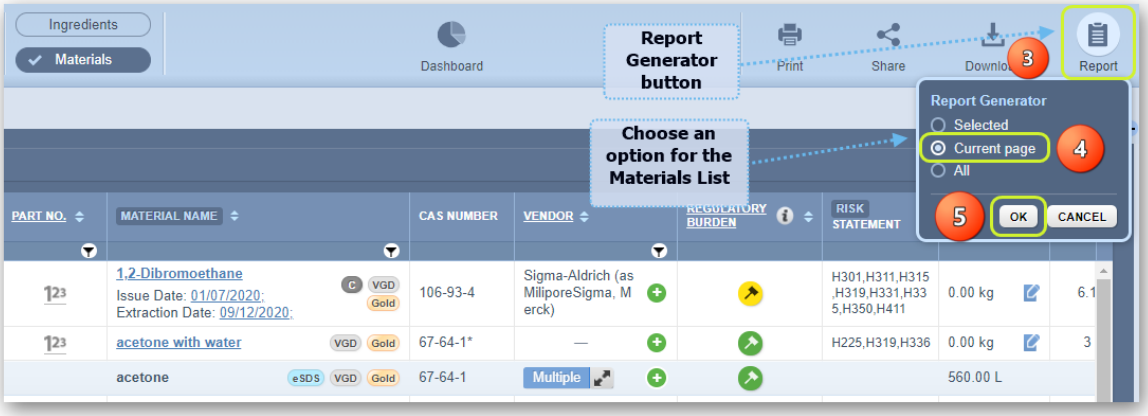
The following steps show how to create a template and export Manifest related data and graphics into a spreadsheet (xls format).

Steps: Creating a User Defined Template and Export Data to Generate a Report

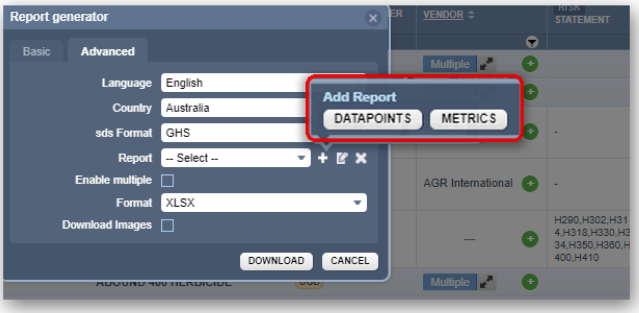
1. Open the **Home module** (if it's not already the default module).
2. **Expand** Manifest directory nodes to view the folder location, e.g., level 1 Area node.
3. Press the **Folder name**. Take note that the Manifest list grid defaults to Cat Name.



4. Click the **Report Generator** button at the top right corner of the user interface.
5. **Ignore the default selection** "Selected" and click the Current page radio button option.
6. Click the **OK** button.

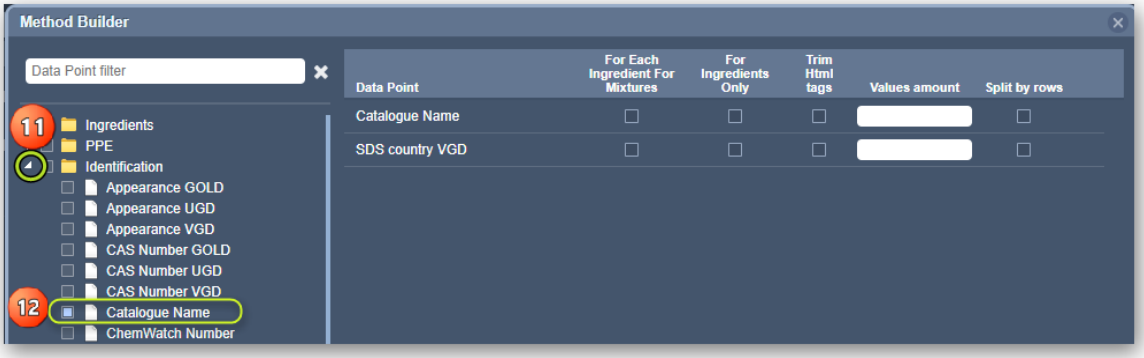


7. Press the **Advanced** tab from the report generator panel.
8. Select the **Country** from the drop-down arrow, e.g., Australia.
9. Select the **Language** from the drop-down arrow, e.g., English.
10. Select the **SDS format** as GHS from the drop-down arrow.
11. Hover move pointer over the **Add** + icon to open the method builder window in order to add data points and then create a report template. Click the Add Report Datapoints button to open the method builder window and create a report template.



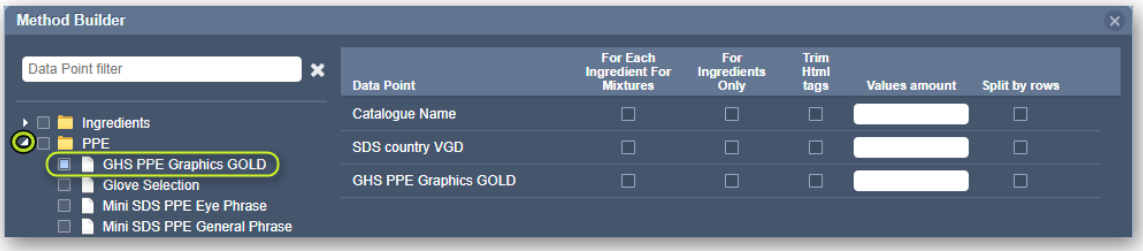
12. Select the **expand arrow** next to the **Identification** folder directory to open the list of datapoints.
13. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Identification	Cat Name, SDS Country, Vendor details, Vendor Issue Date



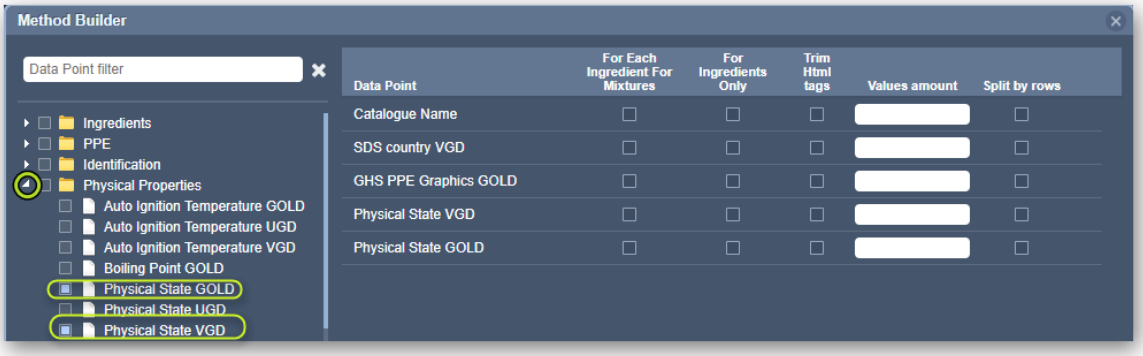
14. Scroll up to select the **expand arrow** next to the **PPE** folder directory to open the list of datapoints.
15. **Click** the **data point checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
PPE	GHS PPE Graphics



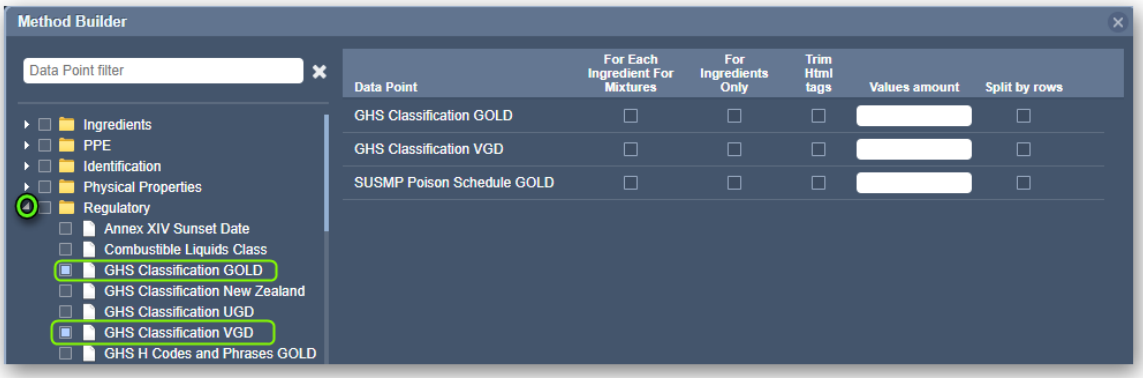
16. Scroll down to select the **expand arrow** **next** to the **Physical Properties** folder directory to open the list of datapoints.
17. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Physical Properties	Physical Sate



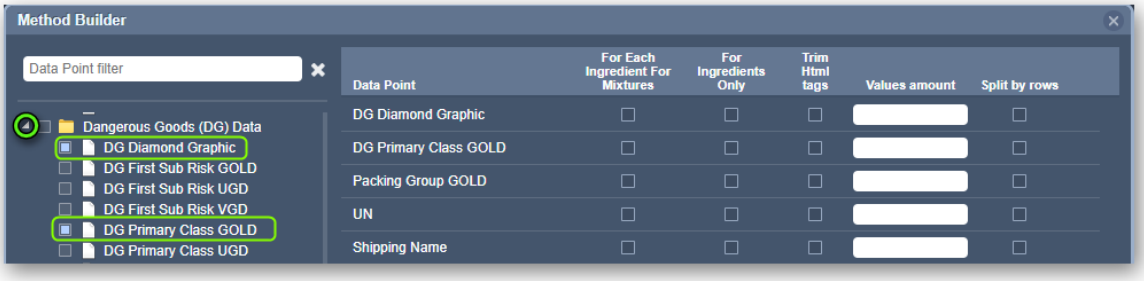
18. Scroll down to select the **expand arrow** **next** to the **Regulatory** folder directory to open the list of datapoints.
19. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Regulatory	GHS Classification, Signal Word, SUSMP



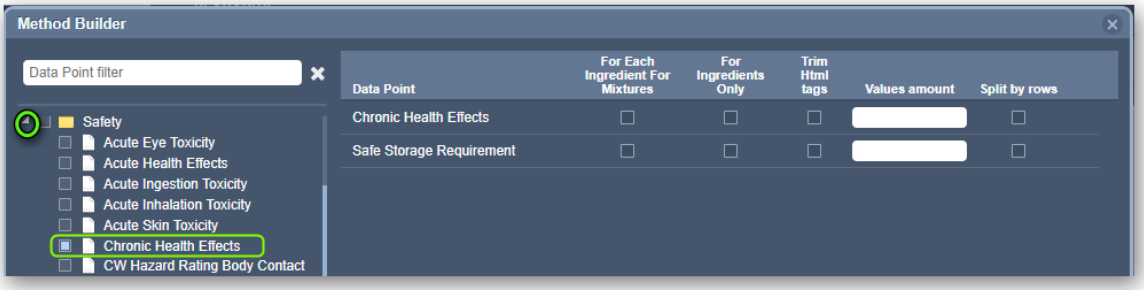
20. Scroll down to select the **expand arrow** **next** to the **PPE Data** folder directory to open the list of datapoints.
21. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Dangerous Goods (DG) Data	DG Primary Class, Packing Group, UN Number, Shipping Name, DG Diamond Graphic



22. Scroll down to select the **expand arrow** **next** to the **Safety** folder directory to open the list of datapoints.
23. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

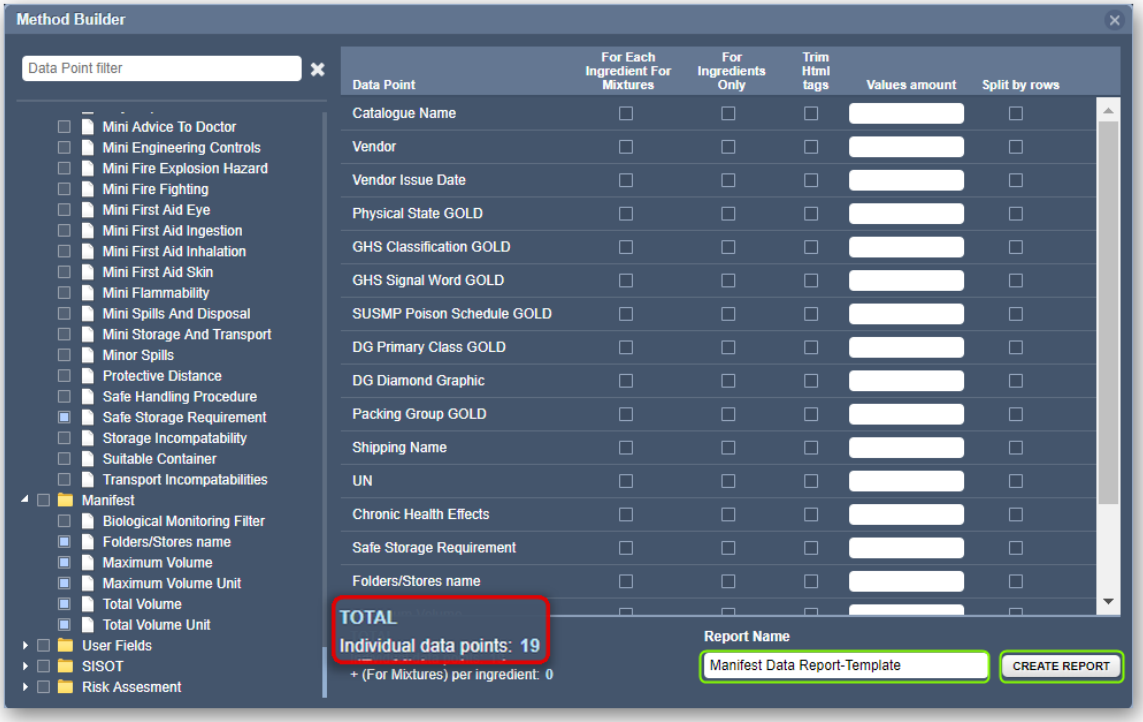
Directory	Method Builder Data Points
Safety	Health Effects, Safe Storage



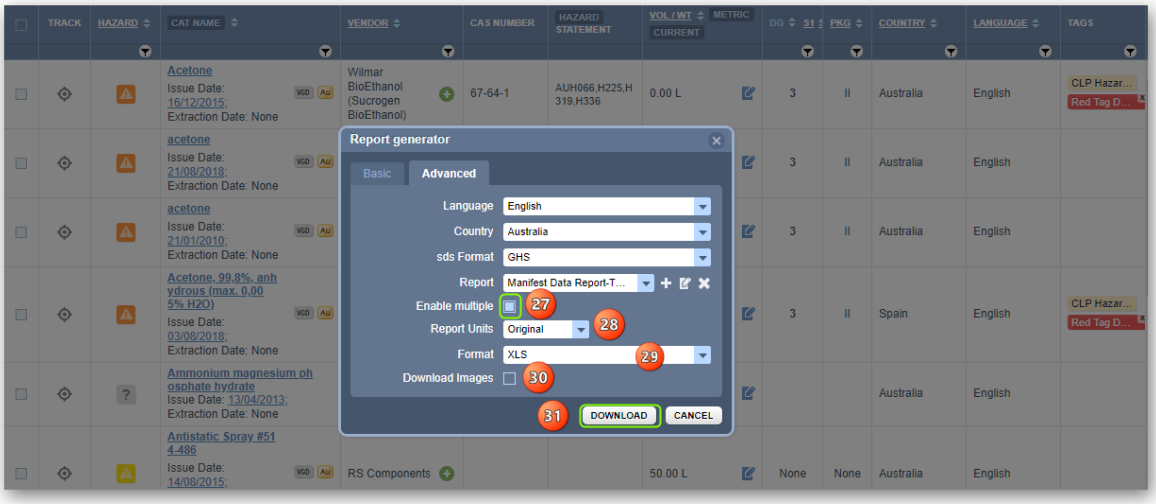
24. Scroll down to select the **expand arrow** **next** to the **Manifest** folder directory to open the list of datapoints.
25. **Click** the **data points checkboxes** listed below. Note that the selected data points will be automatically listed on the right-hand side pane for further editing.

Directory	Method Builder Data Points
Manifest	Folders/Stores Name, Max Volume, Total Volume, Units

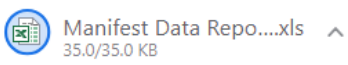
26. Type the Report template name in the Report Name free text field.
27. Press the **Create Report** button.



28. Select the "**Enable multiple**" checkbox.
29. Select the **Report units** from the drop-down arrow, e.g., Original.
30. Select the **Format** from the drop-down arrow, e.g., XLS.
31. Select the **Download** images checkbox.
32. Press the **Download** button.

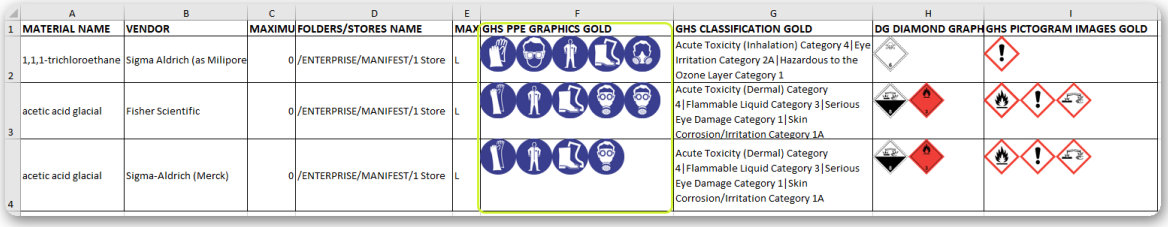


33. Choose a "**file location**" from the desktop/laptop to save the report if your desktop is not set to automatically save downloads to the "**Downloads Folder**".
34. **Open** the downloaded file "Manifest Data Report.xls".



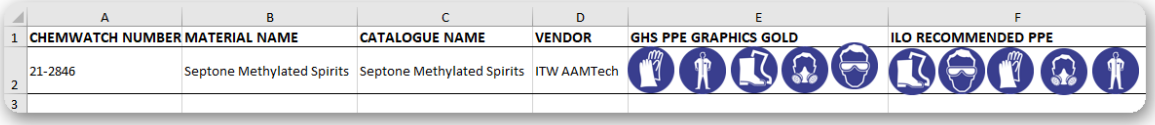
35. The report exports data into the respective report format, e.g., spreadsheet .

Manifest with GHS PPE Report



	MATERIAL NAME	VENDOR	MAXIMU	FOLDERS/STORES NAME	MAX	GHS PPE GRAPHICS GOLD	GHS CLASSIFICATION GOLD	DG DIAMOND GRAPH	GHS PICTOGRAM IMAGES GOLD
2	1,1,1-trichloroethane	Sigma Aldrich (as Milipore	0	/ENTERPRISE/MANIFEST/1 Store	L		Acute Toxicity (Inhalation) Category 4|Eye Irritation Category 2A|Hazardous to the Ozone Layer Category 1		
3	acetic acid glacial	Fisher Scientific	0	/ENTERPRISE/MANIFEST/1 Store	L		Acute Toxicity (Dermal) Category 4|Flammable Liquid Category 3|Serious Eye Damage Category 1|Skin Corrosion/Irritation Category 1A		
4	acetic acid glacial	Sigma-Aldrich (Merck)	0	/ENTERPRISE/MANIFEST/1 Store	L		Acute Toxicity (Dermal) Category 4|Flammable Liquid Category 3|Serious Eye Damage Category 1|Skin Corrosion/Irritation Category 1A		

ILO Recommended PPE Report



	CHEMWATCH NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	GHS PPE GRAPHICS GOLD	ILO RECOMMENDED PPE
2	21-2846	Septone Methylated Spirits	Septone Methylated Spirits	ITW AAMTech		

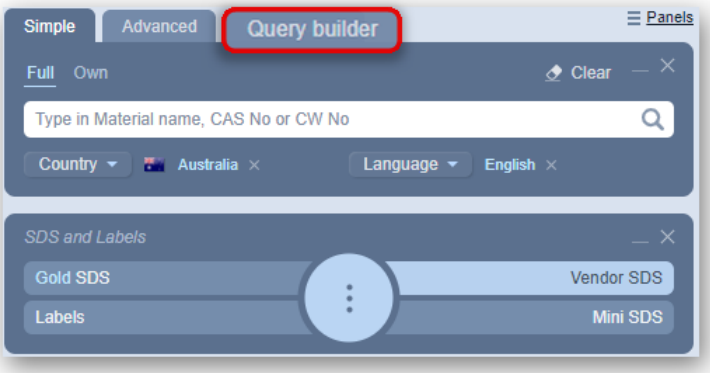
2.0 Query Builder (Advanced Query Search)

The main objective of this chapter is to demonstrate how to use the Query Builder search mode to create queries that can be used to query the database for specific chemicals of interest and associating a particular query with tags (optional).

WHAT YOU'LL LEARN

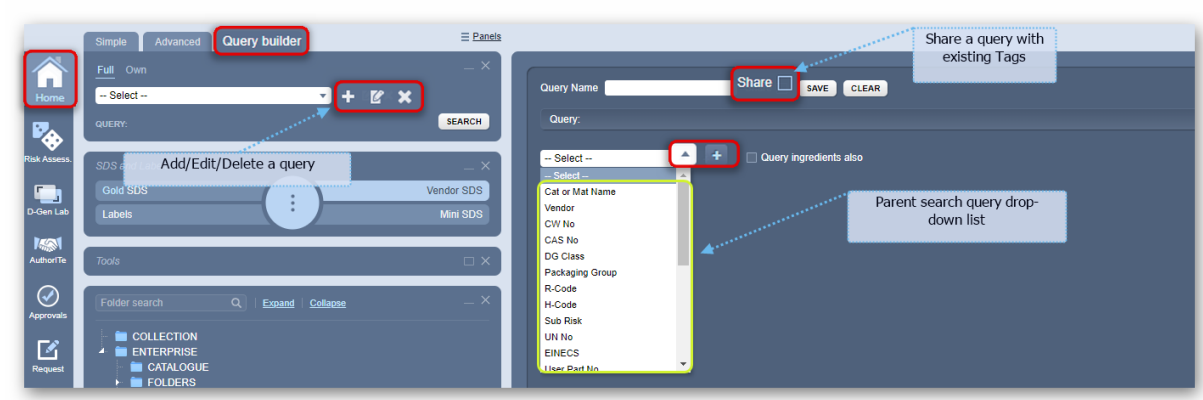
- → Create a query
- → Edit a query
- → Search by query name
- → Search operand
- → Query search by context menu
- → Query ingredients also
- → Share query
- → User accessibility to Query Builder mode

Query Builder search is designed for conditional construction of queries to search for specific information by using a set of rules and search properties. This type of search is referred to as "Query Builder advanced search criteria" and is accessible via the Query Builder tab within the Search Panel.



This extended search method provides users with the ability to look up for materials based on the following context:

- Search by creating a specific query
- Include Ingredients to the search Query (optional)
- Associate a query by using tags

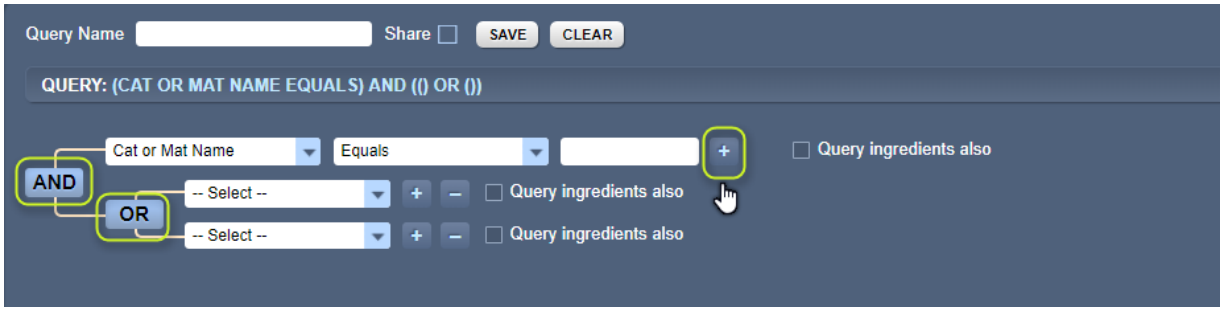


Note that Query Builder users must be granted permission to create, edit and use custom queries by the system's administrator within your company or organisation.

Logical Operands

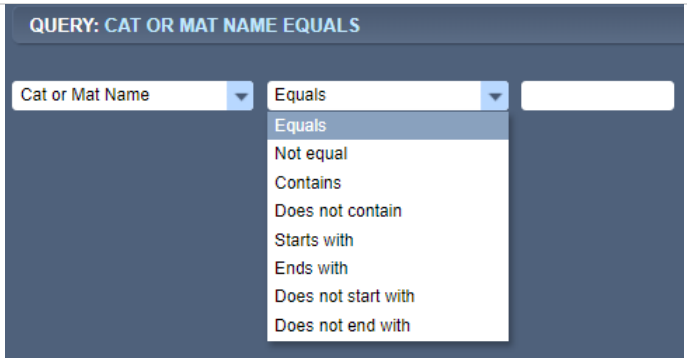
A query is built by selecting a search index from the context menu options and can also choose a database logical operand "AND, OR" for complex searches to extend the search further.

Operator	Description
AND	Retrieves records that contain the word or term
OR	Broadens the records that contain the word or term



Field Types

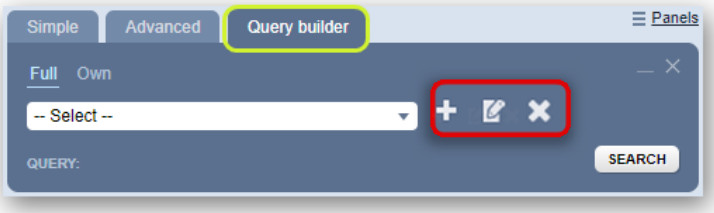
String values and numbers can be applied in a search query as per the following operands.

String Operands	Image – Drop Down List
Equals	
Not Equal	
Contains	
Does not contain	
Starts with	
Ends with	
Does not start with	
Does not end with	

Number Operands	Image – Drop Down List
=	

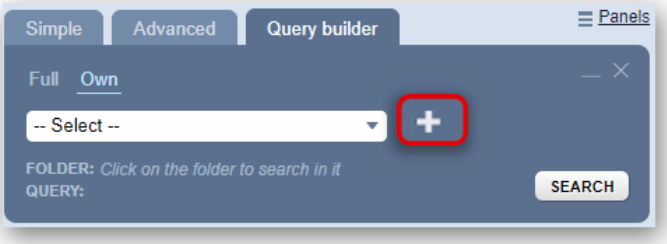
2.1 Add/Edit/Delete Query

The administrator has the full scope of the Query Builder mode's usage. **The Query Builder mode will show the three buttons to "Add", "Edit" or "Delete" queries.**

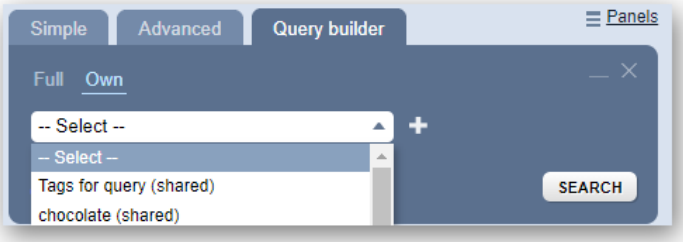


Button	Description
Add	The Add button enables a user to create a query
Edit	The Edit button provides a user with the ability to edit an existing query
Delete	The Delete button allow a user to remove a query

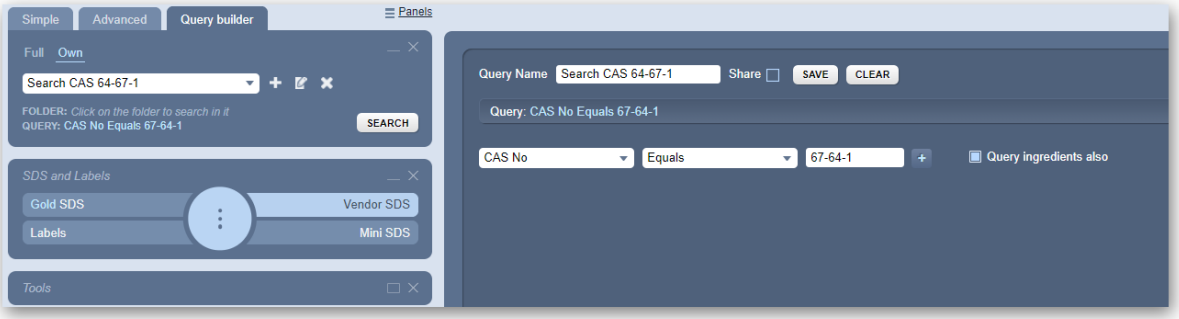
Users other than the ADM/SDM will be able to use already existing queries within their domain to query the database (Full/Own) but cannot edit those queries.



The query builder mode will show only the “Add” button to allow such users to create their own queries but cannot edit existing queries that they did not create/own.



If a user creates own query, that user will be able to see the edit functions alongside the name of the query as shown below.

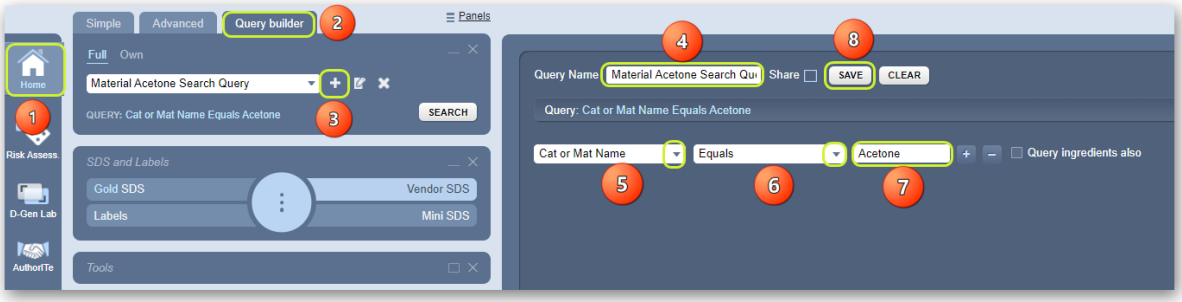


2.2 Add (Create) a Cat Name or Material Name Query

The steps below illustrate how to add (create) a search query for a Cat or Material Name that equals “Acetone”. This search query excludes ingredients.

Steps: Creating a Cat or Material Name Query

1. Select the **Home** module button .
2. Press the **Query Builder** tab from the Search Panel.
3. Click the **Add** icon .
4. Type the **query name** in the query name text field, e.g., Material Acetone Search Query.
5. Click the **drop-down arrow** to select the "Search option from the drop-down list.



6. Click the **drop-down arrow** to select the string operand, e.g., Equals.
7. Type the name of the **Material**, e.g., Acetone.
8. Click the **Save button** to complete the creation of a material name search query.

A confirmation message display. 

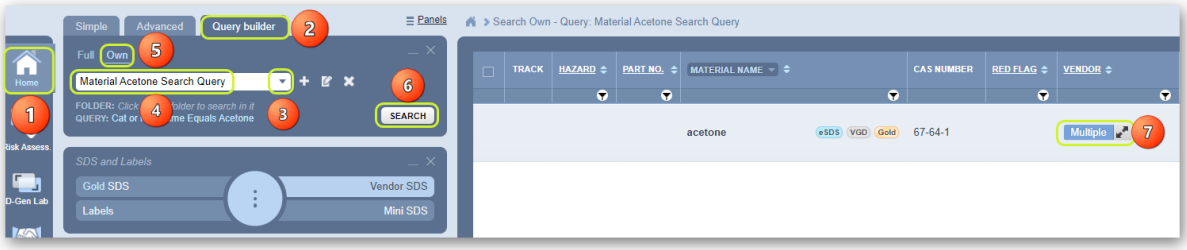
2.3 Search by Cat or Material Name Query

The steps below illustrate how to use the created search query for "Acetone". Note that the search query excludes ingredients.

Steps: Search by Cat or Material Name Query

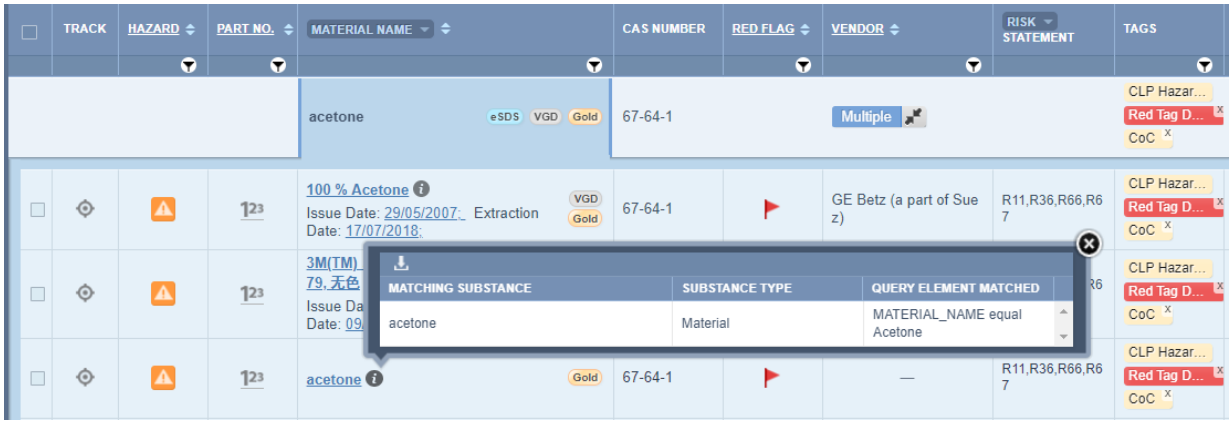
1. Select the **Home** module .
2. Press the **query builder** tab from the Search Panel.
3. Click the **drop-down arrow** from the query builder search panel's field to list the available search options.
4. Click the "**query name**, e.g., Material Acetone Search Query.
5. Click the Full or **Own** link to specify the database path.
   "Own" option refers to your own's company or organization's inventory within the Chemwatch Database collection.
6. Click the SEARCH button to start the query.

7. Click the Multiple button to expand material name row to cat name (product names) associated with the found material.



The query search results display the name(s) of cat name(s) with respective vendor.

8. **Hover mouse pointer** on the cat name's information icon view more details on the pop-window.



2.4 Search by a Query that Contains an Operand

The steps below illustrate how to Add (Create) a query that contains an operand, equates to cat or material "Acetone" and then search the database. Note that the query excludes searching the database for "ingredients also".

Steps: Create a Query that Contains an Operand

1. Select the Home module.
2. Press the **Query Builder** button from the Search Panel.
3. Click the **Add** icon.
4. Type the **query name** in the query name text field, e.g., Complex Query for H225 by Sigma.
5. Click the **drop-down arrow** to select the search option from the drop-down list.
6. Choose the search option **H-Code.**
7. Click the **drop-down arrow** to select the string operand, e.g., Contains.
8. Type the hazard code classification **(H-Code)**, e.g., 225.

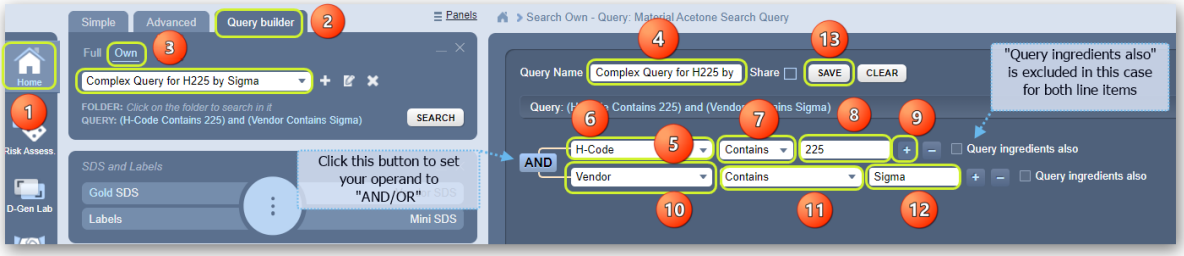
9. Click the + button to add another string.

   Note that another line operand will be added and will default to the logical operand "AND". If you choose to change this operand, click on this "AND" button and it will change to "OR" for the desired operation to meet your search criteria.

10. Click the **search option's** drop-down arrow to add another search index, e.g., Vendor.
11. Assign the search operand, e.g., Contains.
12. Type the name of the **Vendor** in the text field, e.g., Sigma.

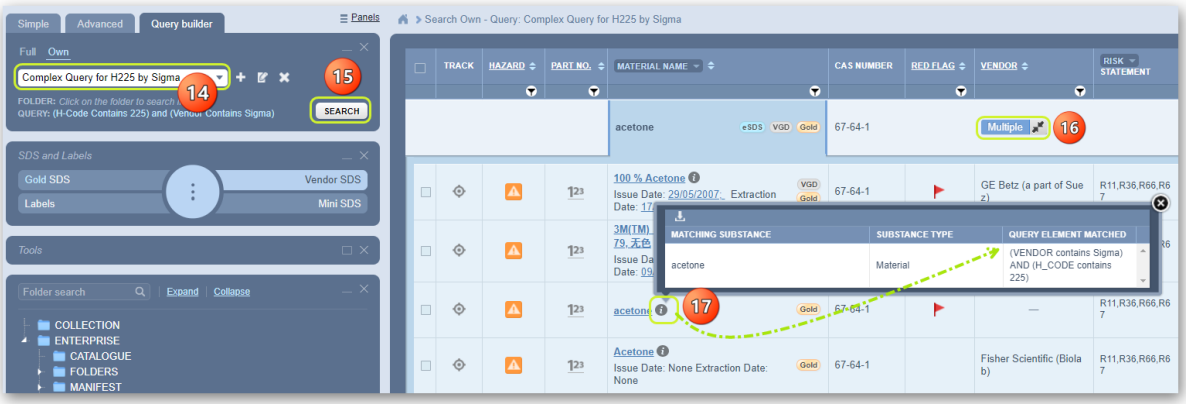
    Note that this query will exclude ingredients.

13. Click the **Save** button to complete the query creation.

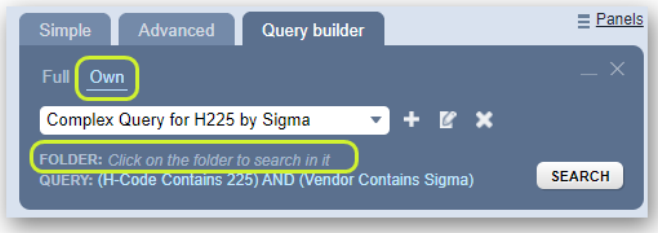


A confirmation message is displayed. Query has been saved successfully

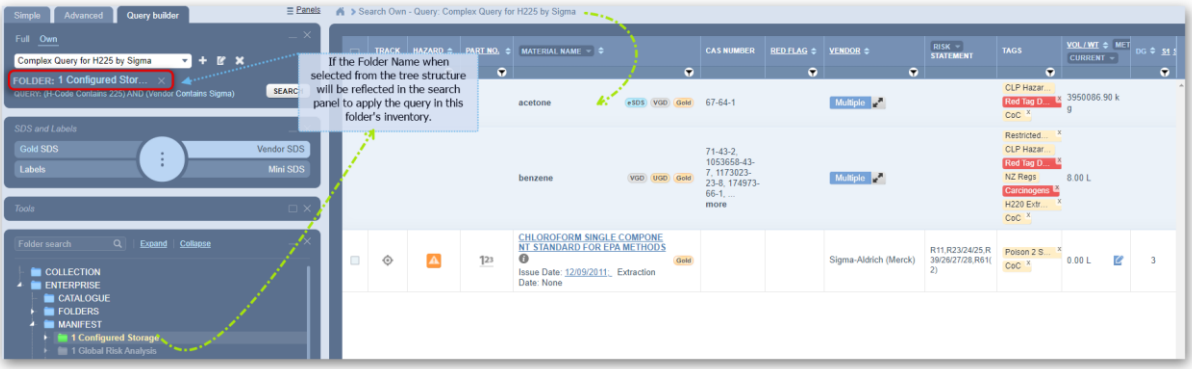
14. Use the **main query builder search field's drop-down arrow** to select this newly added query to search the "Own" database.
15. Click the SEARCH button.
16. Click the Multiple button to expand material name row to cat name (product names) associated with the found material.
17. **Hover mouse pointer** on the cat name's information icon view more details on the pop-window.
18. You may close the pop-up window by clicking on the icon.



If you search in “Own” the system provides information under the main search field to choose a folder that can be used to search in it for that particular search query.



The example below displays a selected folder name/location when for a query. In this case, the query name “Complex Query for H225 by Sigma” has been used to find any records that meet this criterion.



2.5 Regulation Name Search Query

Chemwatch has improved the **Query Builder’s Search Mechanism** to look up for Regulation Name within the directory listing of regulatory lists. This new search criterion has been indexed against each list for searching by a **word** or **keyword(s)** to return main results from the Regulatory Listing.

What is a Regulatory List?

The regulation of chemicals is managed through respective legislative arrangements by use of a wide variety of national, regional laws and international agreements, conventions or strategies. The legislative instruments provide regulatory lists of chemicals to be implemented at the local level as well as exposure or emission limits. For example, chemicals in Europe are managed by the REACH (Registration, Evaluation and Authorisation and Restriction of Chemicals) and the CLP (Classification, Labelling and Packaging) regulations.

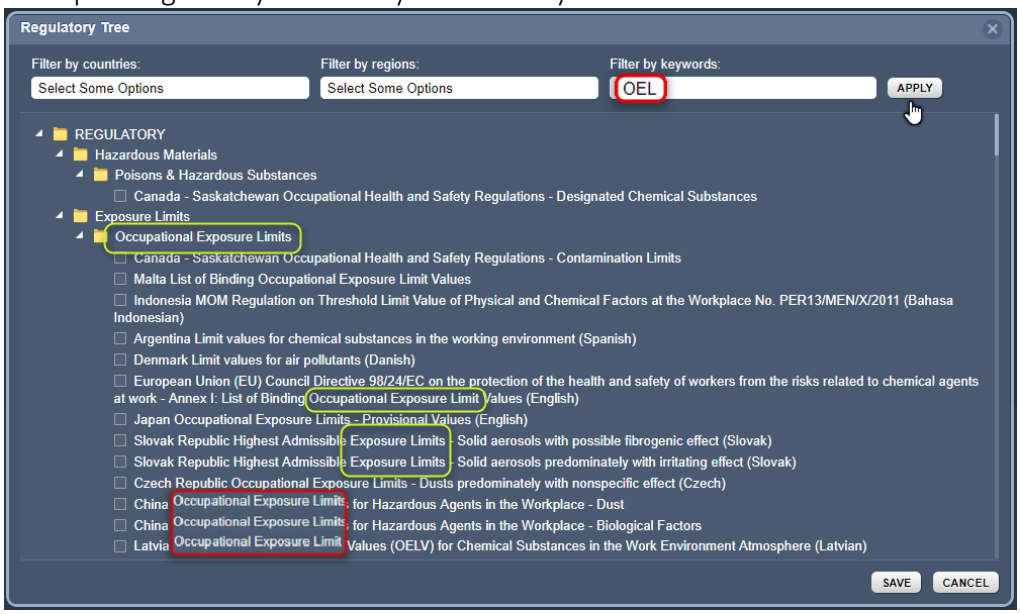
What is expected from you?

To search/filter for a Regulatory Name, simply type a keyword, e.g., OEL (Occupational Exposure Limit) that you know is contained in the Regulatory List and press the **Apply** button from the Regulatory Tree to look up.

Expected Search Result

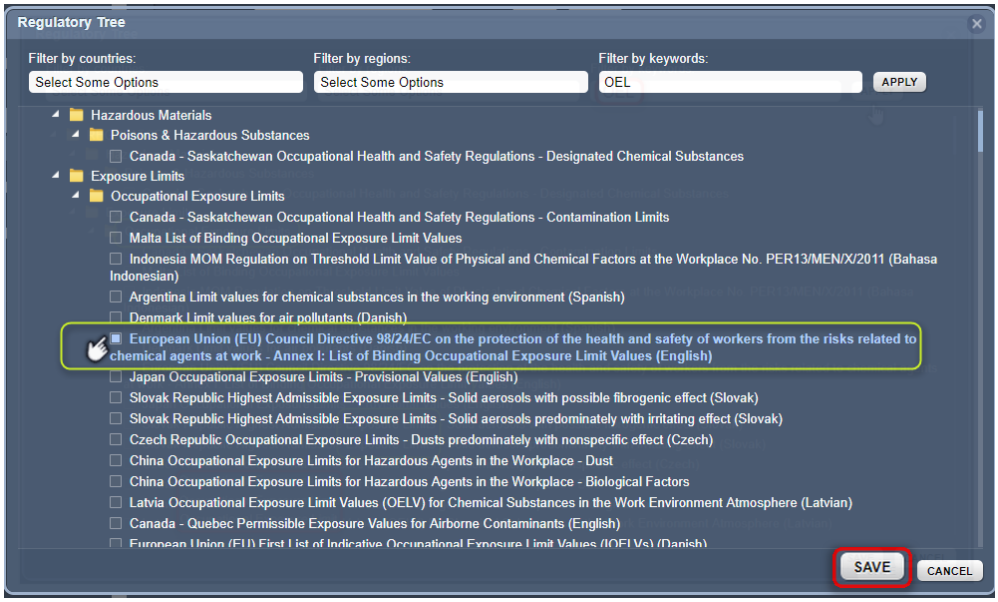
The Regulatory Tree expands to the respective location directory/folder in relation to the filtered keyword index for any found record, e.g., OEL (Occupational Exposure Limit); will expand the Regulatory Tree to display any existing Regulatory List that contains the key word or acronym. Select the checkbox alongside regulation name to save.

Example: Regulatory Tree – keyword acronym's search results

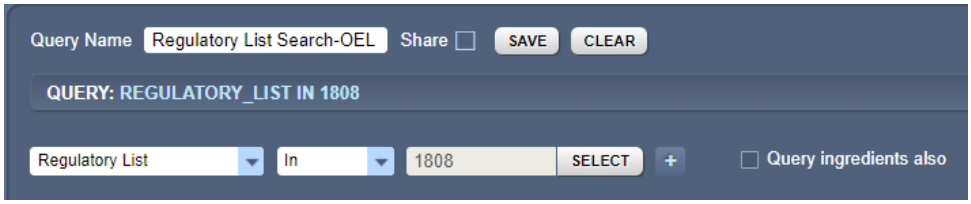


What to do with a found Regulation Name?

Save the selected Regulation Name into your Query Builder Search Name.



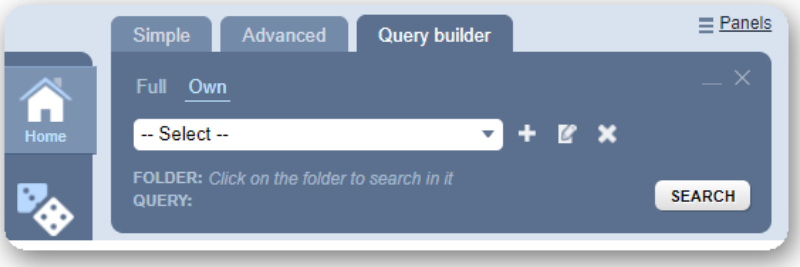
Complete your Query Name Search criteria and save it for future use.



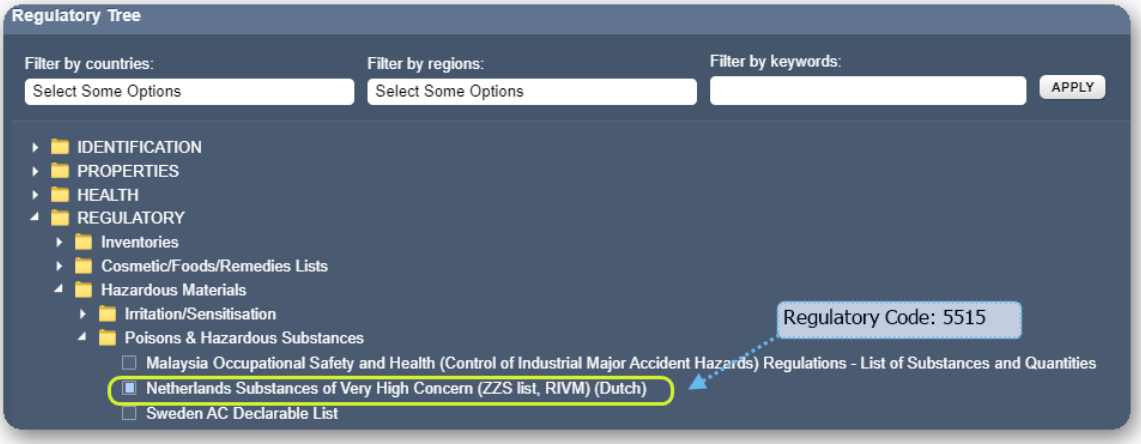
Regulatory List Tag Improvement in Query Builder

Regulatory List codes have now been tagged with the applicable Regulation name in the Query Builder Regulatory Tree.

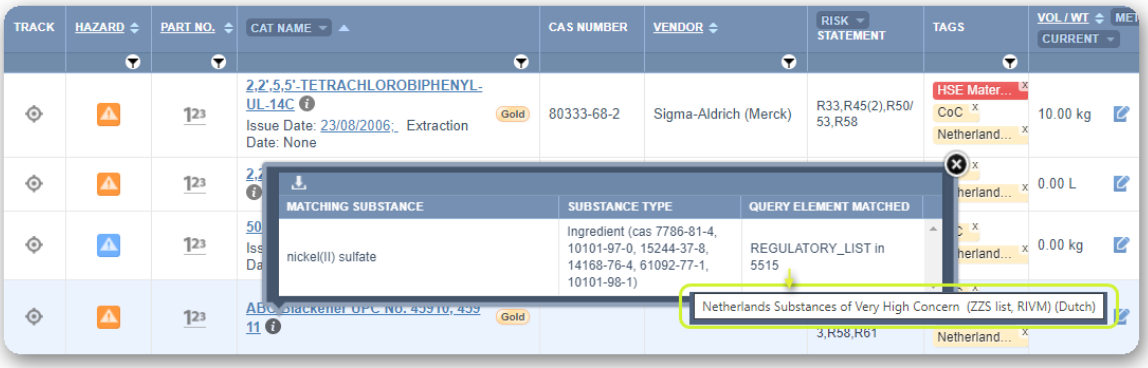
Query Builder Mode



Regulatory Tree in Query Builder Mode



This improvement will help you when creating regulatory related queries and the respective search results to easily identify the corresponding Regulatory List code with the full Regulatory Name where the material is listed.



Note that ONLY the materials that are found in a Regulatory List will contain the information icon within the grid to view the matching substance's query element matched in the database.

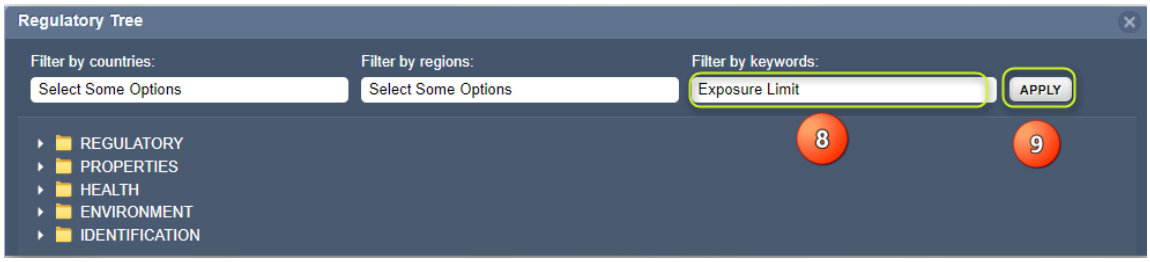
2.5.1 Create a Regulation Name Query

The steps below illustrate how to create a "Regulation Name" query that will enable the search for materials found in the Regulatory List. Note that this worked example below does not include querying ingredients.

Steps: Add (Create) a Regulation Name Query

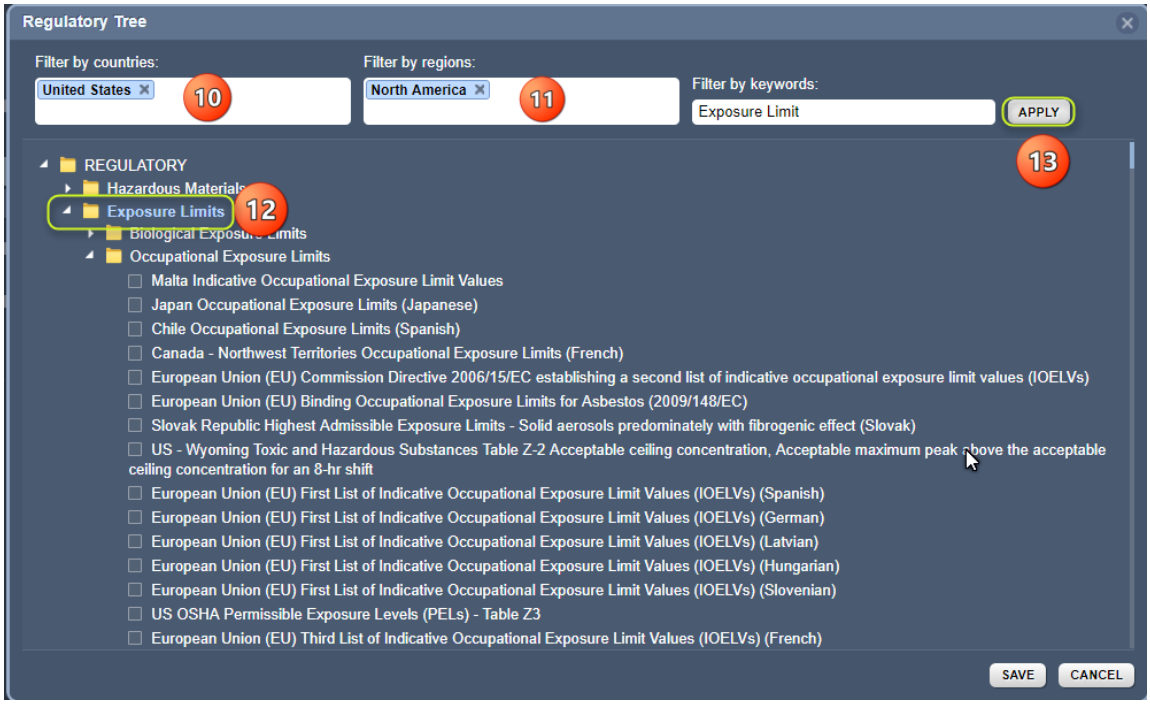
1. Select the Home module.
2. Press the **Query Builder** button from the Search Panel.
3. Click the **Add** icon.
4. Type the **query name** in the Query Name text field, e.g., Regulation Name Query.
5. Click the **drop-down arrow** to select the Search option from the drop-down list.
6. Choose the search option "**Regulatory List".**

7. Click the SELECT button to **filter by region, country or key word.**
8. Type a Keyword, e.g., **Exposure Limit.**
9. Click the **Apply** button to filter the Regulatory Database by keyword.

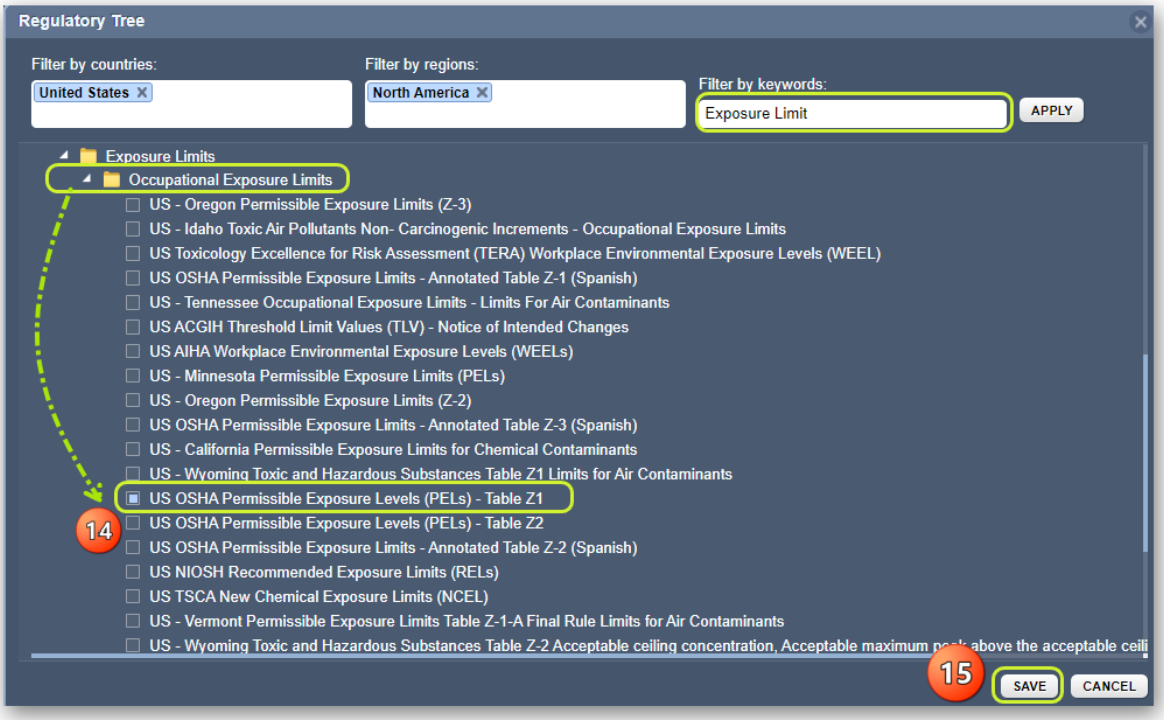


*The **Regulatory Lists** in relation to the keyword gets filtered out. Note that the filtered list is global.*

10. Assign the applicable filter by **Country** to further apply filter conditions, e.g., click on country field to choose desired country from the drop-down list, e.g., United Sates.
11. Assign the applicable filter by **Region** to further apply filter conditions; e.g., click on region field to choose region from the drop-down list, e.g., North America.
12. Select the **Regulatory Document** from the expanded folder tree, e.g., Exposure Limits.
13. Click the **Apply** button.



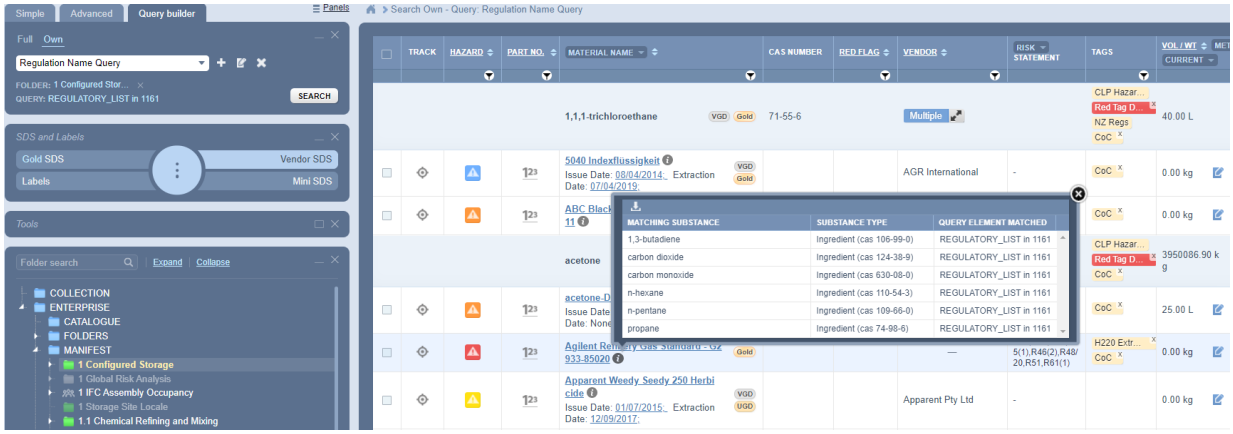
After applying the filter conditions, the system will filter the entire selected folder “Regulatory List” to found records as shown below.



14. Click the **Regulatory Name Checkbox** from the filtered list.
15. Click the **Save** button to complete the assigned filter for the query.
16. Click the **Save** button in query builder dialogue to create the Regulation Name Query based on the selected name of the regulatory exposure list. Note that for this worked example shows that the regulatory list selected is coded.

A confirmation message displays.

17. Click the Full or **Own** link to set the database path.
18. Click the SEARCH button to look up for materials that are applicable to the regulatory query. Own search is applied in this example.
19. Query search display the found matching materials that meet the criteria. **Hover mouse pointer** to any material name's information icon to display summary of matching substance and substance type (ingredient) via a pop-up window.

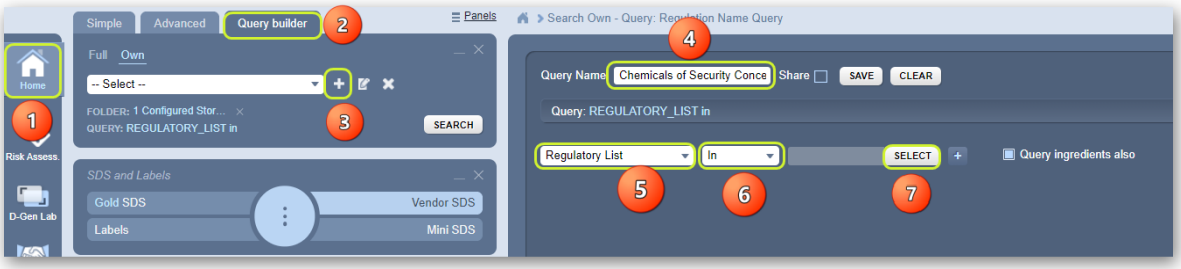


2.6 Create and Search by Chemicals of Security Concern

The steps below illustrate how to create a query to search for chemicals of security concern in Australia.

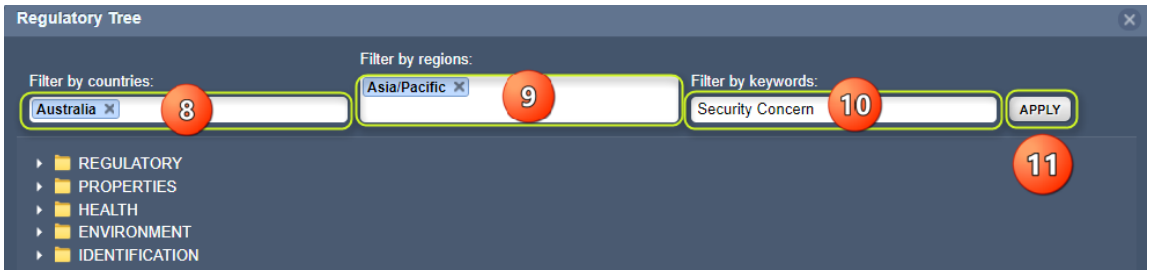
Steps: Creating a Regulation Name Query for Chemicals of Security Concern

1. Select the **Home** module.
2. Press the **Query Builder** button from the Search Panel.
3. Click the **Add** icon .
4. Type the **query name** in the Query Name text field, e.g., Chemicals of Security Concern (applicable in Australia).
5. Click the **drop-down arrow** to select the Search option from the drop-down list.
6. Choose the search option **Regulatory List**.



7. Click the **SELECT** button to filter by region, country and key word.
8. Assign the applicable filter by **Country** to further apply filter conditions; e.g., click on country field to choose country from drop down list, e.g., Australia.
9. Assign the applicable filter by **Region** to further apply filter conditions; e.g., click on region field to choose region from the drop-down list, e.g., Asia/Pacific.
10. Type a **Keyword**, e.g., Security Concern.

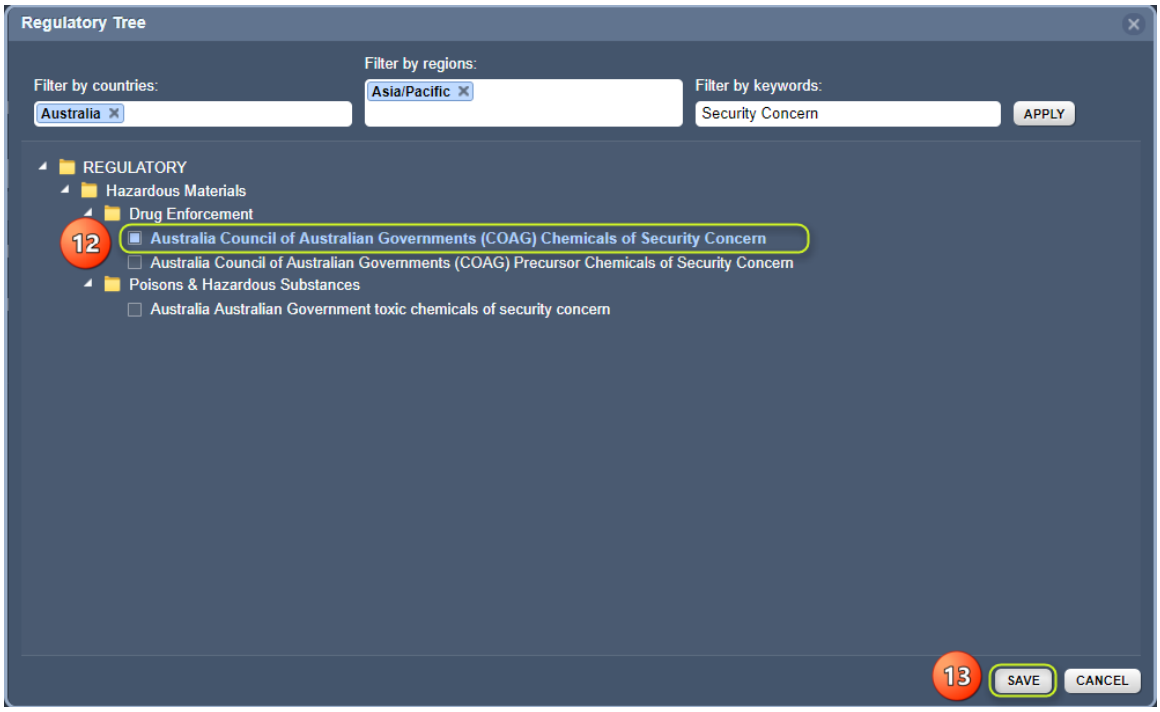
11. Click the **Apply** button to filter the Regulatory Database by using the specified keyword. After applying the filter conditions, the system will filter the entire selected folder regulatory list to records.



After applying the filter conditions, the system will filter the entire selected folder regulatory list to records.

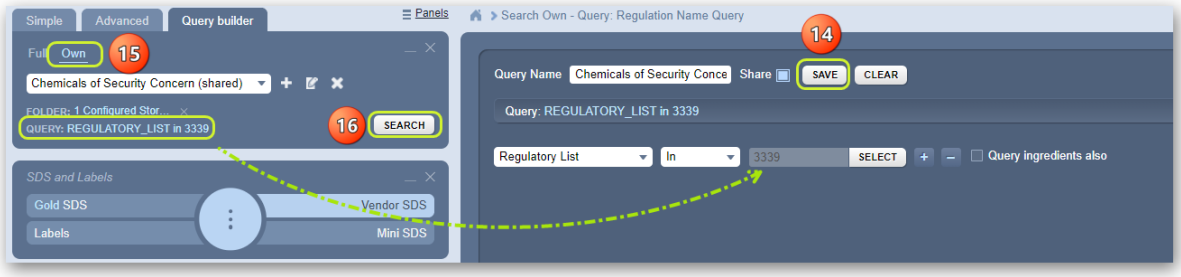
12. Select the **Regulatory Document Checkbox** from the expanded folder tree, e.g., Regulatory/Hazardous Materials/Drug Enforcement/Australia Council of Australian Governments (COAG) Chemicals of Security Concern.

13. Click the **Save** button to lock in the filter conditions.



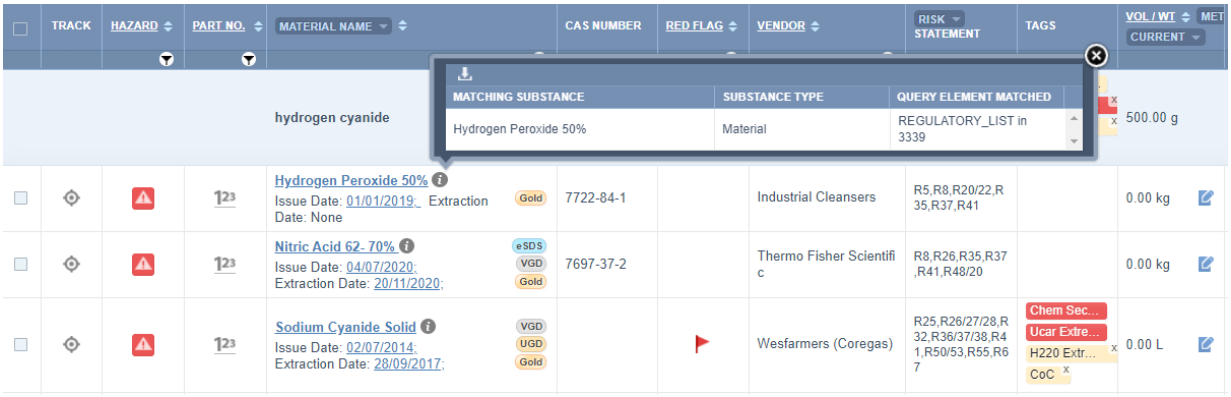
14. Click the **Save** button in query builder dialogue to create the Regulation Name Query based on the selected name of the regulatory exposure list.

Note that for this worked example to regulatory list selected is coded 3339. A confirmation message displays.



15. Ensure to click the Full or **Own** link to set the database path.
16. Click the SEARCH button to query the database from your own collection.

    The found records that meet the criteria will be displayed with matching substance(s). **Hover mouse pointer** to any material's information icon to display a pop-up window for matching results.



Chemicals of Security Concern, Australia

There are about 40, 00 chemicals that are approved for use in Australia and out of these, only 96 are identified as chemicals of security concern due to their potential to be used to make bombs or toxic weapons. There are 15 assessed chemicals that are of high risk and are covered by the National Code of Practice for Chemicals of Security Concern.

Some examples of Chemicals of Security Concern in Australia

Chemical of Security Concern	CAS Number
Aluminum phosphide	20859-73-8
Chlorine	7782-50-2
Hydrochloric acid	7647-01-0
Mercuric nitrate	10415-75-5
Dimethyl Sulfate	77-78-1

2.7 Create a Regulatory Query and Search for PFAS

PFAS substances (Per- and Polyfluoroalkyl Substances) are a group of manufactured chemicals that have been used in industry and consumer products which also include PFOA (Perfluorooctanoic Acid) and PFOS (Perfluorooctane Sulfonate) chemicals, PFBS, GenX and many other chemicals. PFOA and PFOS have been replaced in the US with other PFAS in recent years. PFAS can be found in water, soil, air, food and in materials found in homes or workplaces including:

- Drinking water
- Soil and water at or near waste waters
- Fire extinguishing foam
- Manufacturing or chemical production facilities that produce or use PFAS
- Food packaging
- Household products and dust
- Personal care products
- Biosolids

Exposure to PFAS

Research has shown that people can be exposed to PFAS by:

- Working in occupations such as firefighting, chemical manufacturing and processing.
- Drinking water contaminated with PFAS.
- Consuming foods that may contain PFAS, including fish.
- Swallowing contaminated solid or dust.
- Using products made with PFAS or packaged in materials that contain PFAS.
- Breathing air that contains PFAS.

Health Effects of PFAS

Peer reviewed scientific studies show that exposure to certain levels of PFAS may result in:

- Reproductive effects in pregnant women.
- Development effects or delays in children.
- Reduced ability of the body's immune system to fight infections.
- Interference with the body's natural hormones.
- Increased cholesterol levels, risk of obesity.

PFAS Related Regulations

In the US, the RCRA (Resource Conservation and Recovery Act) is the public law that provides the framework for hazardous and non-hazardous management of solid waste, which describes the waste management program managed by congress that gave EPA authority to

develop the RCRA program. Click on this link "EPA/RCRA" to found out more about RCRA tools and resources.

PFAS Chemical Lists

Multiple lists of PFAS chemicals have been developed by EPA and international community. These lists are available on the CompTox (Computational Toxicology) Chemicals Dashboard:

- PFAS Master List
- EPAPFASINV
- EPAPFAS75S1
- EPAPFAS75S2
- EPAPFASINSOL

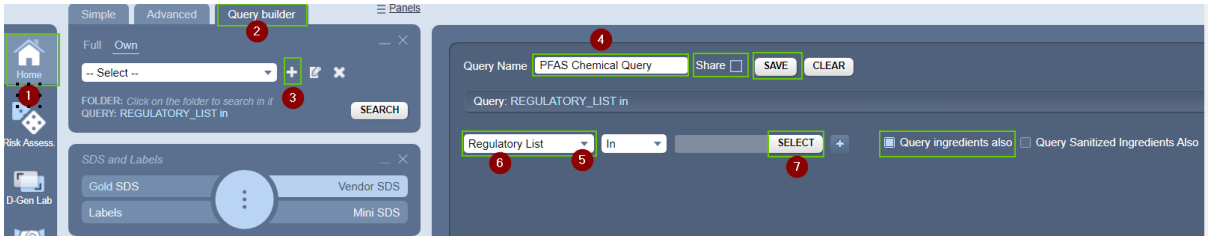
The following business case will help build a query using Query Builder based on the following criteria:

Query name	PFAS Chemical Query
Regulatory	Environment - PFAS
	Regulatory - PFAS
	Hazardous Materials - PFAS
Country	United States
Chemical Inventory	Folder/store in Chemwatch Manifest must at least contain a few PFAS to demo the search query
Tags	PFAS Tag must be added as automatic to easily identify any chemicals using the Tag column when viewing or search for any PFAS chemicals in the Own collection.
User's Query Builder attributes	The user must be granted privilege to create queries in Query Builder and set tags

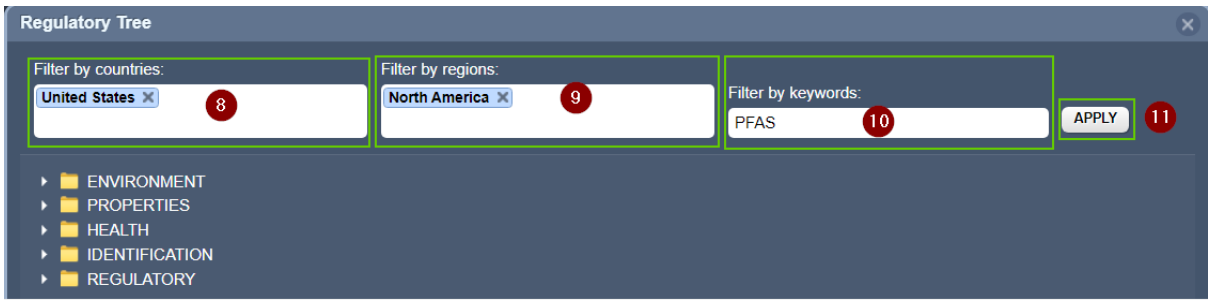
The steps below illustrate how to create a Regulation Query to search for PFAS chemicals from the Own collection.

Steps: Creating a Regulation Name Query for PFAS Chemicals

17. Select the **Home** module button.
18. Press the **Query Builder** button from the Search panel.
19. Click the **Add** icon.
20. Type the **query name** in the Query Name text field, e.g., PFAS Chemical Query.
21. Click the **drop-down arrow** to select the search parameter from the drop-down list.
22. Select the search option "**Regulatory List**".



23. Click the SELECT button to filter by region, country (United States), and key word (e.g., PFAS)
24. Assign the applicable filter by **Country** to further apply filter conditions, e.g., click on country field to choose country from drop down list, e.g., United States.
25. Assign the applicable filter by **Region** to further apply filter conditions; e.g., click on region field to choose region from the drop-down list, e.g., North America.
26. Type a **Keyword**, e.g., PFAS.
27. Click the **Apply** button to filter the Regulatory Database by using the specified keyword. After applying the filter conditions, the system will filter the entire selected folder regulatory list to records.

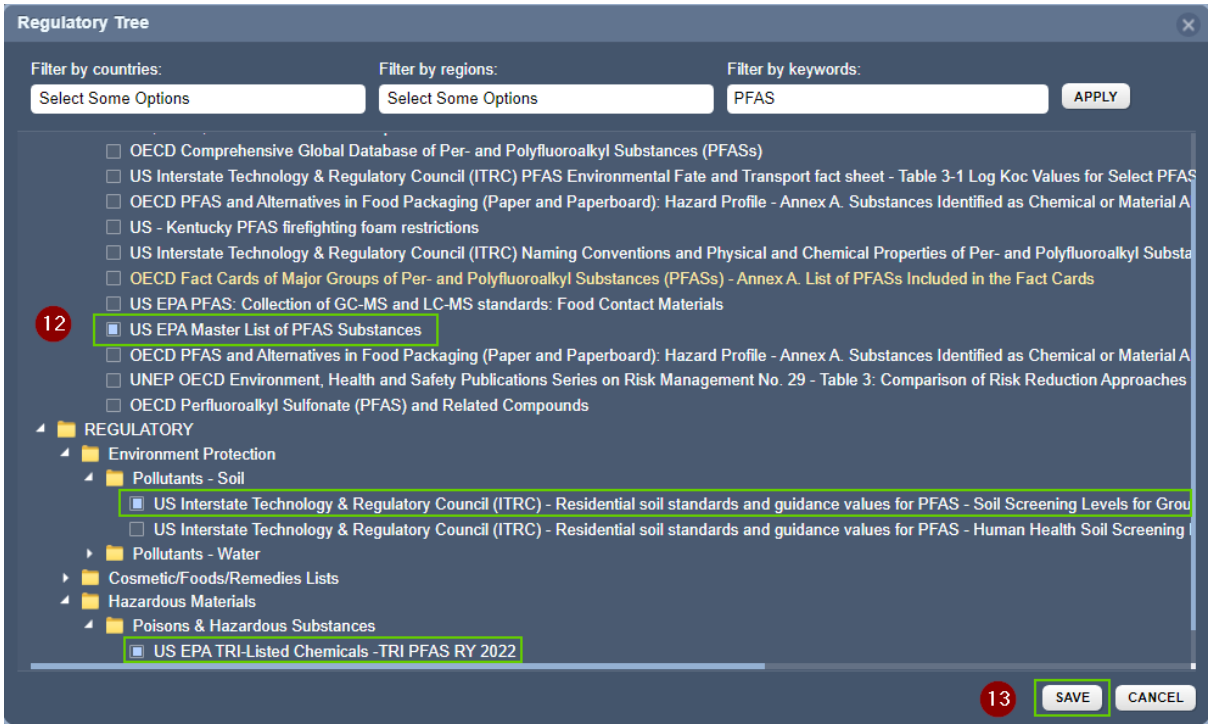


After applying the filter conditions, the system will filter based on the set country, region and keyword.

28. Select the relevant **Environment, Regulatory and Hazardous Materials document Checkbox** from the expanded folder tree and you may select the following items.

Directory Folder	Regulatory List
Environment	US EPA Master List of PFAS Substances
Regulatory/Environment Protection/Pollutants-Soil	US Interstate Technology & Regulatory Council (ITRC)…
Regulatory/Hazardous Materials/Poisons & Hazardous Substances	US EPA TRI-Listed Chemicals – TRI PFAS RY 2022

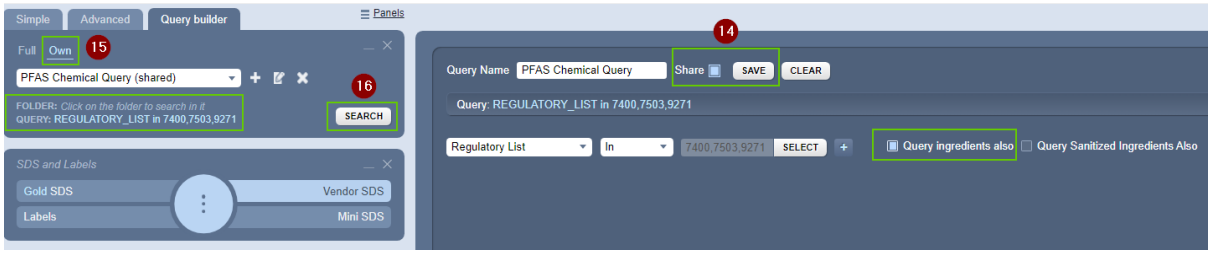
29. Click the **Save** button to lock in the filter conditions.

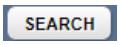


30. Check the "Share" checkbox and click the **Save** button in query builder dialogue to create the Regulation Name Query based on the selected name of the regulatory exposure list.

Note that for this worked example to regulatory list selected is coded 7400, 7503, 9271. A confirmation message display. 

. In this example, Query Ingredients also checkbox has been marked.

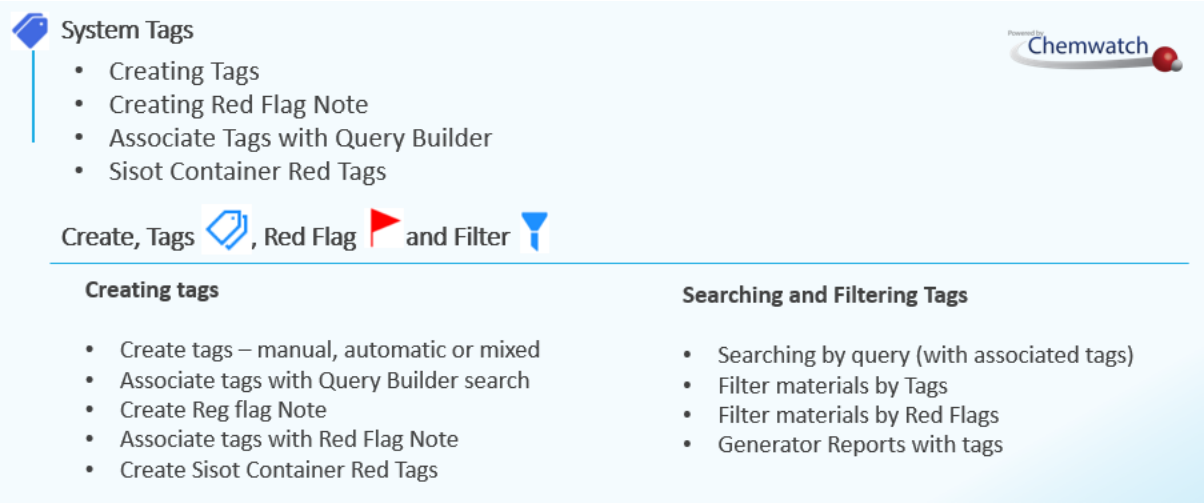


31. Click the Full or **Own** link to set the database path.
32. Click the 

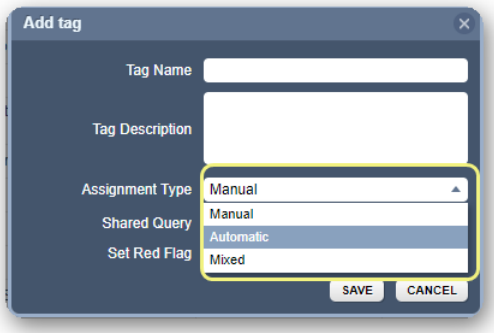
button to query the database from your own collection.

The found records that meet the criteria will be displayed with matching substance(s). **Hover mouse pointer** to any material's information icon to display a pop-up window for matching results.

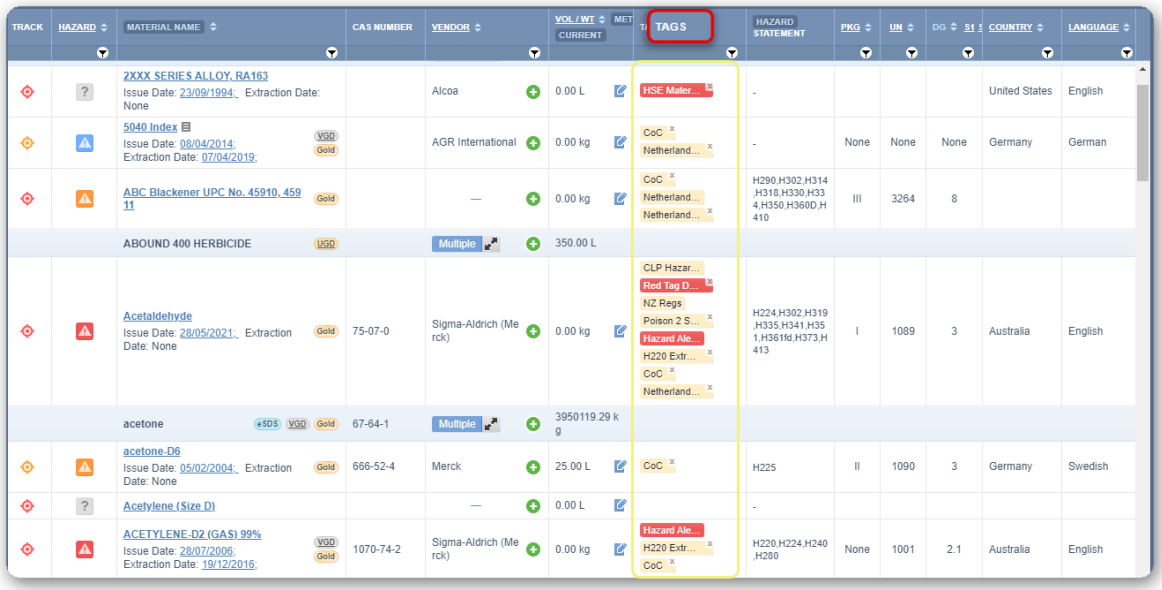
2.8 About System Tags



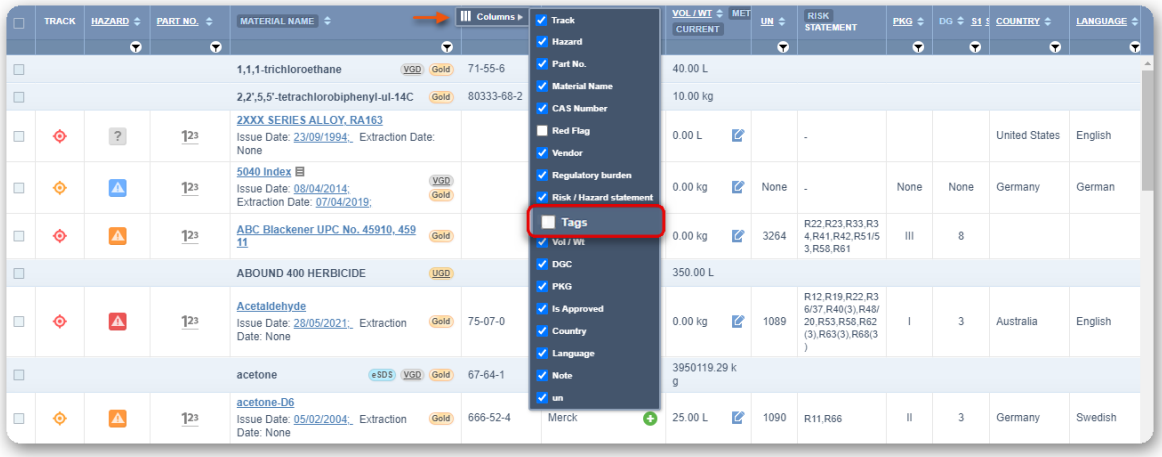
Tags are a user defined parameter and an optional feature. If tags do not show in the list of filter options, contact your Chemwatch System Administrator for more details. The system allows the administrator to create red flags, tags for materials. A tag is a piece of information that can be used to share information to other users as an alert or a way of communication for certain chemicals used within the workplace. The tags can be assigned to materials in various modules: Home, Manifest, Sisot and Risk Assessment modules. Tags can be set as Manual, Mixed or Automatic tags.



When tags are set up, the materials identifiable with tags will be shown in the materials table as shown in the example below.



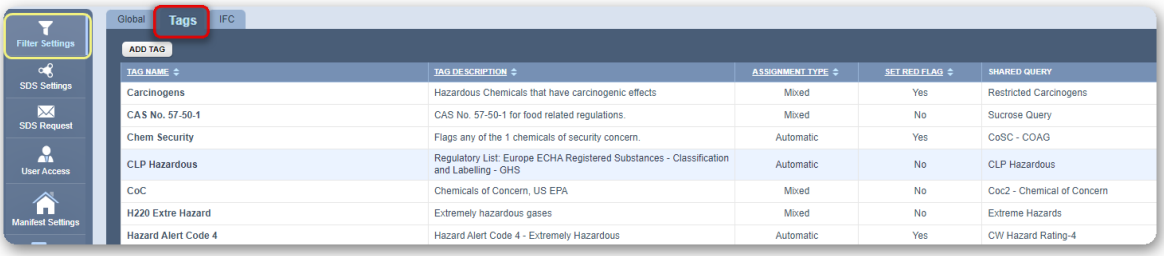
If the Tags column is not displayed in the materials column, right click on material name header or any header within the grid to select the Tags checkbox as shown below to enable the tags column.



2.8.1 Tags Settings

Tags can be created and associated with other functionalities in Settings > Filter Settings > Tags tab.

The user access settings module is strictly accessible by the domain administrator for security purposes. The administrator can set other users and grant them with the permission to set up tags (Manual, Automatic or Mixed) and the ability to associate a tag with a Query and/or a Red Flag.



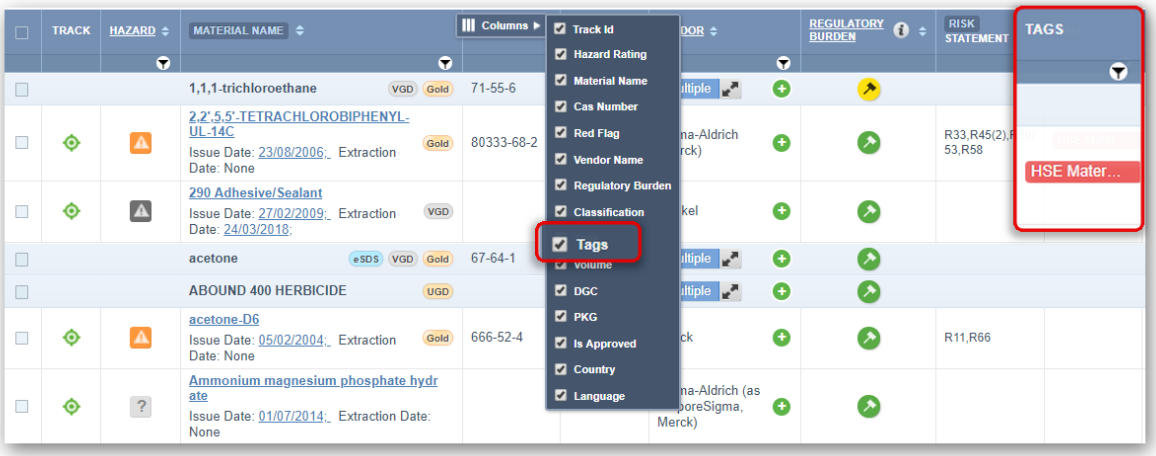
Tags are also made available to users through privileges. The administrator must assign the following tags related privileges to users/groups to enable those users to either;

- View,
- Manage or
- Run Auto-Tagging.

Summary of Tags Privileges

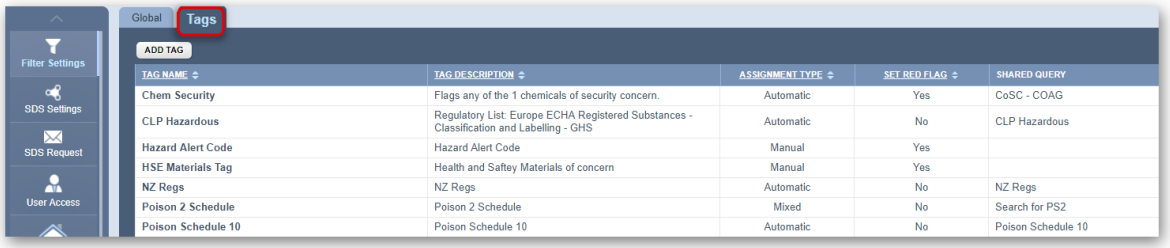
View Tags ☐

This privilege enables users to view Tags from the materials/cat name grid.



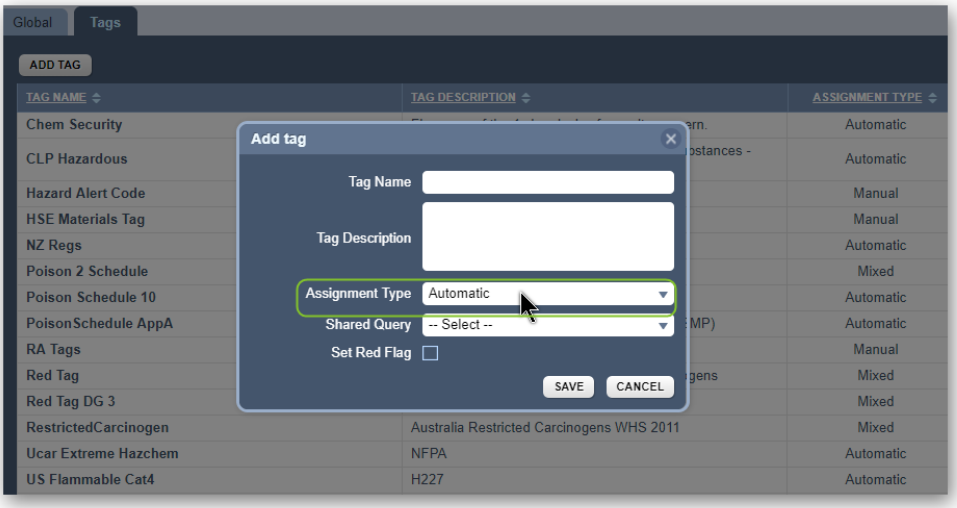
Manage Tags ☐

This privilege enables users to create, edit and assign automatic, mixed, or manual tags that can be used to relay desired information about material inventory records within the grid. Users that are granted this privilege will have access to the tags tab in Filter settings mode as shown below.



RunAutoTagging ☐

This privilege enables users to run automatic tags.

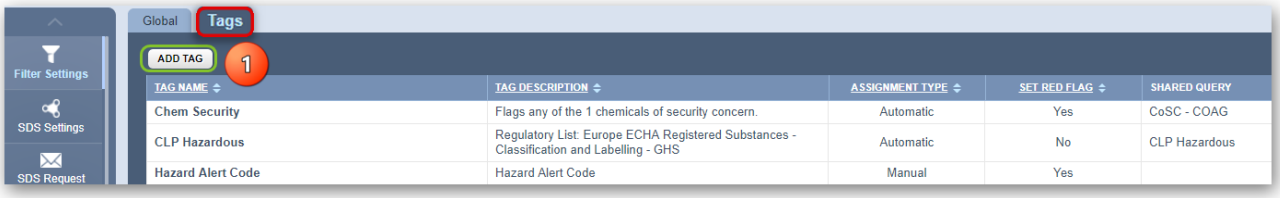


2.8.2 Creating Tags

Go to the Settings ⚙ link > click on Filter Settings > press the Tags tab and follow the steps below to create tags (Mixed).

Steps

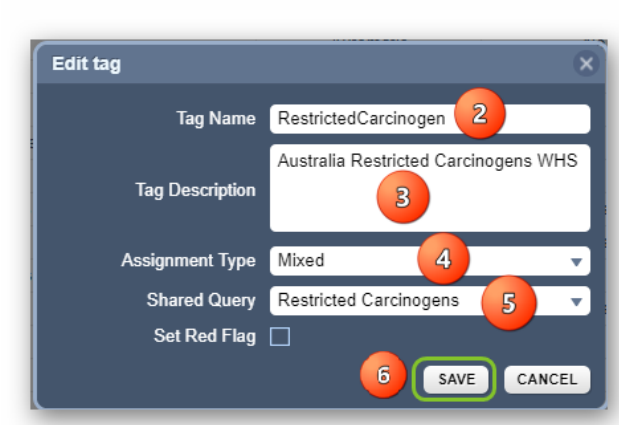
1. Click the **Add Tag button.**

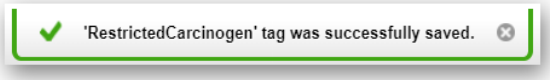


2. Type the **name of the tag** in the Tag Name text field.
3. **Describe the tag** by typing in the Tag Name text field.
4. Click on the drop-down arrow to choose the **Assignment Type** from the listed options. In this example, the Mixed option is selected.
5. Choose a Shared Query from the drop-down arrow that will be used with Query Builder Search. Note that the query must be created first (recommended). You may also use the

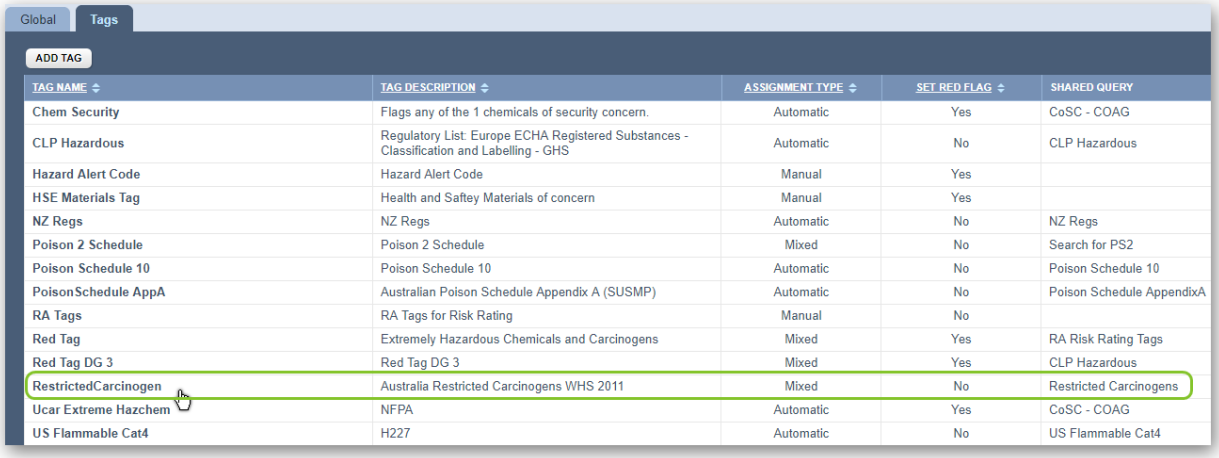
checkbox for the Red Flag to associate your tag with the search results or when materials are displayed.

6. Click the **Save** button. A confirmation message gets displayed on top of the screen.



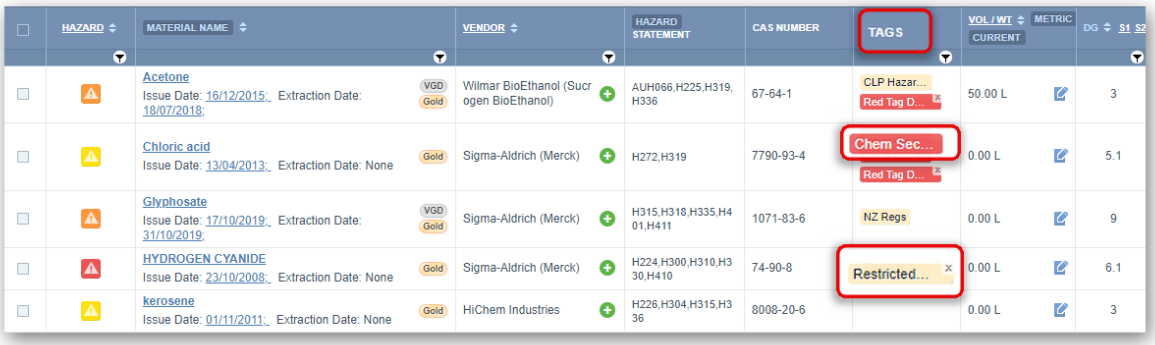


The created tag will be displayed in the Tag grid.



TAG NAME	TAG DESCRIPTION	ASSIGNMENT TYPE	SET RED FLAG	SHARED QUERY
Chem Security	Flags any of the 1 chemicals of security concern.	Automatic	Yes	CoSC - COAG
CLP Hazardous	Regulatory List: Europe ECHA Registered Substances - Classification and Labelling - GHS	Automatic	No	CLP Hazardous
Hazard Alert Code	Hazard Alert Code	Manual	Yes	
HSE Materials Tag	Health and Saftey Materials of concern	Manual	Yes	
NZ Regs	NZ Regs	Automatic	No	NZ Regs
Poison 2 Schedule	Poison 2 Schedule	Mixed	No	Search for PS2
Poison Schedule 10	Poison Schedule 10	Automatic	No	Poison Schedule 10
PoisonSchedule AppA	Australian Poison Schedule Appendix A (SUSMP)	Automatic	No	Poison Schedule AppendixA
RA Tags	RA Tags for Risk Rating	Manual	No	
Red Tag	Extremely Hazardous Chemicals and Carcinogens	Mixed	Yes	RA Risk Rating Tags
Red Tag DG 3	Red Tag DG 3	Mixed	Yes	CLP Hazardous
RestrictedCarcinogen	Australia Restricted Carcinogens WHS 2011	Mixed	No	Restricted Carcinogens
Ucar Extreme Hazchem	NFPA	Automatic	Yes	CoSC - COAG
US Flammable Cat4	H227	Automatic	No	US Flammable Cat4

7. Go to the respective folder where the material(s) exist to view the list and identify the materials that have been automatically tagged, e.g., in this case, the tag name ‘Restricted Carcinogen’ or ‘Chemical Security of Concern’.



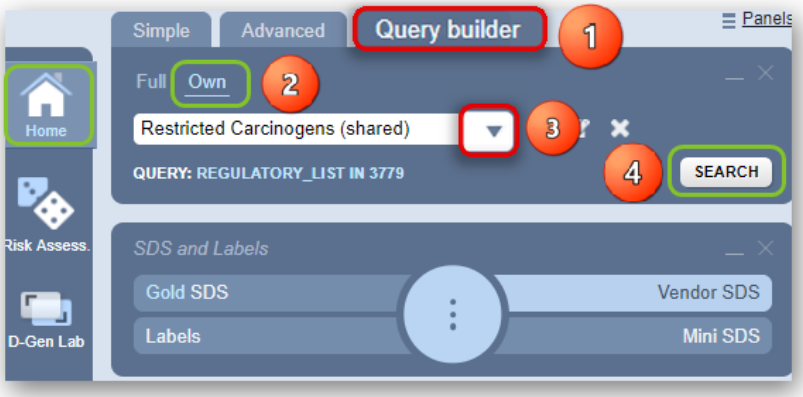
When the query that is associated with the tag is run in Query Builder search mode; this tag will enable the system to identify all materials that are classified as restricted carcinogens in accordance with the respective Regulatory List. Refer to the worked example below.

2.8.3 Searching by Query Name to Identify Tags

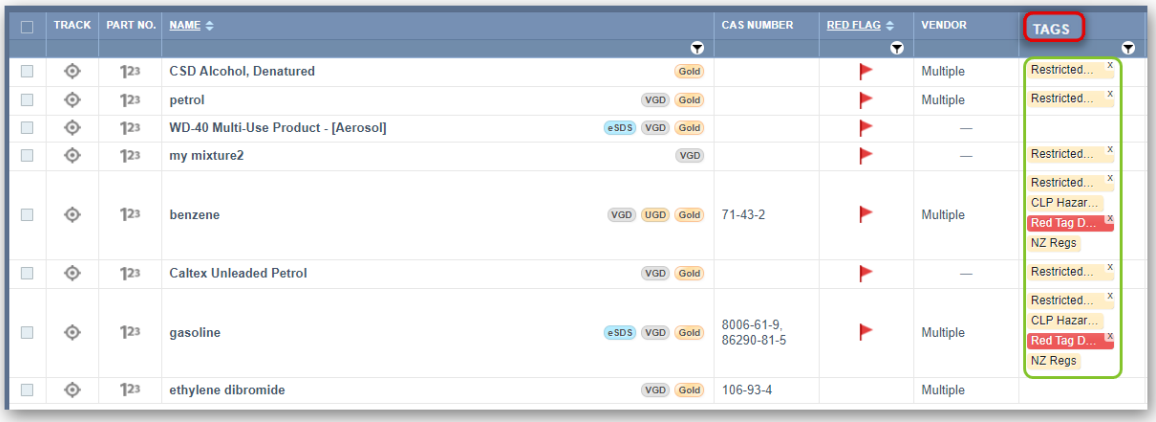
Go to the Home button > click on Query Builder tab on the search panel > follow the steps below to search for the query associated with the created tag.

Steps

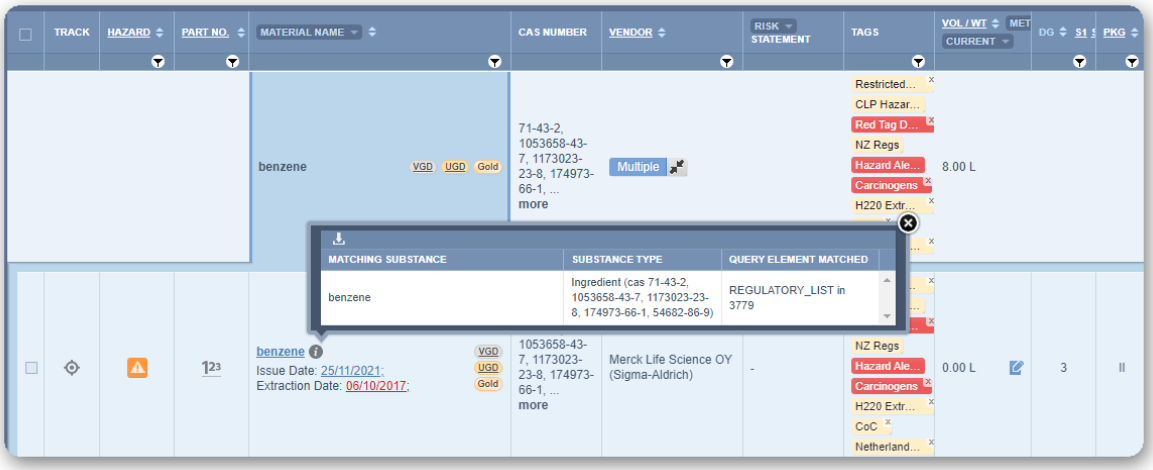
1. Click the **Own button** on the search panel.
2. Press the **search drop-down arrow** to select the Query Name, e.g., Restricted Carcinogens (shared). Note that the query was created with Regulatory List In 3779 (for Restricted and its associated Regulatory List code with the tag created above.
3. Click the **Search** button.



4. The search results' materials grid will show the Tags column with the respective tag name for found records within your own materials inventory as shown below.

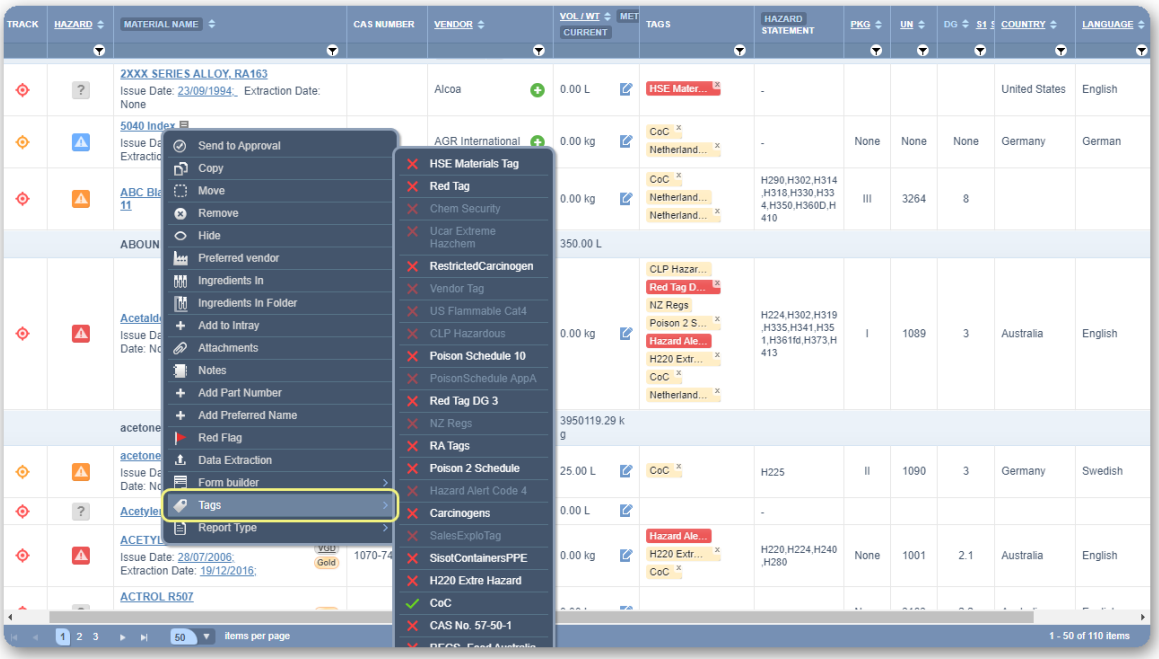


Moving the mouse pointer on the material name will display summary window with information matching the substance name, the substance type and the query element matched.



2.8.4 Assigning a Manual Tag to a Material

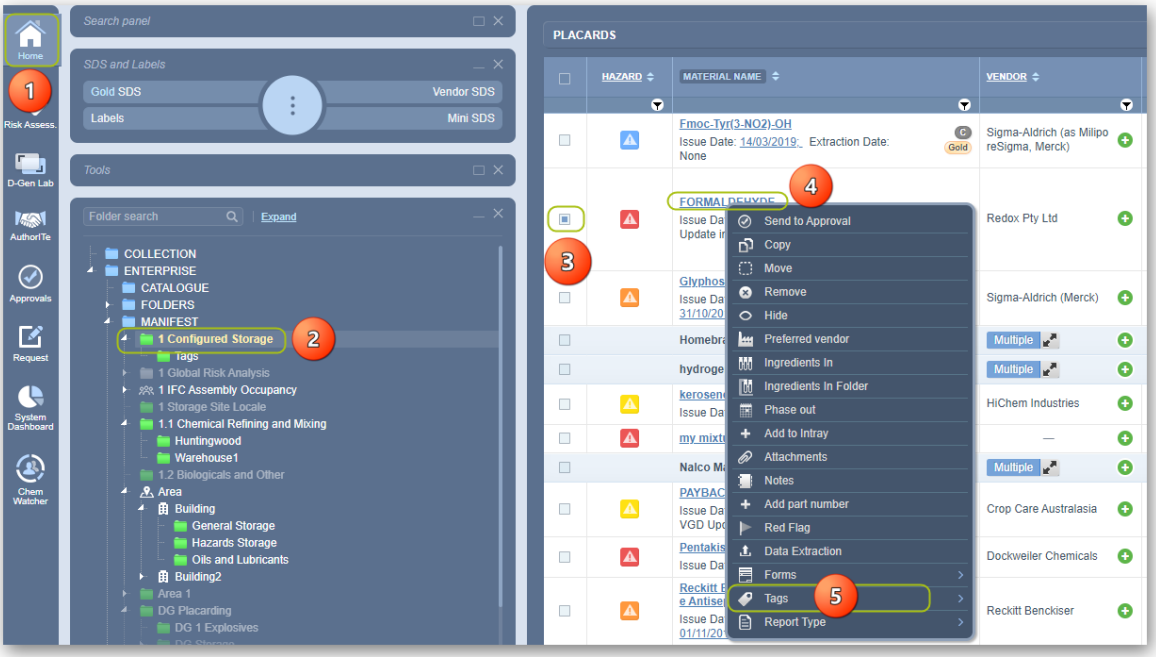
Take note that a manual tag to be assigned to a material in a folder or in your inventory must have been created before tagging any material in any folder. Refer to topic 'Creating Tags' above. In this example below, the tag has already been created as a Mixed Tag. If numerous tags for various purposes have been created and assigned automatically or manually to material(s), the list of tags from the mouse right click menu will show an for those tags not assigned and a green tick for those tags that are already assigned and associated with the material automatically.



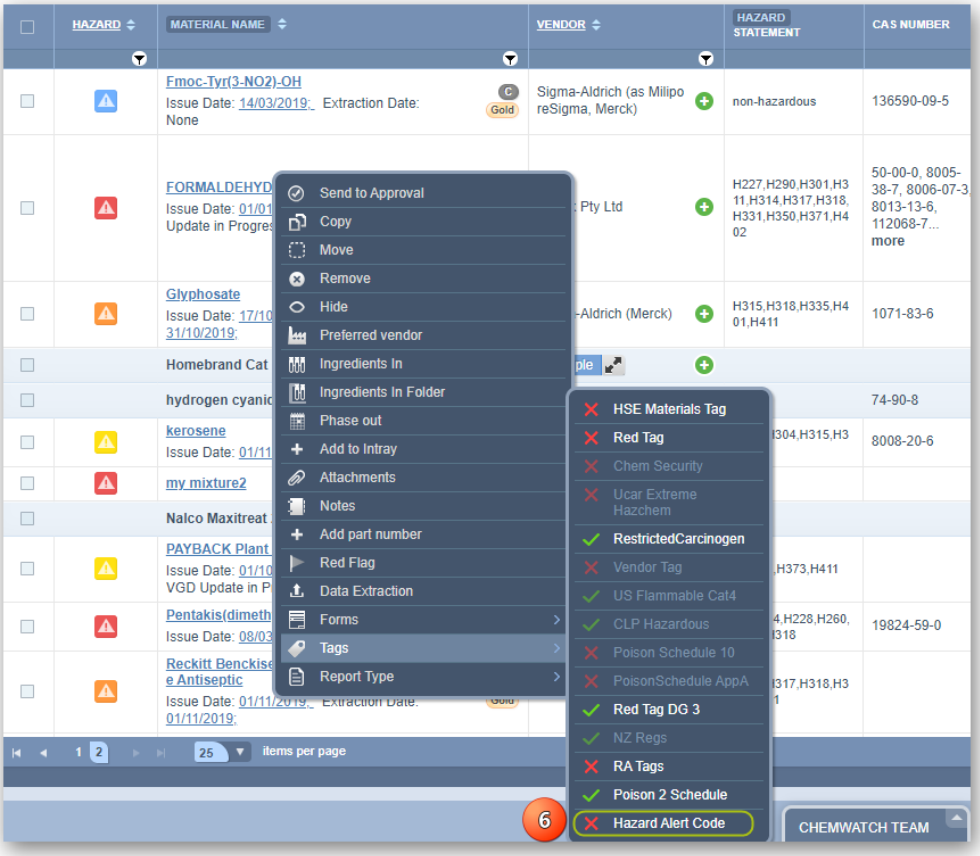
The following steps show how to set a tag for specific material to display in the materials grid.

Steps

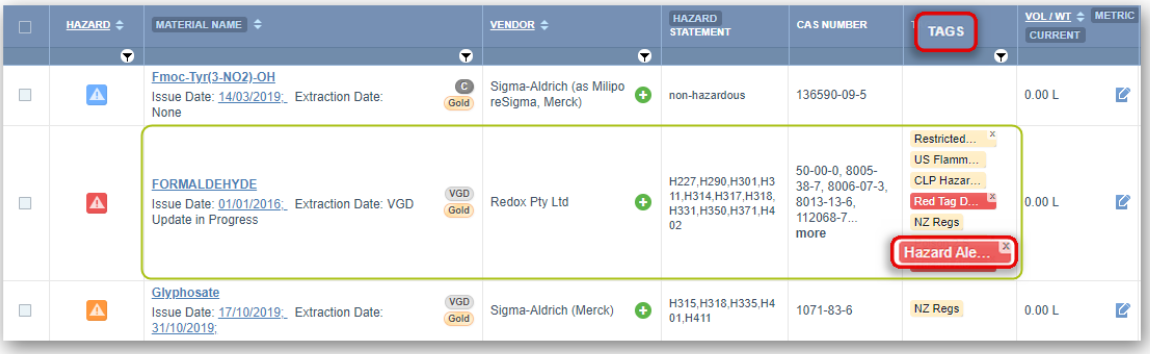
1. Pres the Home module button .
2. Click on a **folder within the tree structure.**
3. Select the **checkbox** alongside a material name.
4. **Mouse right click** on selected material.
5. Select the **Tags** option from the menu.



6. Press the **tag name** that is not currently assigned to the selected material.



7. The **tag** is now assigned to the selected material.

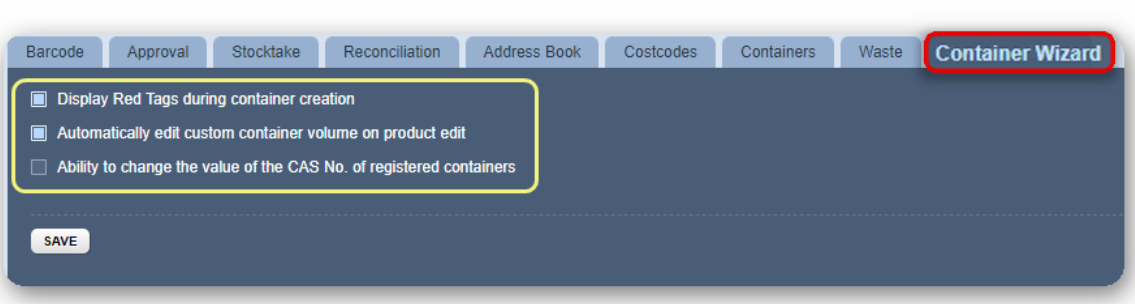


2.8.5 Sisot Red Tags

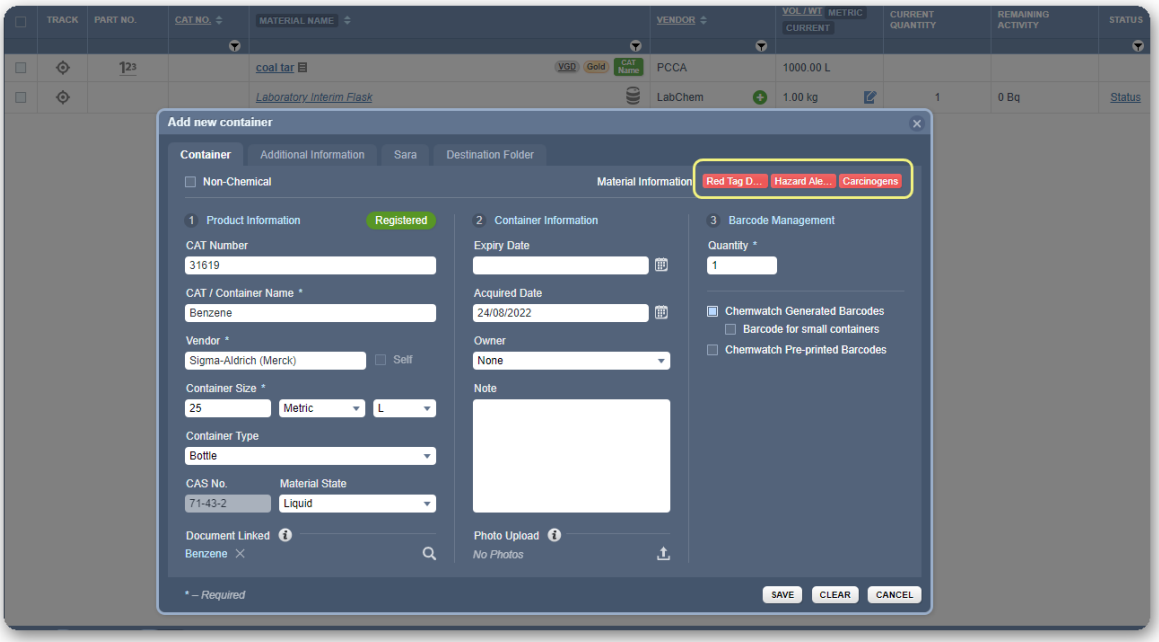
Sisot module can show tags in the Container Edit Wizard to show material Red Tags. Tags can be used for a variety of purposes, but generally to share information or flag out important details associated with the material container as a communication tool about the chemical containers on site. However, for the Red Tags to be available in the container wizard, the

administrator has the responsibility to enable Sisot containers to show Red Tags during container creation in the container wizard if required.

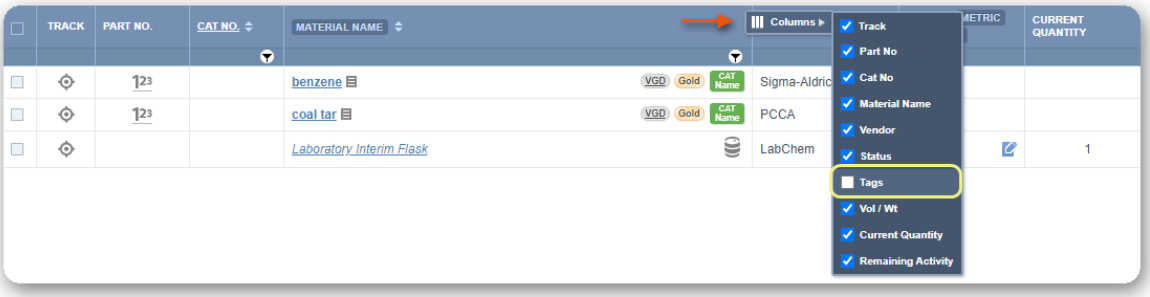
The Red Tag display can be set by a domain specific setting in Settings-> Sisot Settings-> Container Wizard.



Once you choose an existing Cat Number from the drop-down menu or the Cat Name from the autocomplete, the material **Red Tags** (if any was applied) will be shown on the **Container Edit Wizard** in the **Material Information** section on the top right corner of the container wizard window.



Once a container (Cat name) has been added to a folder location, check if the tags column is hidden from grid view in Sisot mode. Right click on column header and select “Tag” checkbox to display column.

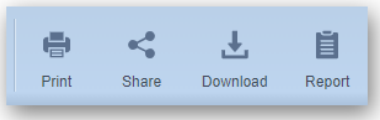


3.0 Print, Download and Share Reports

The primary objective of this chapter is to demonstrate how to use the Print, Download and Share functions to generate documents or reports.

→ Print list, SDS or product update
→ Download list, material list, external links, SDS and product update
→ Share list, material list, SDS, offline archive, offline archive store and product update

WHAT YOU'LL LEARN



The **Print, Share** and **Download** (PSD) functions contain menus to choose the specific report type/documents to generate. Users can PSD the following documents and report types:

Print List, SDS or Product Update

Print List, SDS or Product Update	
List, Materials List	**Print a list of materials** from the grid (either selected, current page or all)
SDS - SDS/Gold, SDS/Mini, SDS/Vendor, Labels	**Print a specific type of document (s)** for a single material or multiple materials (either for selected or all materials) and choose the specific document (Mini SDS, Gold SDS, Vendor SDS or Labels).
Product Update	**Print product document(s)** for a single material or multiple materials by applying the specific Product Update from the options; Products Added, Products Updated or Issue Date).

Download List, External Links, Offline Archive, SDS or Product Update

Download (Save) List, External Links, Offline Archive, SDS or Product Update	
List, Materials List	**Download a list of materials** from the grid (either selected, current page or all)
SDS - SDS/Gold, SDS/Mini, SDS/Vendor, Labels	**Download a specific type of document(s)** for a single material or multiple materials (either for selected or all materials) and choose the specific document (Mini SDS, Gold SDS, Vendor SDS or Labels).

Download (Save) List, External Links, Offline Archive, SDS or Product Update	
External Link HTML - Gold, Mini, Vendor SDS, Labels	**Download specific type of document(s)** through an "**External Link HTML**" based on selected or all materials from the grid and choose the specific type of document (Mini SDS, Gold SDS, Vendor SDS or Labels). You may also include preferred names for all materials.
Offline Archive	**Download specific types of document(s)** for a single material or multiple materials (either for selected or all materials) and choose the specific type(s) of SDS (Mini SDS, Gold SDS, Vendor SDS or Labels) through the **Offline Archive** function. The selected material documents will be archived as a zip file that will contain separated documents in the **zip file's "docs" folder.**
Offline Archive Store	**Download document(s)** for a single material or multiple materials (either for selected or all materials) through the **Offline Archive Store** function. The selected material SDS documents will be archived as a zip file that will contain separated documents in the **zip file's "docs" folder** based on folder locations of those documents.
Product Update	**Download product document(s)** for a single material or multiple materials by applying the specific Product Update from the options; Products Added, Products Updated or Issue Date).

Share List, External Links, Offline Archive, SDS or Product Update

Share (Email) List, External Links, Offline Archive, SDS or Product Update	
List, Materials List	**Share a list of materials** from the grid (either selected, current page or all) by using the email function.
SDS - SDS/Gold, SDS/Mini, SDS/Vendor, Labels	**Email a specific type of document(s)** for a single material or multiple materials (either for selected or all materials) and choose the specific document (Mini SDS, Gold SDS, Vendor SDS or Labels).
External Link HTML - Gold, Mini, Vendor SDS, Labels	**Email specific type of document(s)** through an "**External Link HTML**" based on selected or all materials from the grid and choose the specific type of document (Mini SDS, Gold SDS, Vendor SDS or Labels). You may also include preferred names for all materials.
Offline Archive	**Email specific types of document(s)** for a single material or multiple materials (either for selected or all materials) and choose the

	specific type(s) of SDS (Mini SDS, Gold SDS, Vendor SDS or Labels) through the **Offline Archive** function. The selected material documents will be archived as a zip file that will contain separated documents in the **zip file's "docs" folder.**
Offline Archive Store	**Email document(s)** for a single material or multiple materials (either for selected or all materials) through the **Offline Archive Store** function. The selected material SDS documents will be archived as a zip file that will contain separated documents in the **zip file's "docs" folder** based on folder locations of those documents.
Product Update	**Email product document(s)** for a single material or multiple materials by applying the specific Product Update from the options; Products Added, Products Updated or Issue Date).

The document types: Labels, Mini SDS, Gold SDS, Vendor SDS and Material List can be generated using pdf format. The Material List can also be generated using html format.

Note that offline archive generates reports as a zip file where the documents are separated in a docs' folder. To view the documents generated in the zip file, open the zip file and click on the "docs" folder to open each separate document.

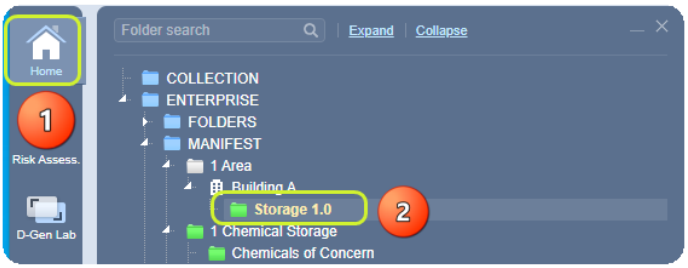
The following sub-topics cover printing a list of materials, batch printing vendor SDS, downloading (saving) a batch of Gold or Mini SDS, sharing (emailing) a batch of vendor SDS, generating an offline archive report and saving external html links report using the PSD menu options.

3.1 Batch Print Vendor SDS

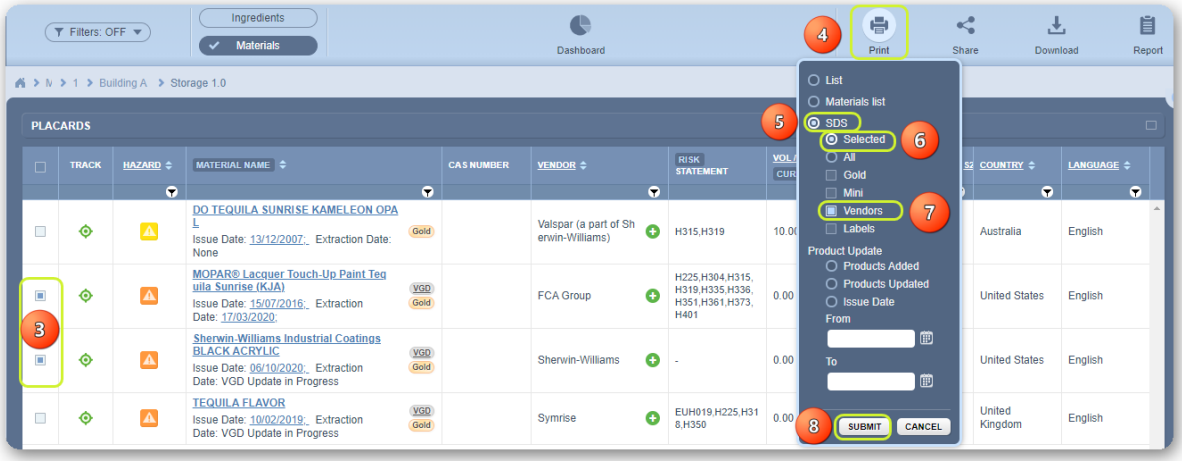
This exercise demonstrates the steps on "**how to print multiple Vendor SDS**" into a single batch file in pdf format. This helps to collate all Vendor SDS for selected materials to keep an archive file for reference as a paper trail.

Steps: Batch print Vendor SDS into a single PDF file

1. Select the **Home** module.
2. Select **folder** name that contains materials.

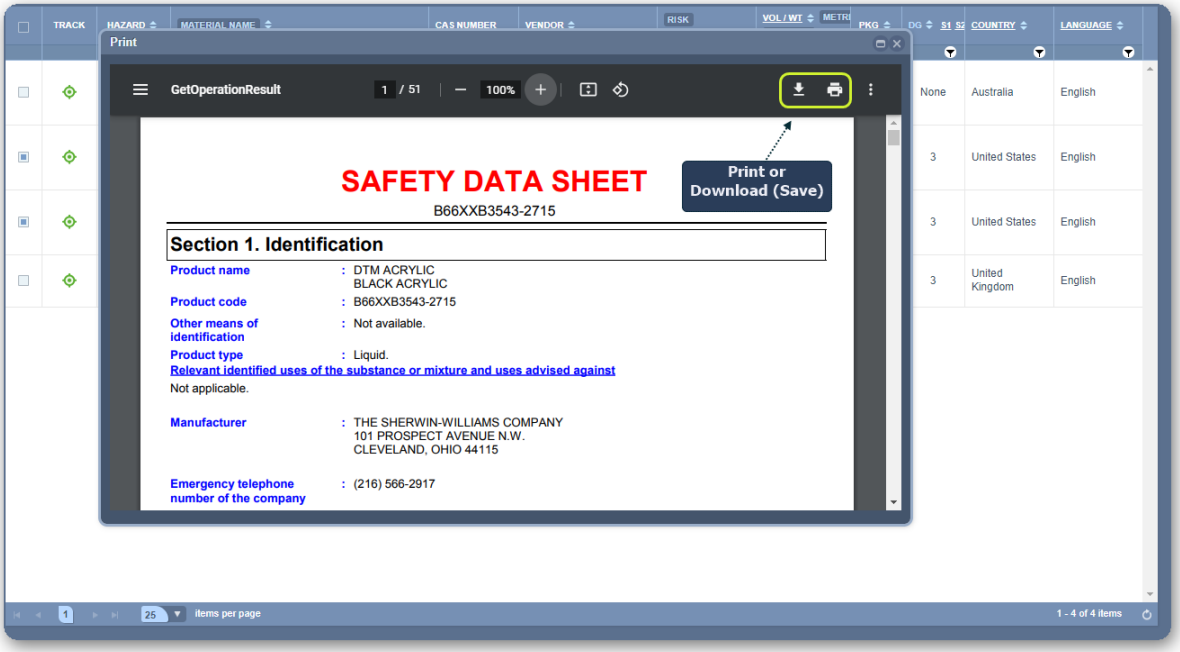


3. Select **checkboxes** ☐ for each row in the materials list or click on the checkbox header to mark all materials.
4. Click on **Print** button to open print menu options.
5. Select **SDS** radio button from the print menu.
6. Click on **Selected** radio button or **All** for all materials in the list.
7. Select **Vendor** checkbox under the SDS options.
8. Press the **Submit** button.



"All" selected material(s) Vendor SDS will be collated into a single pdf file. Take note of the number of pages shown in the middle top of the acrobat reader area.

9. Click the **Submit** button to generate the file.
10. The system's Print window displays processed reports. Select the **Print** icon from the acrobat reader program to print all the generated vendor SDS.

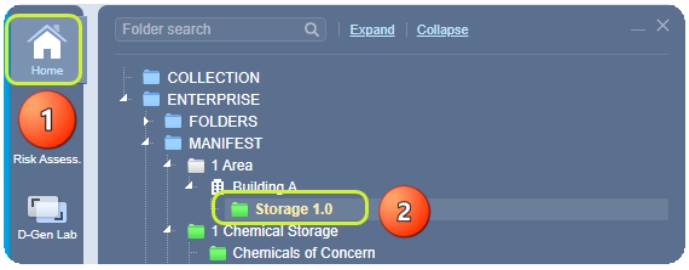


3.2 Save a Batch of Vendor SDS

This exercise demonstrates the steps on "**how to save multiple Vendor SDS**" as a single batch file in pdf format. This helps to collate all Vendor SDS for selected materials to keep an archive file for reference.

Steps: Save a batch of Vendor SDS into PDF file

1. Select the **Home** module.
2. Select **Folder** name.

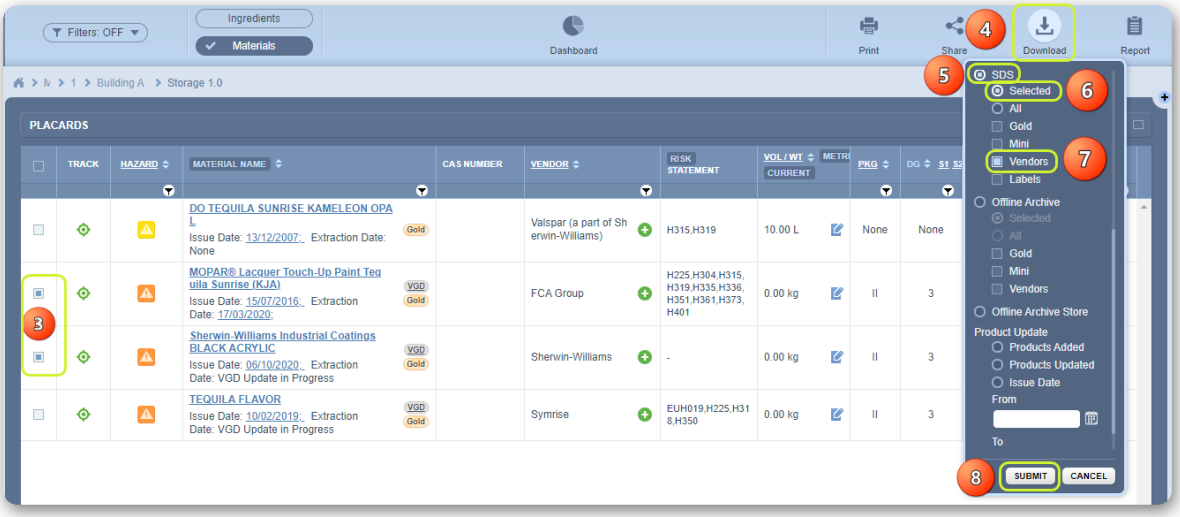


3. Select **Checkboxes** for each row in the materials list or click on the checkbox header to mark all materials.
4. Click on **Download** button to open the save menu options.

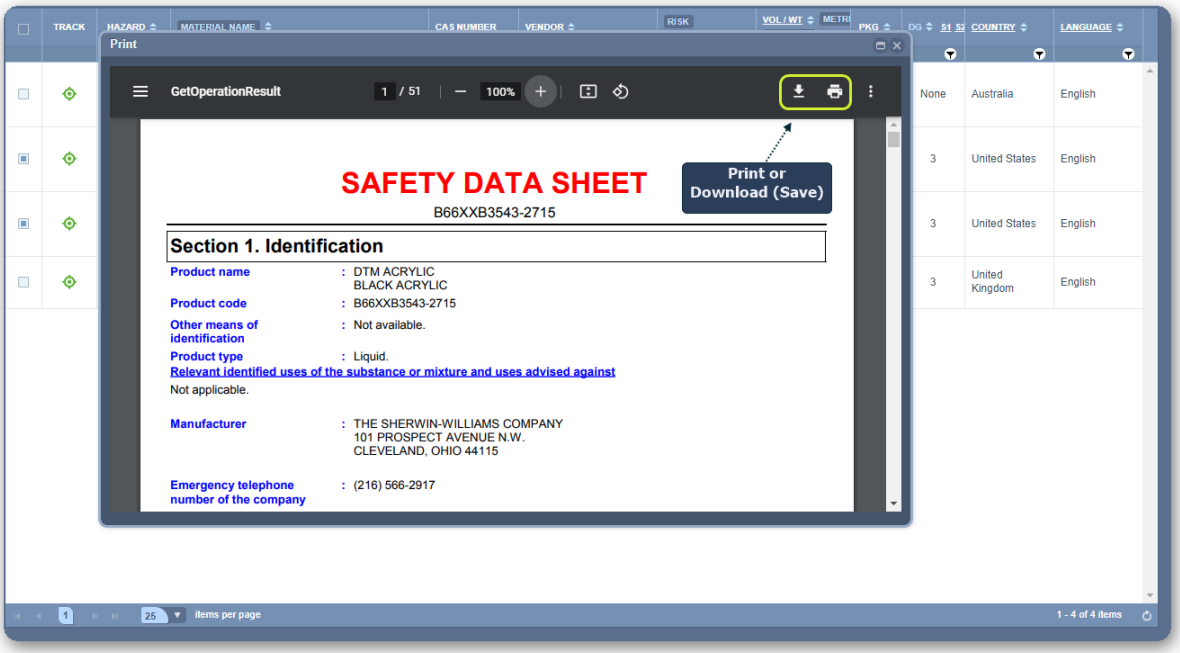
5. Select **SDS** radio button from the print menu.
6. Click on **Selected** radio button or **All** for all materials in the list.
7. Select **Vendors** checkbox.

If “All” option is selected from the print menu, this option will be generated reports for all materials in the list based on the current set pagination (or default); 25, 50, 100, 500 materials per page.

8. Click the **Submit** button to generate the file.



9. Save panel displays processed reports. Select the **Download** icon from the pdf reader to save all the generated documents.

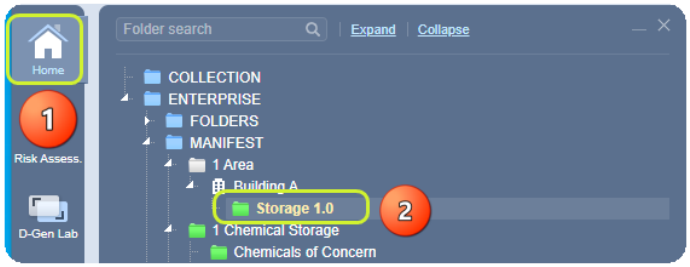


3.3 Email a Batch of Vendor SDS

This exercise demonstrates the steps on "**how to email multiple Vendor SDS**" as a single batch file in pdf format.

Steps: Email a batch of Vendor SDS as a PDF file

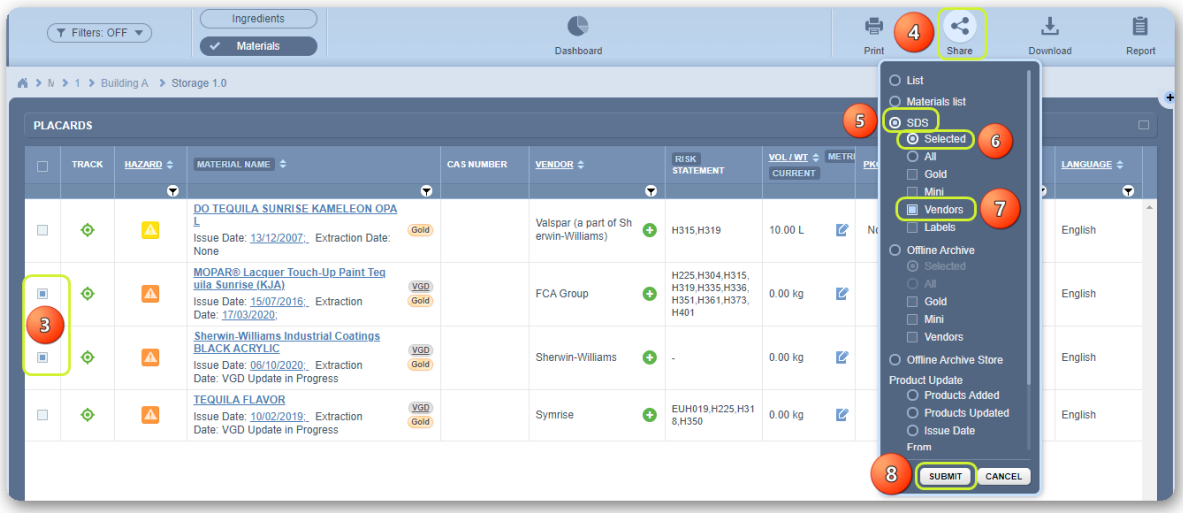
1. Select the **Home** module button.
2. Select **folder** name.



3. Select **checkboxes** for each row in the materials list or click on the checkbox header to mark all materials.
4. Click on **Share** button to open email menu options.
5. Select **SDS** radio button from the Share menu.
6. Select **Vendors** checkbox.
7. Click on **Selected** radio button or **All** for all materials in the list.

> If "All" option is selected from the print menu, this option will be generated reports for all materials in the list based on the current set pagination (or default); 10, 25, 50, 100, 500 materials per page. The default pagination is always set to 25.

8. Click the **Submit** button to open the email window.



9. **The email window** displays emailing fields.

a. Type **email address** to send the report file **To**

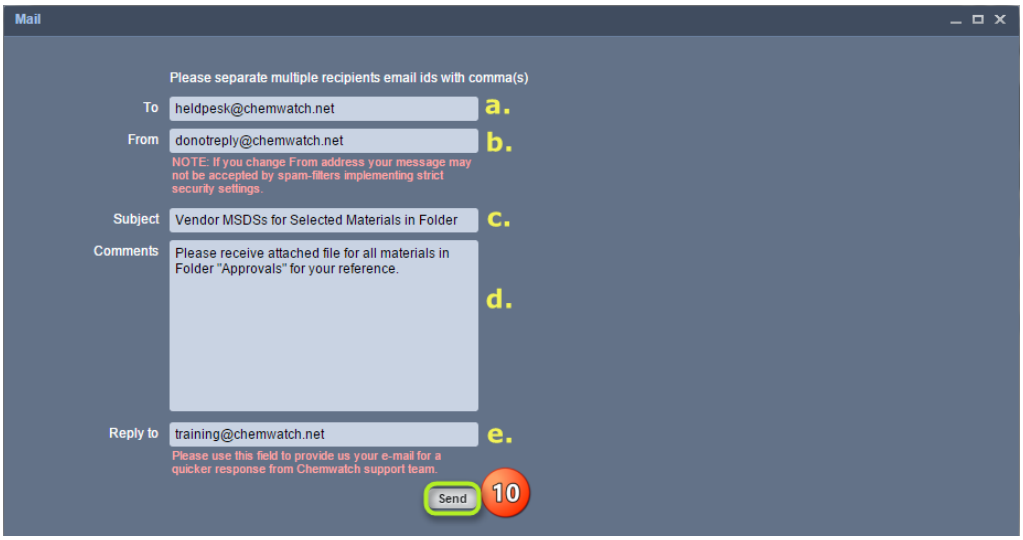
b. **Do not change** the default **Form** field. Note that if you change the "from" default 'do not reply' address may not be accepted by spam filters due to security settings

c. Type the **Subject** for the email

d. Type **Comments** in the Comments text field

e. Type "**your email address**" in the Reply to" field. Note that this field will provide us with your email address for a quicker response from Chemwatch support.

10. Click the **Send** button to send the batch file.



The recipient will receive the SDS batch file as an attachment in the email.

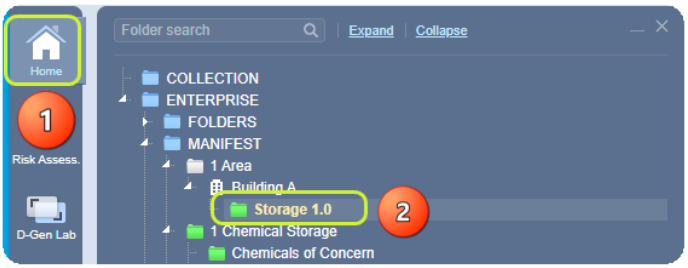
3.4 Batch Print Vendor SDS by Product Update

This exercise demonstrates the steps on "**how to print multiple Vendor SDS**" into a single batch file in pdf format by **Products Updated** or by a specific **Date Range**.

3.4.1 Batch Print Vendor SDS by Products Updated

Steps: Batch print Vendor SDS by Products Updated

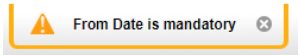
1. Select the **Home** module button.
2. Select **folder** name.



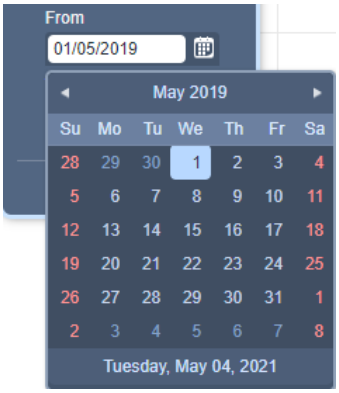
3. Select checkboxes for each row in the materials list or click on the checkbox header to mark all materials.
4. Click on **Print** button to open print menu options.
5. Click on **Vendors** checkbox under the SDS radio button options.
6. Click on **Products Added** radio button or **Products Updated or Issue Date**.

If "All" option is selected from the print menu, this option will generate reports for all materials in the list based on the current set pagination (or default); 25, 50, 100, 500 materials per page. The default pagination is always set to 25.

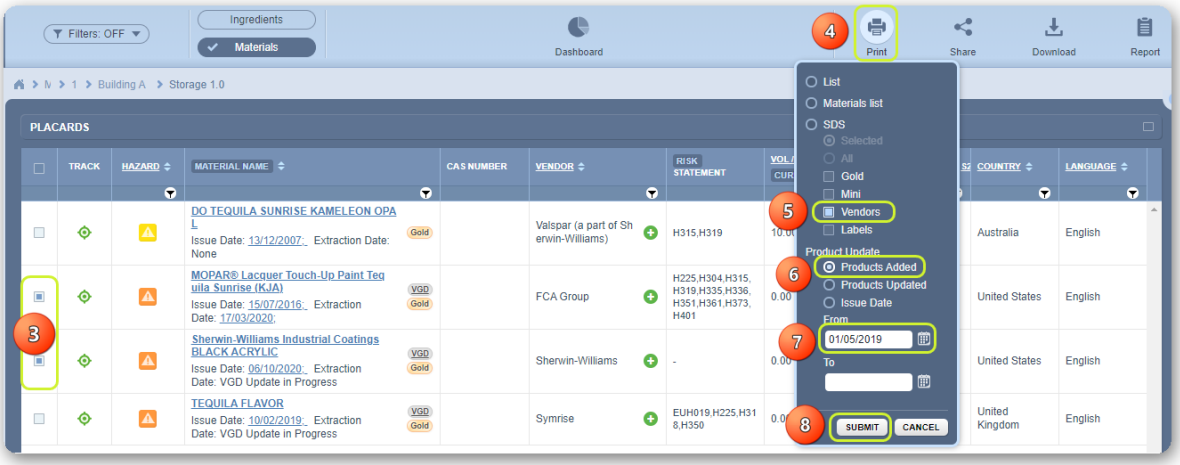
In this exercise, the **Product Update** batch file will be generated based on any available products added into your inventory and at least assign the "Form" date to pick a date range by selecting calendar dates. If you miss the "Form" date. A warning message will get displayed.



7. Select the **"From" date** and set a date from the calendar field.

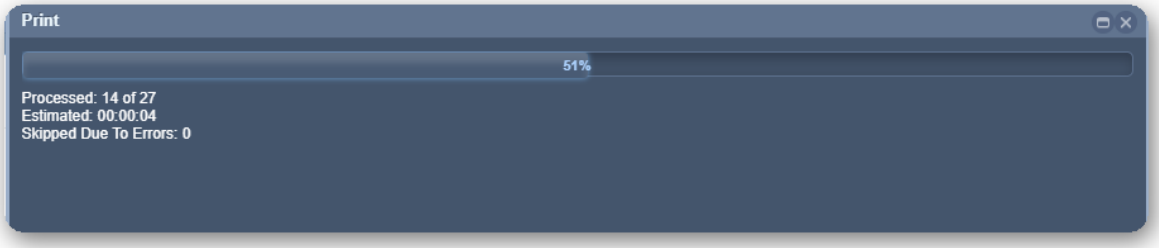


8. Click the **Submit** button to generate the file.

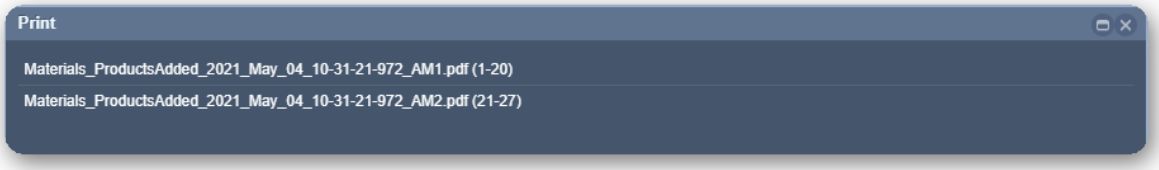


The print panel displays a process bar and estimated time frame to generate the batch links if there are multiple documents to process.

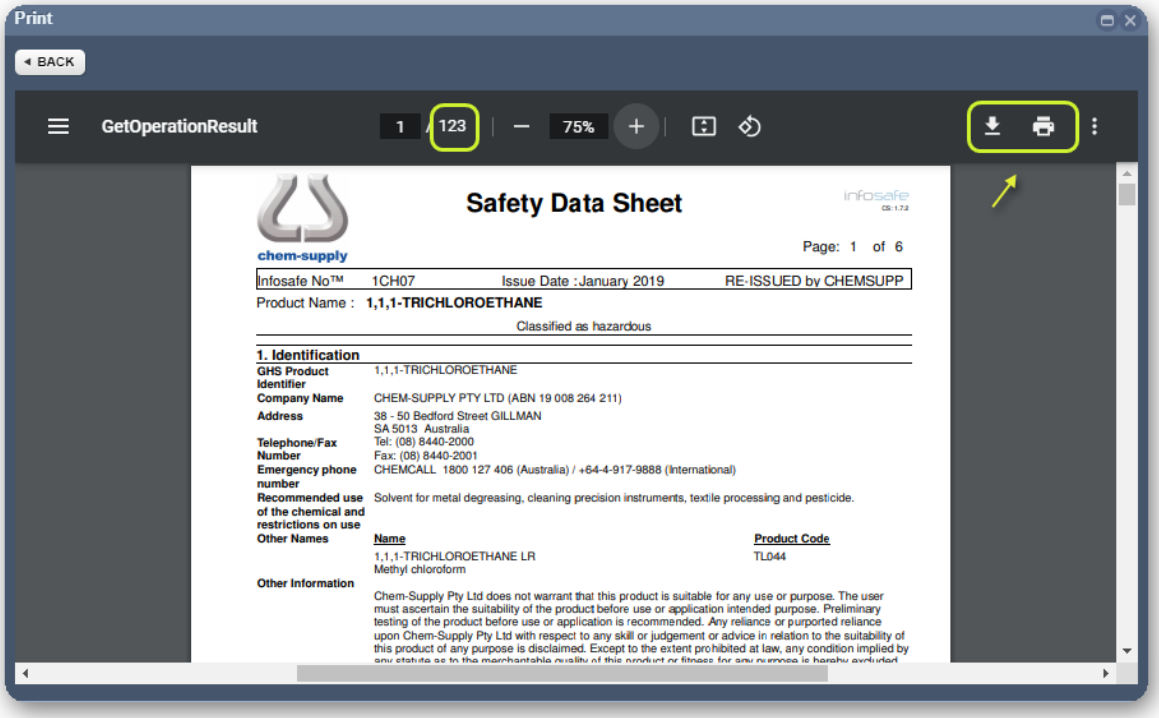
9. Select the **Print** icon from the pdf reader to print all the generated documents.



10. Select each batched processed data range per batch by **clicking the link** to open the file.



11. **Print** the Vendor SDS from the pdf reader print icon.



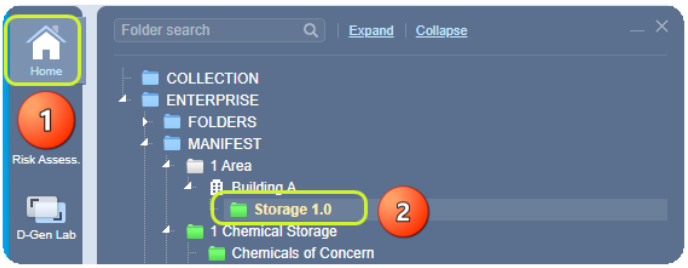
12. Click the **Close** button to go back to the list.

3.4.2 Batch Print Vendor SDS by Issue Date Range

The steps below will guide you to batch print Vendor SDS a few chosen materials from own folder by Issue Date range.

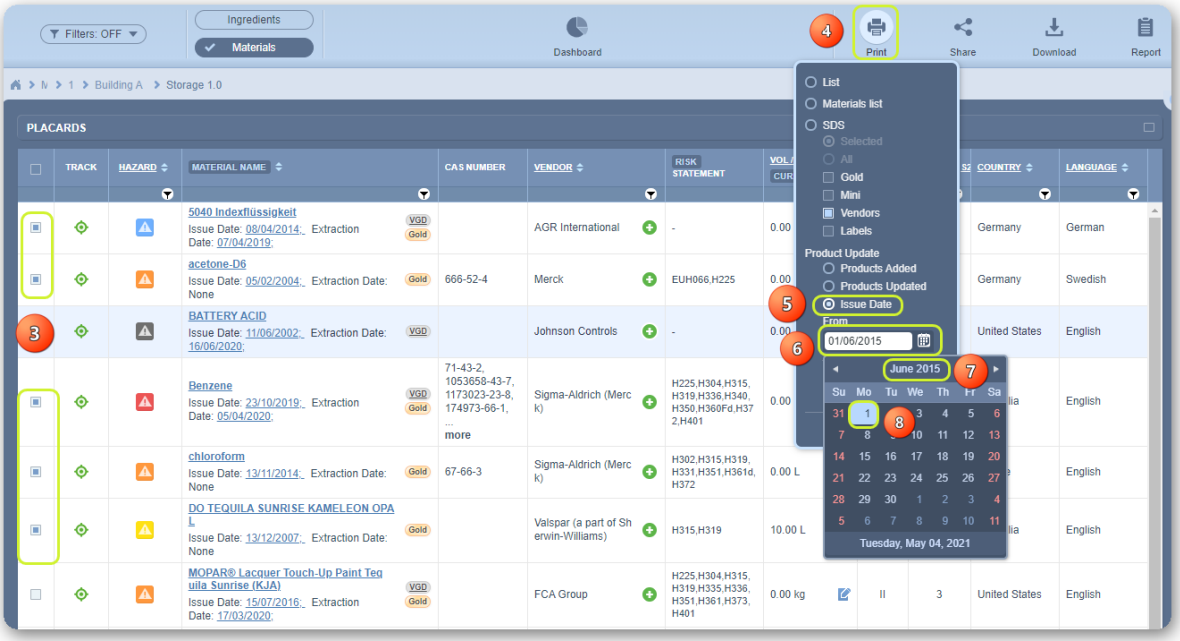
Steps: Batch print Vendor SDS by Issue Date Range

1. Select the **Home** module button.
2. Select **Folder** name .

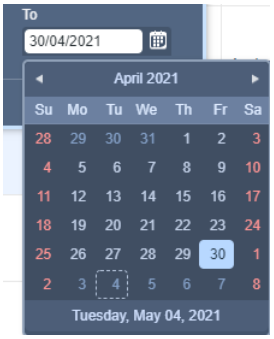


3. Select **Checkboxes** for each row in the materials list or click on the checkbox header to mark all materials in the list.
4. Click on **Print** button to open print menu options.
5. Click on **Issue Date** radio button under the Product Update segment.

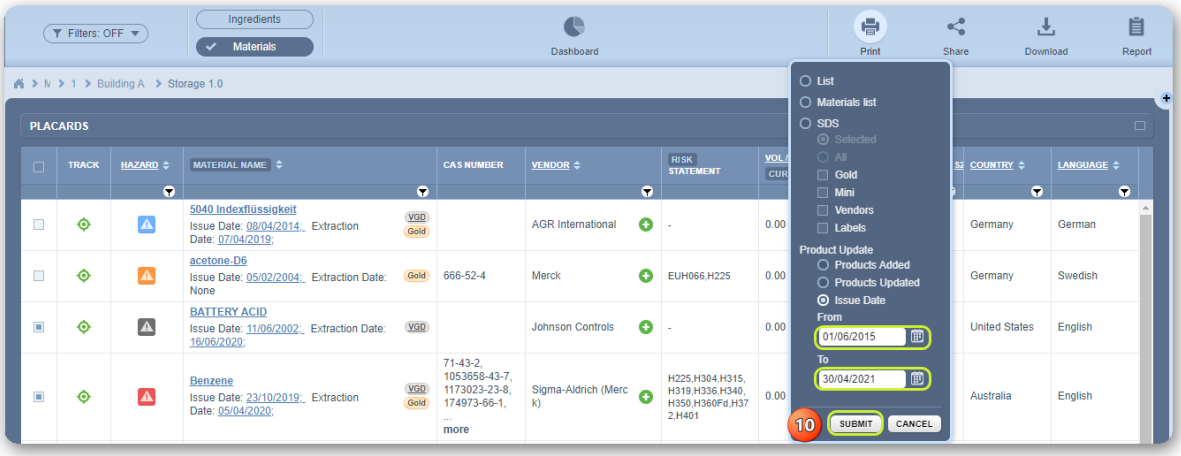
6. Select the "**From" calendar icon** to set the respective date.
7. Select the **month/year** to set the respective date.
8. Select the **day**.



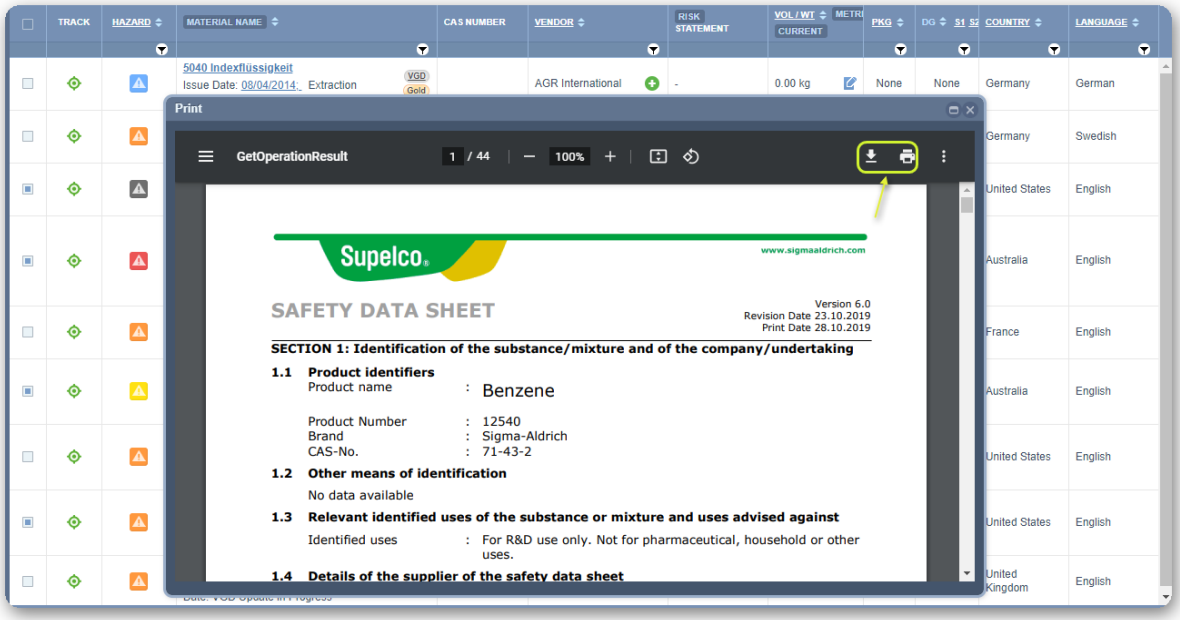
9. Select the "**To" calendar icon** to set the respective date.



10. Click the **Submit** button from the print panel to generate the batch file.



11. Print the Vendor SDS from the **pdf reader print** icon.



3.5 Saving External HTML Links Reports

The **Download** (Save) function for External HTML Links contains optional types of documents to choose from. In the following steps: these options are considered.

- Gold SDS
- Mini SDS
- Labels
- Vendors SDS

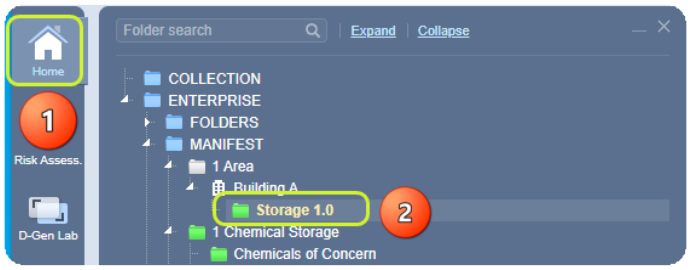
Download External Link HTML	
List, Materials List	**Download a list of materials** as HTML or PDF from the grid (either selected, current page or all).
External Link HTML Gold, Mini, Labels, Vendors	**Download specific type of document(s)** through an "**External Link HTML**" based on selected or all materials from the grid and choose the specific type of document (Mini SDS, Gold SDS, Vendors SDS or Labels). Note that Preferred Names for all materials can be included in the HTML report if required.

The steps below show how to download an **External HTML Links Report** for selected materials based on available types of documents; Vendor SDS, Gold SDS, Mini SDS and/or Labels.

Note that the External HTML Links document (Report) can be used to quickly render or display a selected material's type of generated document (Gold, Mini, Label or Vendor). You may also share links with your internal customers online or via email. To be able to generate such links, you must have an inventory or materials linked to available SDS in your folder locations/stores.

Steps: Download an External HTML Links Report

1. Select the **Home** module.
2. Select **Folder** name.

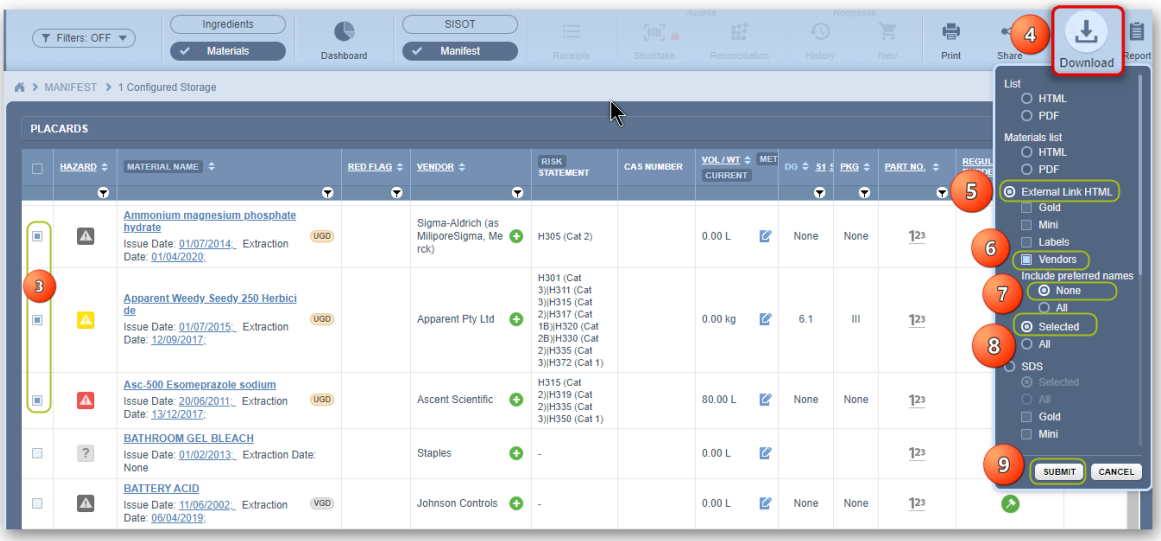


3. Select **Checkboxes** for each row in the Material list or click on the checkbox header to mark all materials in the displayed list. Note that if you ignore checkboxes from the grid, then you have to select "All" from the External Link HTML options. In this example, a few materials have been selected.
4. Click on **Download** button to open the menu for options.
5. Select **External Link HTML** radio button from the menu.
6. Select **Vendors** checkbox.
7. Click on **Selected** radio button or **All** for preferred names to be included (optional).

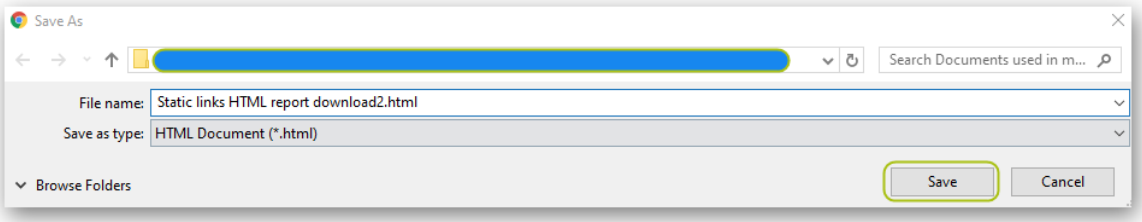
8. Click on **Selected** radio button or **All** for all materials in the list.

If "All checkbox" option is selected from the grid, the SDS will be generated for all materials in the list based on the current set pagination (or default); 25, 50, 100, 500 materials per page. Note that if a huge list of material SDS are selected, this may take some time to download.

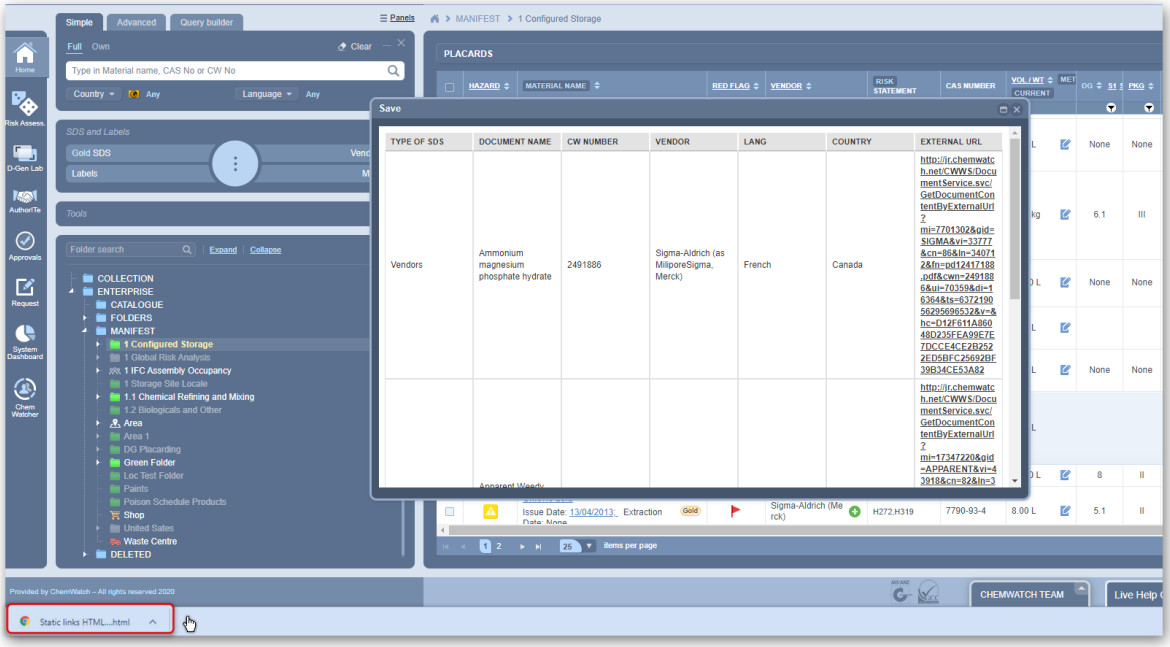
9. Click the **Submit** button to generate the HTML report.



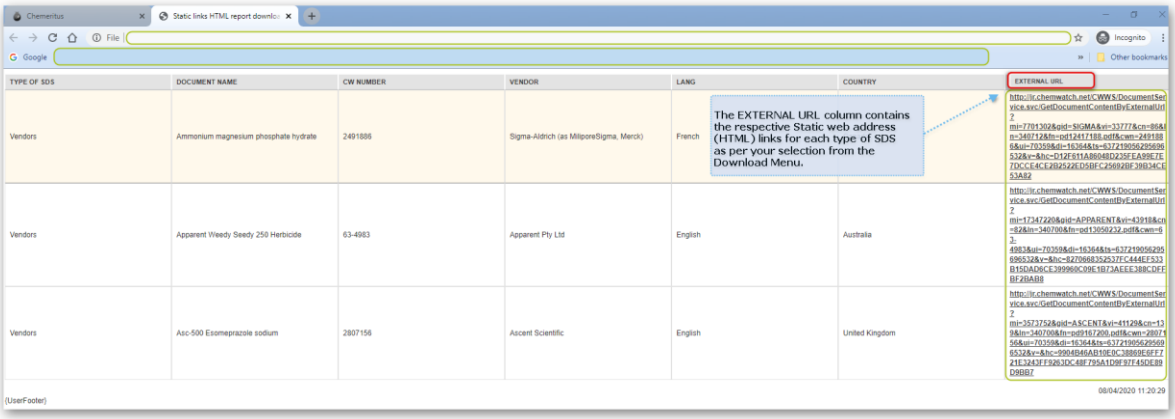
10. Save panel displays processed HTML file. Select the **Save** icon from your desktop or laptop location folder.



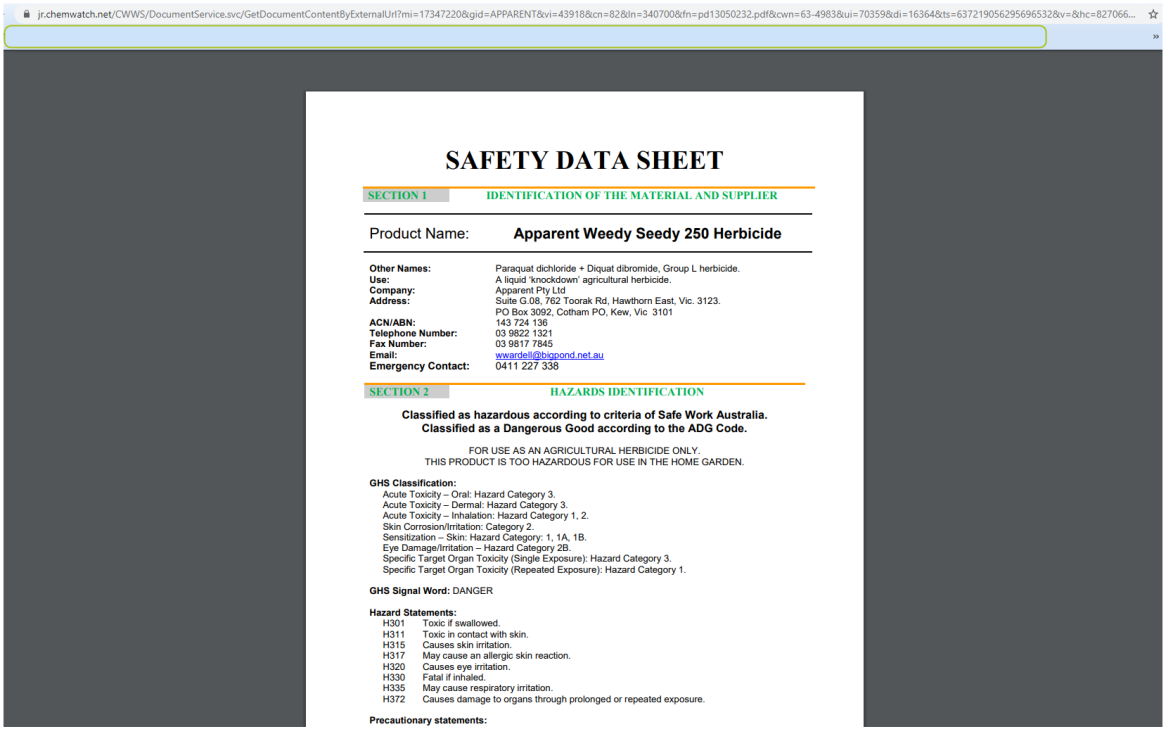
11. Click on the **Downloaded HTML file** from your desktop task bar to open the file.



The HTML file displays the following columns: Type of SDS, Document Name, CW Number, Vendor, Lang (for Language), Country and **EXTERNAL URL**. The EXTERNAL URL column contains the respective Static web address (HTML) links for each type of SDS as per your selection from the Download Menu.



12. Click on a **Document Name's associated External URL link** for a particular Vendor to display the respective SDS.



SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **Apparent Weedy Seedy 250 Herbicide**

Other Names: Paraquat dichloride + Diquat dibromide, Group L herbicide.
Use: A liquid 'knockdown' agricultural herbicide.
Company: Apparent Pty Ltd
Address: Suite G.08, 762 Toorak Rd, Hawthorn East, Vic. 3123.
PO Box 3092, Cotham PO, Kew, Vic 3101
ACN/ABN: 143 724 136
Telephone Number: 03 9822 1321
Fax Number: 03 9817 7845
Email: wwardell@bigpond.net.au
Emergency Contact: 0411 227 338

SECTION 2 HAZARDS IDENTIFICATION

Classified as hazardous according to criteria of Safe Work Australia.
Classified as a Dangerous Good according to the ADG Code.

FOR USE AS AN AGRICULTURAL HERBICIDE ONLY.
THIS PRODUCT IS TOO HAZARDOUS FOR USE IN THE HOME GARDEN.

GHS Classification:
Acute Toxicity – Oral: Hazard Category 3.
Acute Toxicity – Dermal: Hazard Category 3.
Acute Toxicity – Inhalation: Hazard Category 1, 2.
Skin Corrosion/Irritation: Category 2.
Sensitization – Skin: Hazard Category: 1, 1A, 1B.
Eye Damage/Irritation – Hazard Category 2B.
Specific Target Organ Toxicity (Single Exposure): Hazard Category 3.
Specific Target Organ Toxicity (Repeated Exposure): Hazard Category 1.

GHS Signal Word: DANGER

Hazard Statements:
H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H320 Causes eye irritation.
H330 Fatal if inhaled.
H335 May cause respiratory irritation.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary statements:

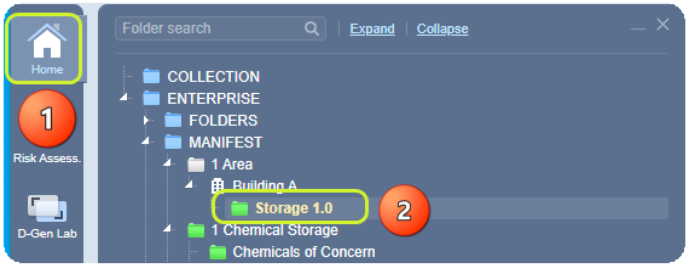
If there's a need to share specific External URL links internally or externally, use the links provided in the html file. For further details, contact heldpesk@chemwatch.net.

3.6 Print List of Materials

This exercise demonstrates the steps on "**how to print a list of materials**" into a single file in pdf format. This helps to collate a list for your inventory of chemical records for archiving.

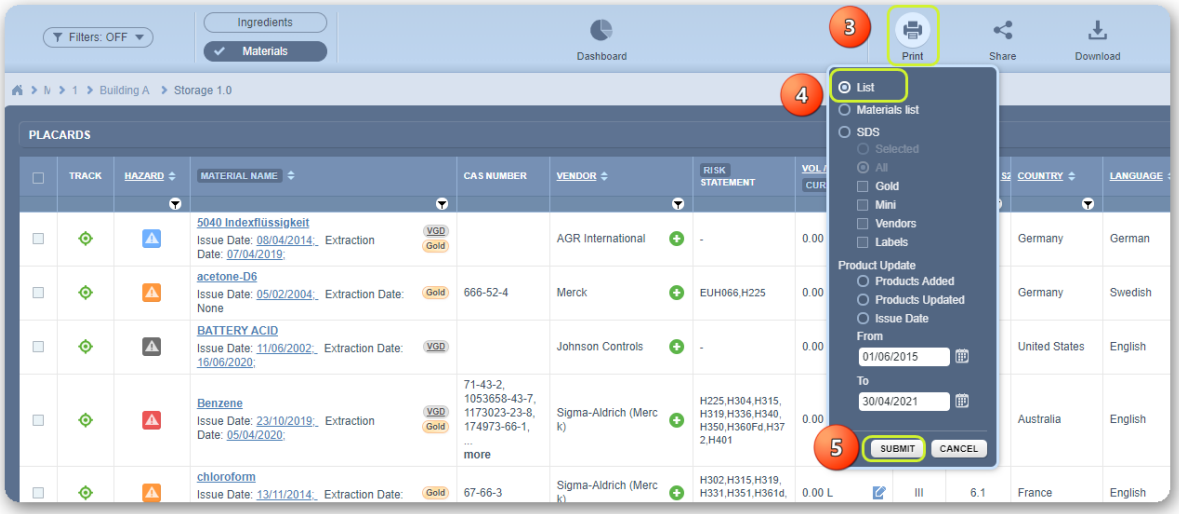
Steps: Print materials list into a single pdf file

1. Select the **Home** module.
2. Select **folder** name that contains materials.

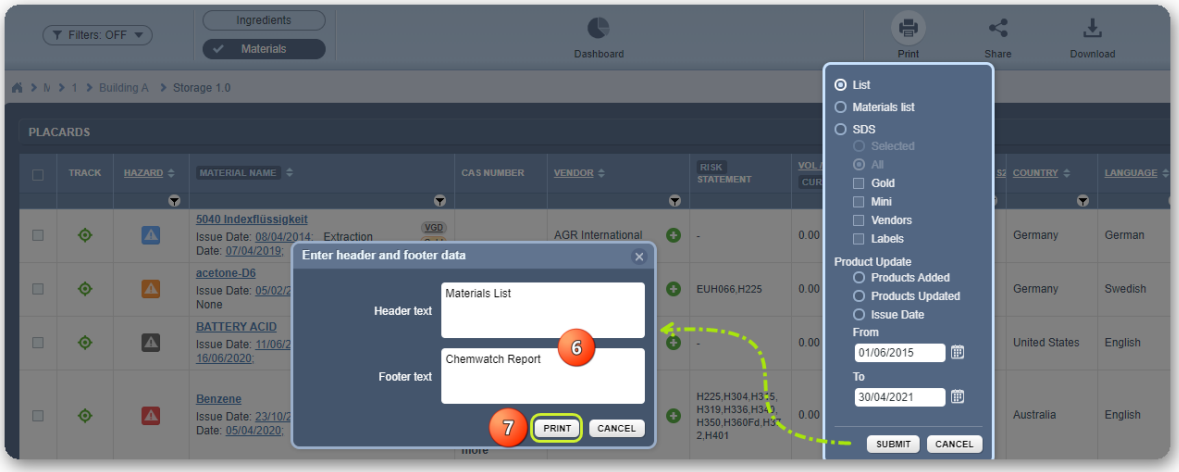


3. Click on **Print** button to open print menu options.

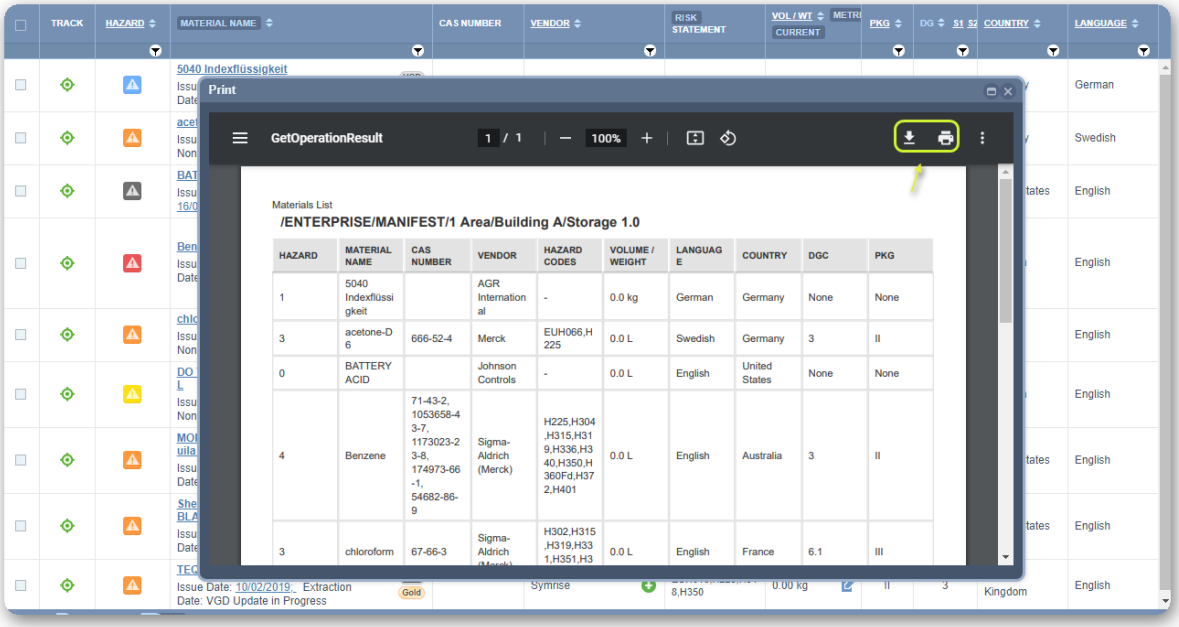
4. Select the **List** radio button option from the print menu.
5. Press the **Submit** button to generate report.



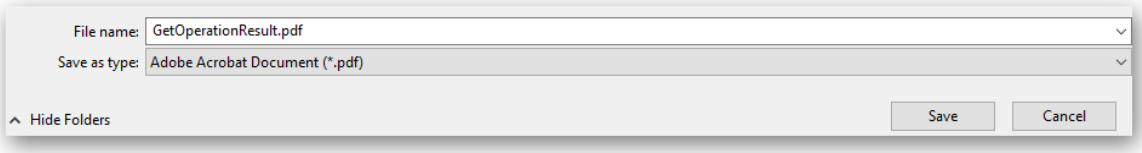
6. Enter **header** and **footer** information in the respective dialogue boxes' text fields to be generated in the final report.
7. Press the **Print** button to generate report.



8. Use the pdf reader icon to print or download the report.



9. Rename the file name if you selected the download option. Note that the system's default file name is "GetOperationResult.pdf".
10. Click on **Save** button to archive the report into your desktop or external drive.



HAZARD	MATERIAL NAME	CAS NUMBER	VENDOR	HAZARD CODES	VOLUME / WEIGHT	LANGUAGE	COUNTRY	DGC	PKG
1	5040 Indexflüssigkeit				0.0 kg	German	Germany	None	None
3	acetone-D6	666-52-4	Merck	EUH066,H225	0.0 L	Swedish	Germany	3	II
0	BATTERY ACID		Johnson Controls	-	0.0 L	English	United States	None	None
4	Benzene	71-43-2, 1053658-43-7, 1173023-23-8, 174973-66-1, 54682-86-9	Sigma-Aldrich (Merck)	H225,H304,H315,H319,H336,H340,H350,H360Fd,H372,H401	0.0 L	English	Australia	3	II
3	chloroform	67-66-3	Sigma-Aldrich (Merck)	H302,H315,H319,H331,H351,H361d,H372	0.0 L	English	France	6.1	III
2	DO TEQUILA SUNRISE KAMELEON OPAL		Valspar (a part of Sherwin-Williams)	H315,H319	10.0 L	English	Australia	None	None
3	MOPAR® Lacquer Touch-Up Paint Tequila Sunrise (KJA)		FCA Group	H225,H304,H315,H319,H335,H336,H351,H361,H373,H401	0.0 kg	English	United States	3	II
3	Sherwin-Williams Industrial Coatings BLA... A...		Sherwin-Williams	-	0.0 kg	English	United States	3	II
3	TEQUILA FLAVOR		Symrise	EUH019,H225,H318,H350	0.0 kg	English	United Kingdom	3	II

Appendix

Summary Structure of SDS

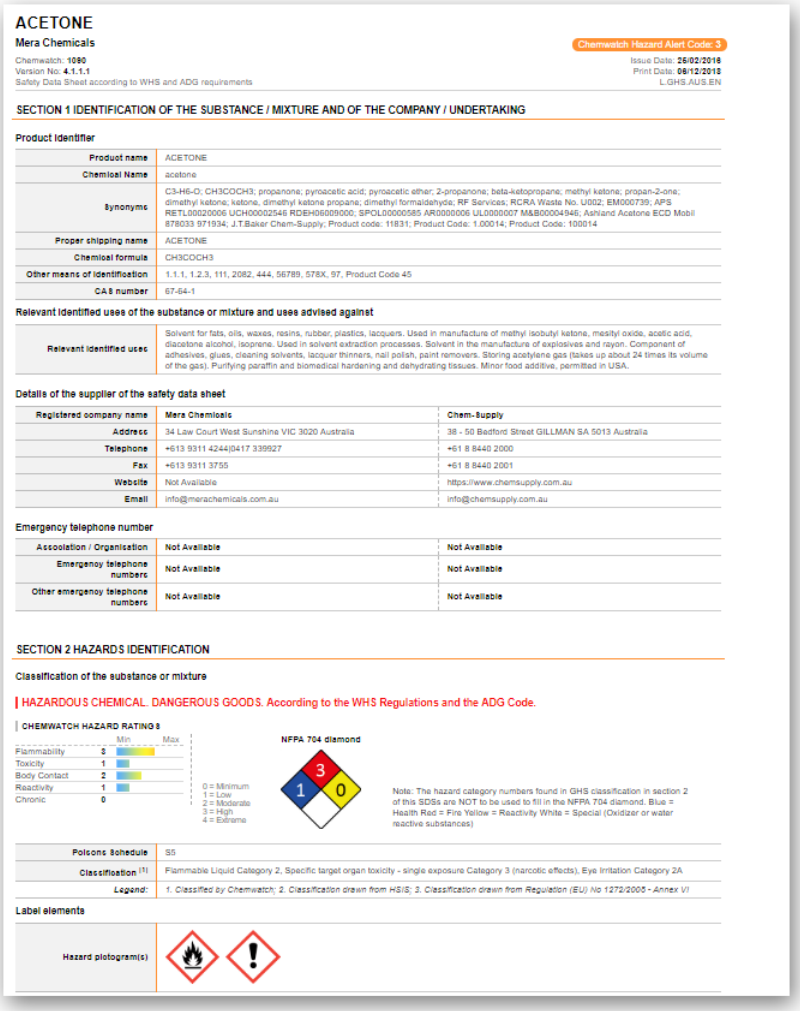
The Summary of the information contained in the Code of Practice for the Preparation of an SDS is tabled below. *[It is not a comprehensive list of information required on the SDS]*

Section	Headers
1. Product identifier & identity for the chemical	▸ Product Identifier ▸ Other means of identification ▸ Recommended use of the chemical and restrictions on use ▸ Supplier's name, address and phone number ▸ Emergency phone number
2. Hazard Identification	▸ Classification of the hazardous chemical ▸ Label elements, including precautionary statements ▸ Other hazards which do not result in classification
3. Composition/information on ingredients	▸ Identity of chemical ingredients ▸ CAS number and other unique identifiers ▸ Concentration of ingredients
4. First Aid Measures	▸ Description of necessary first aid measures ▸ Symptoms caused by exposure ▸ Medical Attention and Special Treatment
5. Fire Fighting Measures	▸ Suitable extinguishing media ▸ Specific hazards arising from the chemical ▸ Special protective equipment and precautions for fire fighters
6. Accidental release measures	▸ Personal precautions, protective equipment and emergency procedures ▸ Environmental precautions ▸ Methods and materials for containment and cleaning up
7. Handling and Storage	▸ Precautions for safe handling ▸ Conditions for safe storage, including any incompatibilities
8. Exposure controls/personal protection	▸ Control parameters – exposure standards, biological monitoring ▸ Appropriate engineering controls ▸ Personal protective equipment (PPE)
9. Physical and chemical properties	▸ Appearance ▸ Odour ▸ Odour threshold ▸ pH ▸ Melting point/freezing point ▸ Boiling point and boiling range ▸ Flash point

	▸ Evaporation rate ▸ Flammability ▸ Upper/lower flammability or explosive limits ▸ Vapour pressure ▸ Vapour density ▸ Relative density ▸ Solubility ▸ Partition coefficient: n-octanol/water ▸ Auto-ignition temperature ▸ Decomposition temperature ▸ Viscosity ▸ Specific heat value ▸ Particle size ▸ Volatile organic compounds content ▸ % volatile ▸ Saturated vapour concentration ▸ Release of invisible flammable vapours and gases
Additional parameters	▸ Shape and aspect ratio ▸ Crystallinity ▸ Dustiness ▸ Surface area ▸ Degree of aggregation or agglomeration ▸ Ionisation (redox potential) ▸ Biodurability or biopersistence
10. Stability and Reactivity	▸ Reactivity ▸ Chemical stability ▸ Conditions to avoid ▸ Incompatible materials and possible hazardous reactions ▸ Hazardous decomposition products
11. Toxicological information	▸ Information on routes of exposure ▸ Symptoms related to exposure ▸ Numerical measures of toxicity ▸ Immediate, delayed and chronic health effects from exposure ▸ Exposure Levels ▸ Interactive effects ▸ Data limitations
12. Ecological information	▸ Ecotoxicity ▸ Persistence and degradability ▸ Bioaccumulative potential ▸ Mobility in soil ▸ Other adverse effects
13. Disposal considerations	▸ Safe handling and disposal methods ▸ Disposal of any contaminated packaging

	▸ Environmental regulations
14. Transport information	▸ UN number ▸ Proper shipping name ▸ Transport hazard class(es) ▸ Packing group ▸ Environmental hazards ▸ Special precautions during transport ▸ Hazchem Code
15. Regulatory information	▸ Safety, health and environmental regulations specific for the product in question ▸ Poisons Schedule number
16. Other information	▸ Date of preparation or review ▸ Key abbreviations or acronyms used

Gold SDS Sample



ACETONE

Mera Chemicals

Chemwatch Hazard Alert Code: 3

Chemwatch: 1090
Version No: 4.1.1.1
Safety Data Sheet according to WHS and ADG requirements

Issue Date: 26/02/2016
Print Date: 06/12/2018
L.GHS.AUS.EN

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product Identifier

Product name	ACETONE
Chemical Name	acetone
Synonyms	C3-H6-O; CH3COCH3; propanone; pyroacetic acid; pyroacetic ether; 2-propanone; beta-ketopropane; methyl ketone; propan-2-one; dimethyl ketone; ketone, dimethyl ketone propane; dimethyl formaldehyde; RF Services; RCRA Waste No. U002; EM000739; APS RETL00020006 UCH00002546 RDEH00009000; SPOL00000585 AR0000006 UL0000007 M&B00004946; Ashland Acetone ECD Mobil 878033 971934; J.T.Baker Chem-Supply; Product code: 11831; Product Code: 1.00014; Product Code: 100014
Proper shipping name	ACETONE
Chemical formula	CH3COCH3
Other means of identification	1.1.1, 1.2.3, 111, 2082, 444, 56789, 578X, 97, Product Code 45
CAS number	67-64-1

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses	Solvent for fats, oils, waxes, resins, rubber, plastics, lacquers. Used in manufacture of methyl isobutyl ketone, mesityl oxide, acetic acid, diacetone alcohol, isoprene. Used in solvent extraction processes. Solvent in the manufacture of explosives and rayon. Component of adhesives, glues, cleaning solvents, lacquer thinners, nail polish, paint removers. Storing acetylene gas (takes up about 24 times its volume of the gas). Purifying paraffin and biomedical hardening and dehydrating tissues. Minor food additive, permitted in USA.

Details of the supplier of the safety data sheet

Registered company name	Mera Chemicals	Chem-Supply
Address	34 Law Court West Sunshine VIC 3020 Australia	38 - 50 Bedford Street GILLMAN SA 5013 Australia
Telephone	+613 9311 4244|0417 339927	+61 8 8440 2000
Fax	+613 9311 3755	+61 8 8440 2001
Website	Not Available	https://www.chemsupply.com.au
Email	info@merachemicals.com.au	info@chemsupply.com.au

Emergency telephone number

Association / Organisation	Not Available	Not Available
Emergency telephone numbers	Not Available	Not Available
Other emergency telephone numbers	Not Available	Not Available

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

CHEMWATCH HAZARD RATINGS

	Min	Max
Flammability	3	
Toxicity	1	
Body Contact	2	
Reactivity	1	
Chronic	0	

0 = Minimum
1 = Low
2 = Moderate
3 = High
4 = Extreme

NFPA 704 diamond

Note: The hazard category numbers found in GHS classification in section 2 of this SDSs are NOT to be used to fill in the NFPA 704 diamond. Blue = Health Red = Fire Yellow = Reactivity White = Special (Oxidizer or water reactive substances)

Poisons Schedule	S5
Classification [1]	Flammable Liquid Category 2, Specific target organ toxicity - single exposure Category 3 (narcotic effects), Eye Irritation Category 2A
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

Label elements

Hazard pictogram(s)	

Vendor SDS Sample

SIGMA-ALDRICH sigma-aldrich.com

SAFETY DATA SHEET

Version 3.16

Revision Date 21.08.2018

Print Date 22.09.2018

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name : Acetone

Product Number : 650501
Brand : Sigma-Aldrich

1.2 Other means of identification

No data available

1.3 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.4 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Pty. Ltd.
12 Anella Avenue
CASTLE HILL NSW 2154
AUSTRALIA

Telephone : +61 2 9841 0555 (1800 800 097)
Fax : +61 2 9841 0500 (1800 800 096)

1.5 Emergency telephone number

Emergency Phone # : Free call (24/7): 1800 448 465
Int'l (24/7): +61 2 9037 2994 (CHEMTREC)

2. HAZARDS IDENTIFICATION

2.1 GHS Classification

Flammable liquids (Category 2)
Serious eye damage/eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3), Central nervous system

2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Precautionary statement(s)

Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Mini SDS Sample

Chemwatch: 1090

Chemwatch Hazard Alert Code: 3

MINI SDS

ACETONE

INGREDIENTS	CAS NO	%	8HR OEL
acetone	67-64-1	95-99.5	1185 mg/m3

GHS

DG

UN No: **1090**
DG Class: 3
Subsidiary Risk: **Not Applicable**
Packing Group: II

PROPERTIES

Liquid. Mixes with water.Highly flammable.

EMERGENCY

HEALTH HAZARD INFORMATION

Signal word:	Danger	
Hazard statement(s):	H225	Highly flammable liquid and vapour.
	H303	May be harmful if swallowed.
	H313	May be harmful in contact with skin.
	H305	May be harmful if swallowed and enters airways.
	H316	Causes mild skin irritation.
	H319	Causes serious eye irritation.
	H336	May cause drowsiness or dizziness.
	H333	May be harmful if inhaled.

FIRST AID

Swallowed:	Give water (if conscious). Seek medical advice.
Eye:	Wash with running water.
Skin:	Remove contaminated clothing. Wash with soap & water.
Inhaled:	Fresh air. Rest, keep warm. If breathing shallow, give oxygen. Medical attention.
Advice To Doctor:	No antidote. Supportive care.
Fire Fighting:	Keep containers cool. Water spray/ fog. Foam - alcohol type.
Spills and Disposal:	Spilled liquid has low boiling temperature and evaporates quickly. Eliminate ignition sources. Consider evacuation. Prevent from entering drains. Contain spillage by any means. Control vapour with water spray/ fog. Absorb with dry agent. Stop leak if safe to do so. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. This material and its container must be disposed of in a safe way. To clean the floor and all objects contaminated by this material, use water.

PRECAUTIONS FOR USE

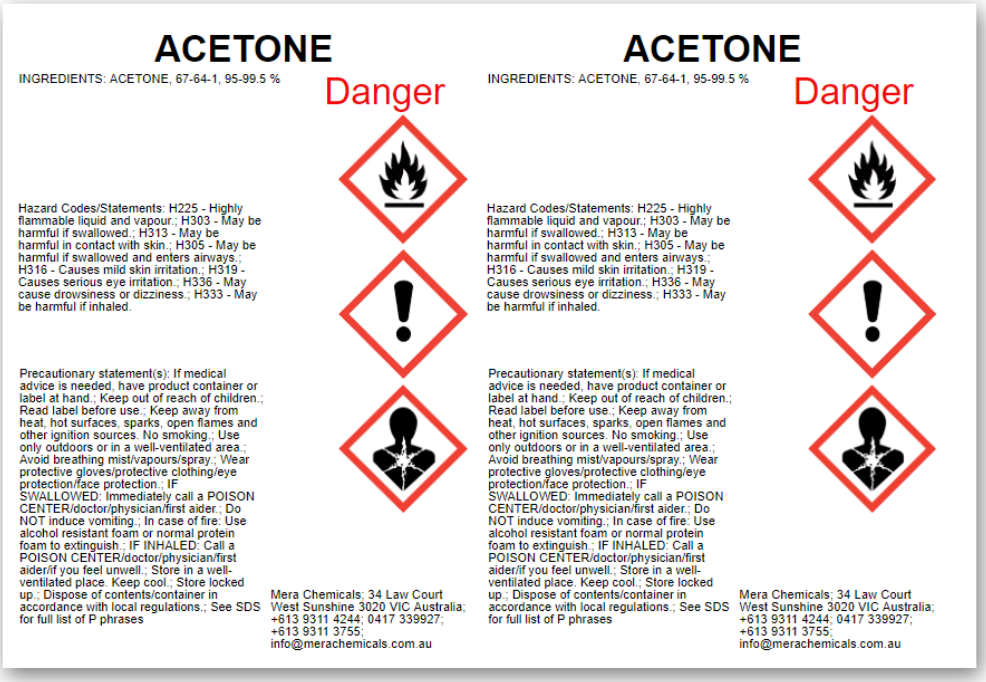
Appropriate engineering controls:	Local Exhaust Ventilation recommended.
Glasses:	Consider chemical goggles.
Gloves:	1.BUTYL/NEOPRENE 2.PE/EVAL/PE
Respirator:	Type AX Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)
Storage and Transportation:	Store in cool, dry, protected area. Restrictions on Storage apply. Refer to Full Report. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition. No smoking.
Fire/Explosion Hazard:	HIGHLY FLAMMABLE. Vapours/gas heavier than air. Toxic smoke/fumes in a fire. Use only in well ventilated areas. Take precautionary measures against static discharges. Dispose of this material and its container at hazardous or special waste collection point. In case of fire and/or explosion, DO NOT BREATHE FUMES.

SAFE STORAGE WITH OTHER CLASSIFIED CHEMICALS

+	x	x	x	+	+	+

x — *Must not be stored together*
0 — *May be stored together with specific preventions*
+ — *May be stored together*

Label Sample



List of Countries

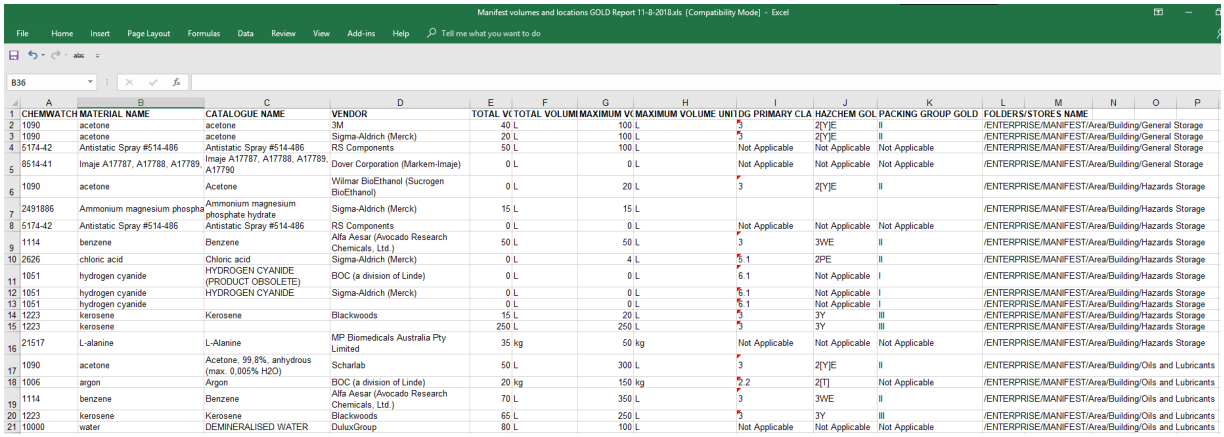
Filtering by Country

Filter list by country;

- Afghanistan
- Albania
- Algeria
- American Samoa
- Andorra
- Angola
- Argentina
- Aruba
- Australia
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Belarus
- Belgium
- Bermuda
- Bolivia
- Botswana
- Brazil
- Brunei Darussalam
- Bulgaria
- Canada
- Cape Verde
- Chile
- China
- China (Hong Kong)
- Colombia
- Congo, Republic of
- Costa Rica
- Croatia
- Cuba
- Cyprus
- Czech Republic
- Denmark
- Djibouti
- Dominican Republic
- Ecuador
- Egypt
- El Salvador
- Estonia
- Falkland Islands (Malvinas)
- Faroe Islands
- Fiji
- Finland
- France
- Germany
- Ghana
- Greece
- Guam
- Guatemala
- Haiti
- Honduras
- Hungary
- Iceland
- India
- Indonesia
- Iran
- Iraq
- Ireland
- Israel
- Italy
- Ivory Coast
- Japan
- Jordan
- Kazakhstan
- Kenya
- Korea (Democratic Republic of)
- Korea (Republic of)
- Kuwait
- Latvia
- Lebanon
- Liberia
- Lichtenstein
- Lithuania
- Luxembourg
- Macedonia
- Madagascar
- Malaysia
- Malta
- Mauritania
- Mauritius
- Mexico
- Monaco
- Mongolia
- Montenegro
- Morocco
- Mozambique
- Myanmar
- Namibia
- Netherlands
- Netherlands Antilles
- New Zealand
- Nicaragua
- Nigeria
- Norway
- Oman
- Pakistan
- Panama
- Papua New Guinea
- Paraguay
- Peru
- Philippines
- Poland
- Portugal
- Puerto Ricco
- Qatar
- Romania
- Russian Federation
- Saudi Arabia
- Senegal
- Serbia
- Serra Leone
- Singapore
- Slovakia
- Slovenia
- South Africa
- Spain
- Sri Lanka
- Suriname
- Swaziland
- Sweden
- Switzerland
- Taiwan
- Tajikistan
- Tanzania
- Thailand
- Trinidad and Tobago
- Turkey
- Turkmenistan
- Uganda
- Ukraine
- United Arab Emirates
- United Kingdom
- United States
- United States Minor
- Uruguay
- Vanuatu
- Venezuela
- Vietnam
- Yemen
- Zambia
- Zimbabwe

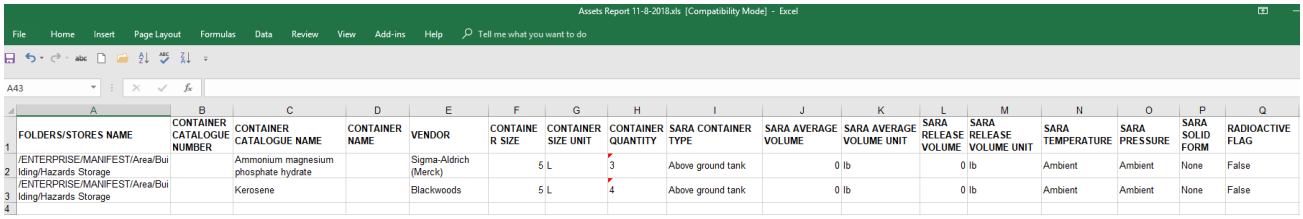
Generated Reports using Basic Templates

Manifest volumes and location GOLD Report



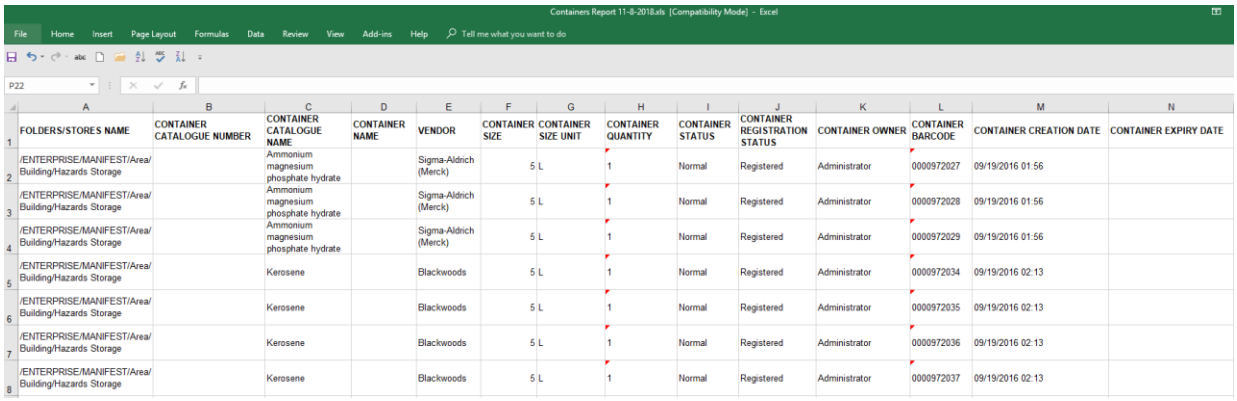
CHEMWATCH	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL VC	TOTAL VOLUMI	MAXIMUM VC	MAXIMUM VOLUME UNIT	DG PRIMARY CLA	HAZCHEM GOL	PACKING GROUP GOLD	FOLDERS/STORES NAME
1090	acetone	acetone	3M	40	L	100	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L	100	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	50	L	100	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
8514-41	Imaje A17787, A17788, A17789,	Imaje A17787, A17788, A17789, A17790	Dover Corporation (Markem-Imaje)	0	L	0	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2491886	Ammonium magnesium phospha	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	15	L	15	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L	0	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L	50	L	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L	5.1	2PE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)	0	L	0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	0	L	0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide			0	L	0	L	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene	Kerosene	Blackwoods	15	L	20	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene			250	L	250	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited	35	kg	50	kg	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1090	acetone	Acetone, 99.8%, anhydrous (max. 0.005% H2O)	Scharlab	50	L	300	L	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1006	argon	Argon	BOC (a division of Linde)	20	kg	150	kg	2.2	2[T]	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	70	L	350	L	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1223	kerosene	Kerosene	Blackwoods	65	L	250	L	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
10000	water	DEMINERALISED WATER	DuluxGroup	80	L	100	L	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

Assets Report



FOLDERS/STORES NAME	CONTAINER CATALOGUE NUMBER	CONTAINER CATALOGUE NAME	CONTAINER NAME	VENDOR	CONTAINER SIZE	CONTAINER SIZE UNIT	CONTAINER QUANTITY	SARA CONTAINER TYPE	SARA AVERAGE VOLUME	SARA AVERAGE VOLUME UNIT	SARA RELEASE VOLUME	SARA RELEASE VOLUME UNIT	SARA TEMPERATURE	SARA PRESSURE	SARA SOLID FORM	RADIOACTIVE FLAG
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Ammonium magnesium phosphate hydrate		Sigma-Aldrich (Merck)	5	L	3	Above ground tank	0	lb	0	lb	Ambient	Ambient	None	False
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Kerosene		Blackwoods	5	L	4	Above ground tank	0	lb	0	lb	Ambient	Ambient	None	False

Containers Report



FOLDERS/STORES NAME	CONTAINER CATALOGUE NUMBER	CONTAINER CATALOGUE NAME	CONTAINER NAME	VENDOR	CONTAINER SIZE	CONTAINER SIZE UNIT	CONTAINER QUANTITY	CONTAINER STATUS	CONTAINER REGISTRATION STATUS	CONTAINER OWNER	CONTAINER BARCODE	CONTAINER CREATION DATE	CONTAINER EXPIRY DATE
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Ammonium magnesium phosphate hydrate		Sigma-Aldrich (Merck)	5	L	1	Normal	Registered	Administrator	0000972027	09/19/2016 01:56	
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Ammonium magnesium phosphate hydrate		Sigma-Aldrich (Merck)	5	L	1	Normal	Registered	Administrator	0000972028	09/19/2016 01:56	
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Ammonium magnesium phosphate hydrate		Sigma-Aldrich (Merck)	5	L	1	Normal	Registered	Administrator	0000972029	09/19/2016 01:56	
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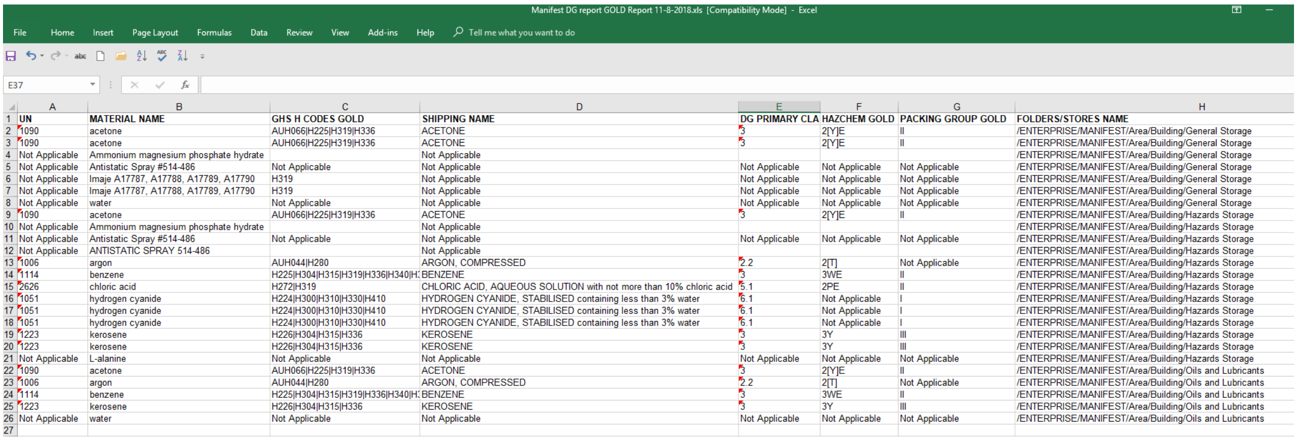
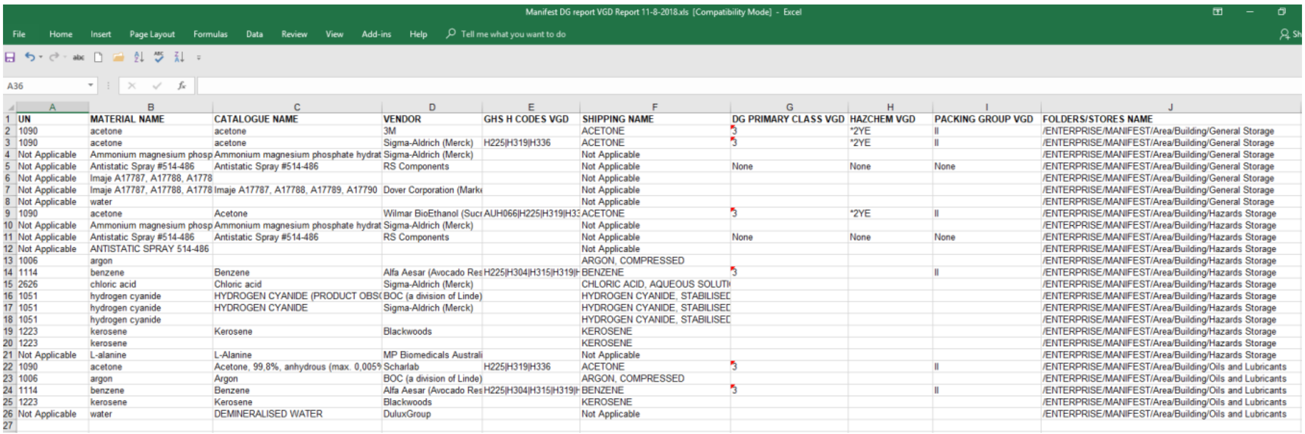
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Kerosene		Blackwoods	5	L	1	Normal	Registered	Administrator	0000972035	09/19/2016 02:13	
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Kerosene		Blackwoods	5	L	1	Normal	Registered	Administrator	0000972036	09/19/2016 02:13	
/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage		Kerosene		Blackwoods	5	L	1	Normal	Registered	Administrator	0000972037	09/19/2016 02:13	

Manifest DG report GOLD



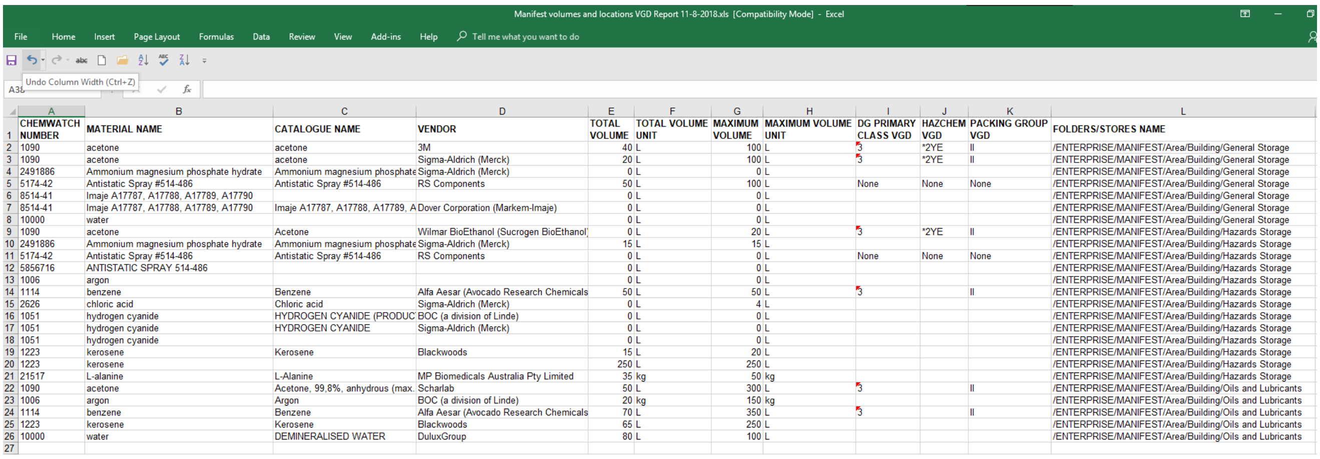
UN	MATERIAL NAME	GHS H CODES GOLD	SHIPPING NAME	DG PRIMARY CLA	HAZCHEM GOLD	PACKING GROUP GOLD	FOLDERS/STORES NAME
1090	acetone	AUH066|H225|H319|H336	ACETONE	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	AUH066|H225|H319|H336	ACETONE	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Ammonium magnesium phosphate hydrate		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Antistatic Spray #514-486	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Imaje A17787, A17788, A17789, A17790	H319	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Imaje A17787, A17788, A17789, A17790	H319	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	AUH066|H225|H319|H336	ACETONE	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	Ammonium magnesium phosphate hydrate		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	Antistatic Spray #514-486	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	ANTISTATIC SPRAY 514-486		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1006	argon	AUH044|H280	ARGON, COMPRESSED	2.2	2[T]	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1114	benzene	H225|H304|H315|H319|H336|H340|H	BENZENE	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2626	chloric acid	H272|H319	CHLORIC ACID, AQUEOUS SOLUTION with not more than 10% chloric acid	5.1	2PE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	H224|H300|H310|H330|H410	HYDROGEN CYANIDE, STABILISED containing less than 3% water	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	H224|H300|H310|H330|H410	HYDROGEN CYANIDE, STABILISED containing less than 3% water	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	H224|H300|H310|H330|H410	HYDROGEN CYANIDE, STABILISED containing less than 3% water	6.1	Not Applicable	I	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene	H226|H304|H315|H336	KEROSENE	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene	H226|H304|H315|H336	KEROSENE	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	L-alanine	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1090	acetone	AUH066|H225|H319|H336	ACETONE	3	2[Y]E	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1006	argon	AUH044|H280	ARGON, COMPRESSED	2.2	2[T]	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1114	benzene	H225|H304|H315|H319|H336|H340|H	BENZENE	3	3WE	II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1223	kerosene	H226|H304|H315|H336	KEROSENE	3	3Y	III	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
Not Applicable	water	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

Manifest report VGD



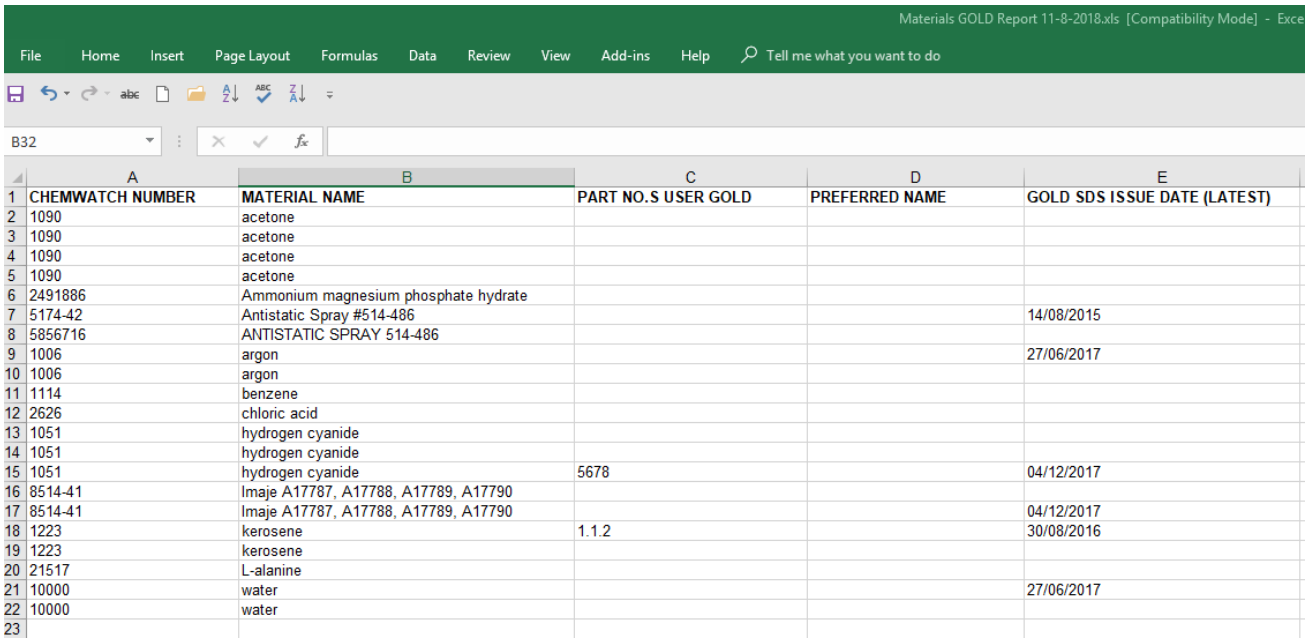
UN	MATERIAL NAME	CATALOGUE NAME	VENDOR	GHS H CODES VGD	SHIPPING NAME	DG PRIMARY CLASS VGD	HAZCHEM VGD	PACKING GROUP VGD	FOLDERS/STORES NAME
1090	acetone	acetone	3M		ACETONE	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	acetone	Sigma-Aldrich (Merck)	H225|H319|H336	ACETONE	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Ammonium magnesium phosp	Ammonium magnesium phosphate hydrat	Sigma-Aldrich (Merck)		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components		Not Applicable	None	None	None	/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Imaje A17787, A17788, A1778				Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	Imaje A17787, A17788, A1778	Imaje A17787, A17788, A17789, A17790	Dover Corporation (Marke		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/General Storage
Not Applicable	water				Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	Acetone	Wilmar BioEthanol (Sucr	AUH066|H225|H319|H33	ACETONE	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	Ammonium magnesium phosp	Ammonium magnesium phosphate hydrat	Sigma-Aldrich (Merck)		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components		Not Applicable	None	None	None	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	ANTISTATIC SPRAY 514-486				Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1006	argon				ARGON, COMPRESSED				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1114	benzene	Benzene	Alfa Aesar (Avocado Res	H225|H304|H315|H319|H	BENZENE	3		II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)		CHLORIC ACID, AQUEOUS SOLUTI				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBS(	BOC (a division of Linde)		HYDROGEN CYANIDE, STABILISED				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)		HYDROGEN CYANIDE, STABILISED				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide				HYDROGEN CYANIDE, STABILISED				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene	Kerosene	Blackwoods		KEROSENE				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene				KEROSENE				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
Not Applicable	L-alanine	L-Alanine	MP Biomedicals Australi		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1090	acetone	Acetone, 99,8%, anhydrous (max. 0,005%	Scharlab	H225|H319|H336	ACETONE	3		II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1006	argon	Argon	BOC (a division of Linde)		ARGON, COMPRESSED				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1114	benzene	Benzene	Alfa Aesar (Avocado Res	H225|H304|H315|H319|H	BENZENE	3		II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1223	kerosene	Kerosene	Blackwoods		KEROSENE				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
Not Applicable	water	DEMINERALISED WATER	DuluxGroup		Not Applicable				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

Manifest volumes and location VGD Report



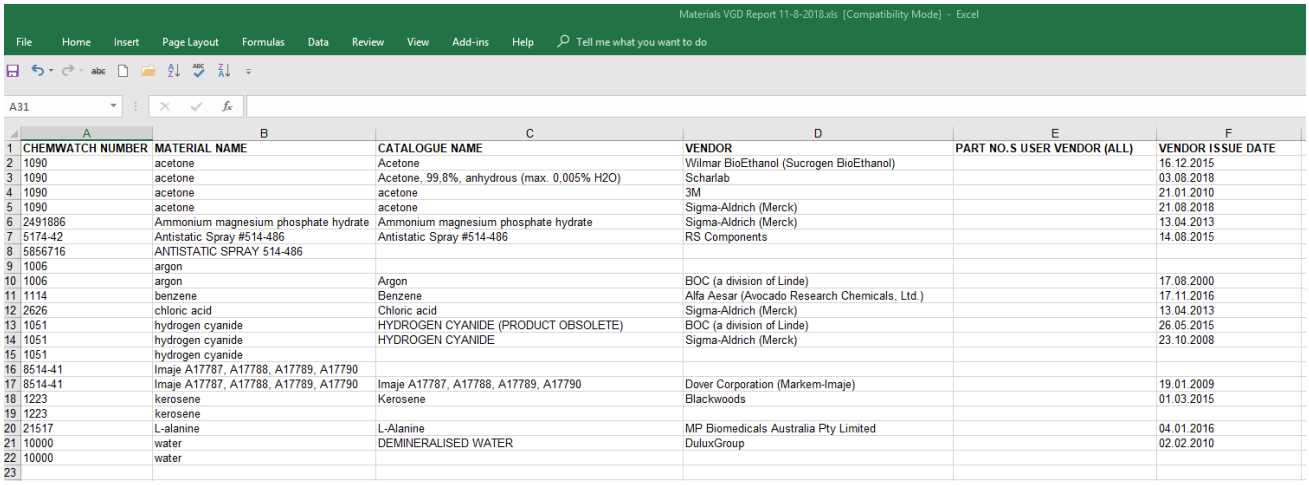
CHEMWATCH NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL VOLUME	TOTAL VOLUME UNIT	MAXIMUM VOLUME	MAXIMUM VOLUME UNIT	DG PRIMARY CLASS VGD	HAZCHEM VGD	PACKING GROUP VGD	FOLDERS/STORES NAME
1090	acetone	acetone	3M	40	L	100	L	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L	100	L	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/General Storage
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate	Sigma-Aldrich (Merck)	0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/General Storage
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	50	L	100	L	None	None	None	/ENTERPRISE/MANIFEST/Area/Building/General Storage
8514-41	Imaje A17787, A17788, A17789, A17790			0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/General Storage
8514-41	Imaje A17787, A17788, A17789, A17790	Imaje A17787, A17788, A17789, A	Dover Corporation (Markem-Imaje)	0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/General Storage
10000	water			0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/General Storage
1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	*2YE	II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate	Sigma-Aldrich (Merck)	15	L	15	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L	0	L	None	None	None	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
5856716	ANTISTATIC SPRAY 514-486			0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1006	argon			0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals	50	L	50	L	3		II	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUC	BOC (a division of Linde)	0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1051	hydrogen cyanide			0	L	0	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene	Kerosene	Blackwoods	15	L	20	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1223	kerosene			250	L	250	L				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited	35	kg	50	kg				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
1090	acetone	Acetone, 99,8%, anhydrous (max.	Scharlab	50	L	300	L	3		II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1006	argon	Argon	BOC (a division of Linde)	20	kg	150	kg				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals	70	L	350	L	3		II	/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
1223	kerosene	Kerosene	Blackwoods	65	L	250	L				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
10000	water	DEMINERALISED WATER	DuluxGroup	80	L	100	L				/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

Materials GOLD Report



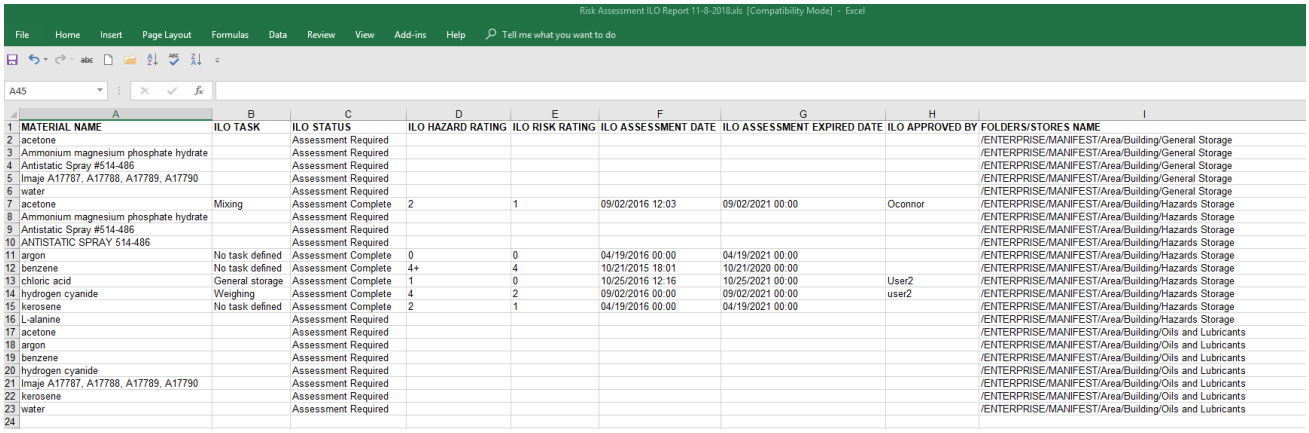
	A	B	C	D	E
1	CHEMWATCH NUMBER	MATERIAL NAME	PART NO.S USER GOLD	PREFERRED NAME	GOLD SDS ISSUE DATE (LATEST)
2	1090	acetone			
3	1090	acetone			
4	1090	acetone			
5	1090	acetone			
6	2491886	Ammonium magnesium phosphate hydrate			
7	5174-42	Antistatic Spray #514-486			14/08/2015
8	5856716	ANTISTATIC SPRAY 514-486			
9	1006	argon			27/06/2017
10	1006	argon			
11	1114	benzene			
12	2626	chloric acid			
13	1051	hydrogen cyanide			
14	1051	hydrogen cyanide			
15	1051	hydrogen cyanide	5678		04/12/2017
16	8514-41	Imaje A17787, A17788, A17789, A17790			
17	8514-41	Imaje A17787, A17788, A17789, A17790			04/12/2017
18	1223	kerosene	1.1.2		30/08/2016
19	1223	kerosene			
20	21517	L-alanine			
21	10000	water			27/06/2017
22	10000	water			
23					

Materials VGD Report



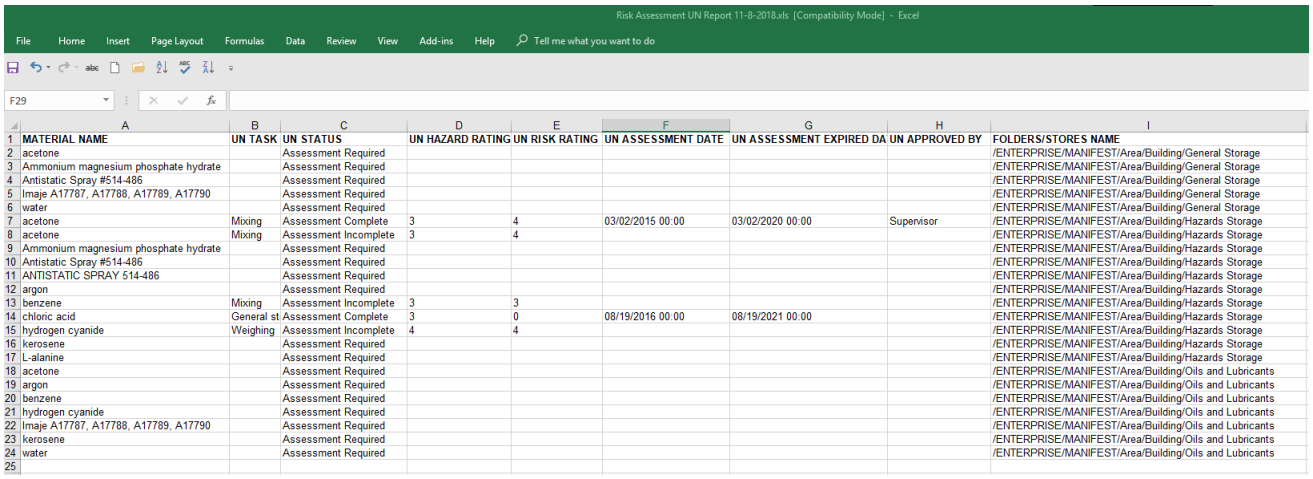
	A	B	C	D	E	F
1	CHEMWATCH NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	PART NO.S USER VENDOR (ALL)	VENDOR ISSUE DATE
2	1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)		16.12.2015
3	1090	acetone	Acetone, 99,8%, anhydrous (max. 0,005% H2O)	Scharlab		03.08.2018
4	1090	acetone	acetone	3M		21.01.2010
5	1090	acetone	acetone	Sigma-Aldrich (Merck)		21.08.2018
6	2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)		13.04.2013
7	5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components		14.08.2015
8	5856716	ANTISTATIC SPRAY 514-486				
9	1006	argon				
10	1006	argon	Argon	BOC (a division of Linde)		17.08.2000
11	1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)		17.11.2016
12	2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)		13.04.2013
13	1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)		26.05.2015
14	1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)		23.10.2008
15	1051	hydrogen cyanide				
16	8514-41	Imaje A17787, A17788, A17789, A17790				
17	8514-41	Imaje A17787, A17788, A17789, A17790	Imaje A17787, A17788, A17789, A17790	Dover Corporation (Markem-Imaje)		19.01.2009
18	1223	kerosene	Kerosene	Blackwoods		01.03.2015
19	1223	kerosene				
20	21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited		04.01.2016
21	10000	water	DEMINERALISED WATER	DuluxGroup		02.02.2010
22	10000	water				
23						

Risk Assessment ILO



	A	B	C	D	E	F	G	H	I
1	MATERIAL NAME	ILO TASK	ILO STATUS	ILO HAZARD RATING	ILO RISK RATING	ILO ASSESSMENT DATE	ILO ASSESSMENT EXPIRED DATE	ILO APPROVED BY	FOLDERS/STORES NAME
2	acetone		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
3	Ammonium magnesium phosphate hydrate		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
4	Antistatic Spray #514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
5	Imaje A17787, A17788, A17789, A17790		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
6	water		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
7	acetone	Mixing	Assessment Complete	2	1	09/02/2016 12:03	09/02/2021 00:00	Oconnor	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
8	Ammonium magnesium phosphate hydrate		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
9	Antistatic Spray #514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
10	ANTISTATIC SPRAY 514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
11	argon	No task defined	Assessment Complete	0	0	04/19/2016 00:00	04/19/2021 00:00		/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
12	benzene	No task defined	Assessment Complete	4+	4	10/21/2015 18:01	10/21/2020 00:00		/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
13	chloric acid	General storage	Assessment Complete	1	0	10/25/2016 12:16	10/25/2021 00:00	User2	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
14	hydrogen cyanide	Weighing	Assessment Complete	4	2	09/02/2016 00:00	09/02/2021 00:00	user2	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
15	kerosene	No task defined	Assessment Complete	2	1	04/19/2016 00:00	04/19/2021 00:00		/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
16	L-alanine		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
17	acetone		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
18	argon		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
19	benzene		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
20	hydrogen cyanide		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
21	Imaje A17787, A17788, A17789, A17790		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
22	kerosene		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
23	water		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
24									

Risk Assessment UN Report



Risk Assessment UN Report 11-8-2018.xls [Compatibility Mode] - Excel

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F29

	A	B	C	D	E	F	G	H	I
1	MATERIAL NAME	UN TASK	UN STATUS	UN HAZARD RATING	UN RISK RATING	UN ASSESSMENT DATE	UN ASSESSMENT EXPIRED DA	UN APPROVED BY	FOLDERS/STORES NAME
2	acetone		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
3	Ammonium magnesium phosphate hydrate		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
4	Antistatic Spray #514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
5	Imaje A17787, A17788, A17789, A17790		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
6	water		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/General Storage
7	acetone	Mixing	Assessment Complete	3	4	03/02/2015 00:00	03/02/2020 00:00	Supervisor	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
8	acetone	Mixing	Assessment Incomplete	3	4				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
9	Ammonium magnesium phosphate hydrate		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
10	Antistatic Spray #514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
11	ANTISTATIC SPRAY 514-486		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
12	argon		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
13	benzene	Mixing	Assessment Incomplete	3	3				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
14	chloric acid	General st	Assessment Complete	3	0	08/19/2016 00:00	08/19/2021 00:00		/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
15	hydrogen cyanide	Weighing	Assessment Incomplete	4	4				/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
16	kerosene		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
17	L-alanine		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage
18	acetone		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
19	argon		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
20	benzene		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
21	hydrogen cyanide		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
22	Imaje A17787, A17788, A17789, A17790		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
23	kerosene		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
24	water		Assessment Required						/ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants
25									

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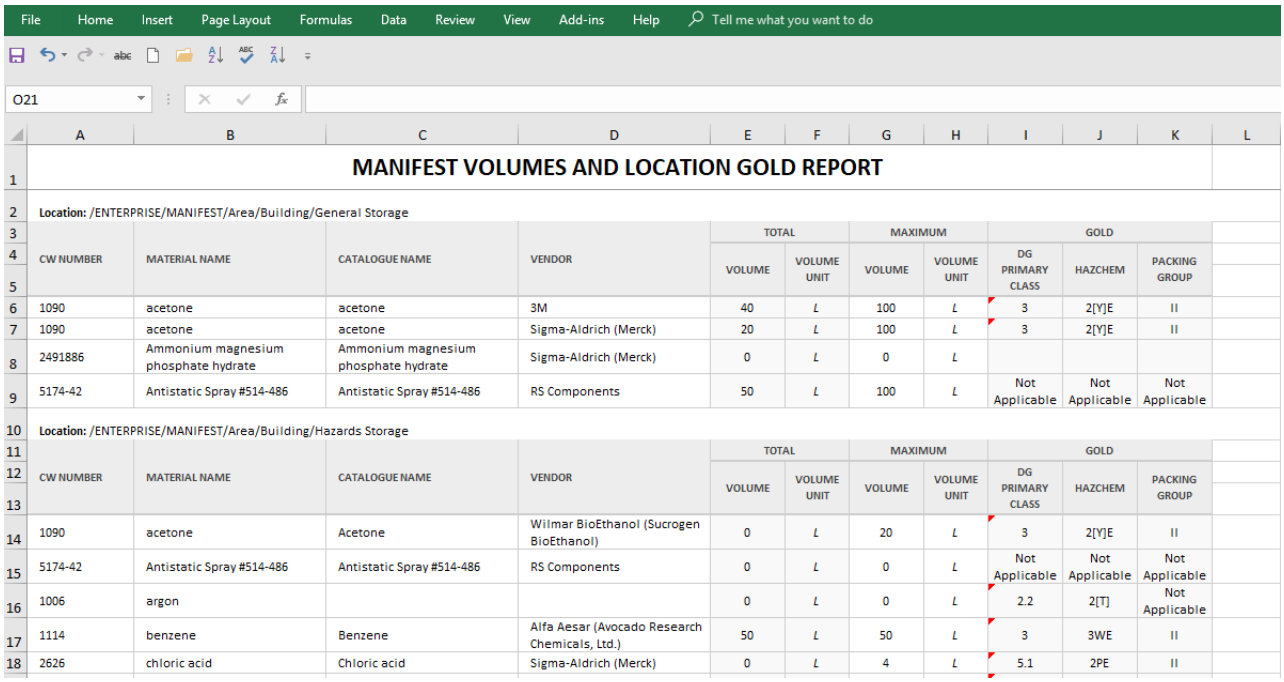
Soft Light Theme for Manifest volumes a locations GOLD



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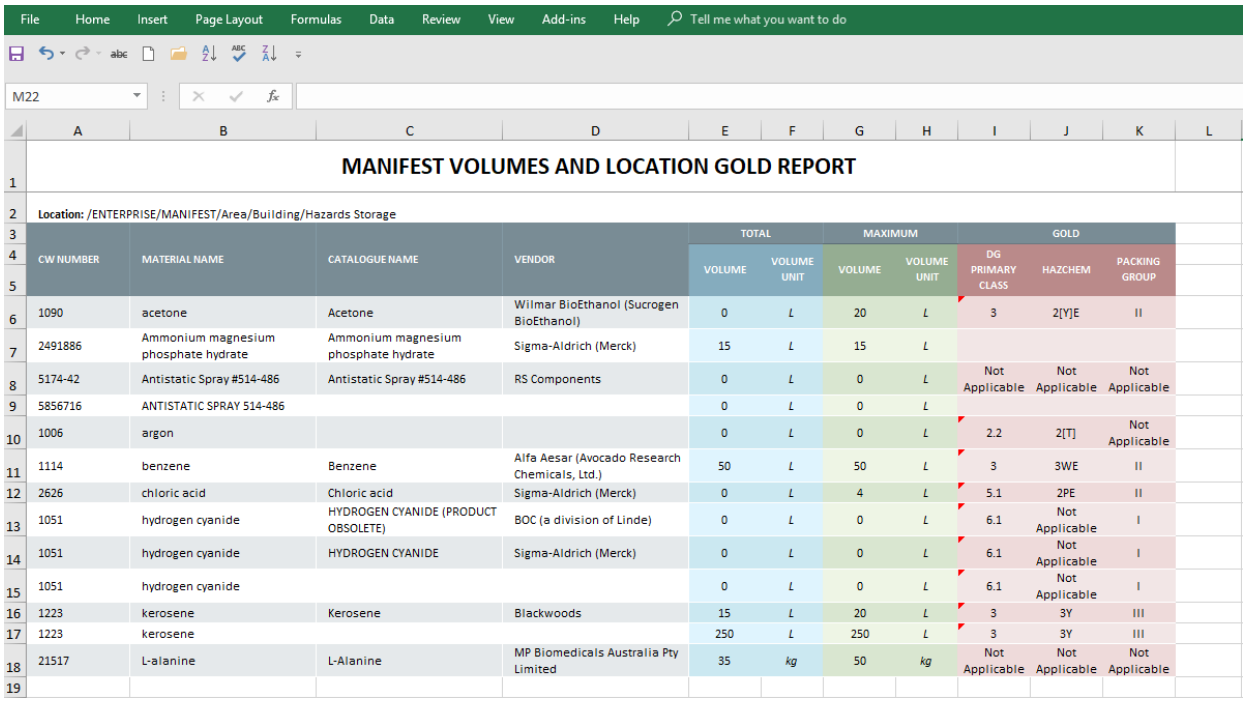
O21

	A	B	C	D	E	F	G	H	I	J	K	L
1	MANIFEST VOLUMES AND LOCATION GOLD REPORT											
2	Location: /ENTERPRISE/MANIFEST/Area/Building/General Storage											
3					TOTAL		MAXIMUM		GOLD			
4	CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	VOLUME	VOLUME UNIT	VOLUME	VOLUME UNIT	DG PRIMARY CLASS	HAZCHEM	PACKING GROUP	
5												
6	1090	acetone	acetone	3M	40	L	100	L	3	2[Y]E	II	
7	1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L	100	L	3	2[Y]E	II	
8	2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	0	L	0	L				
9	5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	50	L	100	L	Not Applicable	Not Applicable	Not Applicable	
10	Location: /ENTERPRISE/MANIFEST/Area/Building/Hazards Storage											
11					TOTAL		MAXIMUM		GOLD			
12	CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	VOLUME	VOLUME UNIT	VOLUME	VOLUME UNIT	DG PRIMARY CLASS	HAZCHEM	PACKING GROUP	
13												
14	1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	2[Y]E	II	
15	5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L	0	L	Not Applicable	Not Applicable	Not Applicable	
16	1006	argon			0	L	0	L	2.2	2[T]	Not Applicable	
17	1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L	50	L	3	3WE	II	
18	2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L	5.1	2PE	II	

Grey-Blue RGB Theme for Manifest volumes a locations GOLD

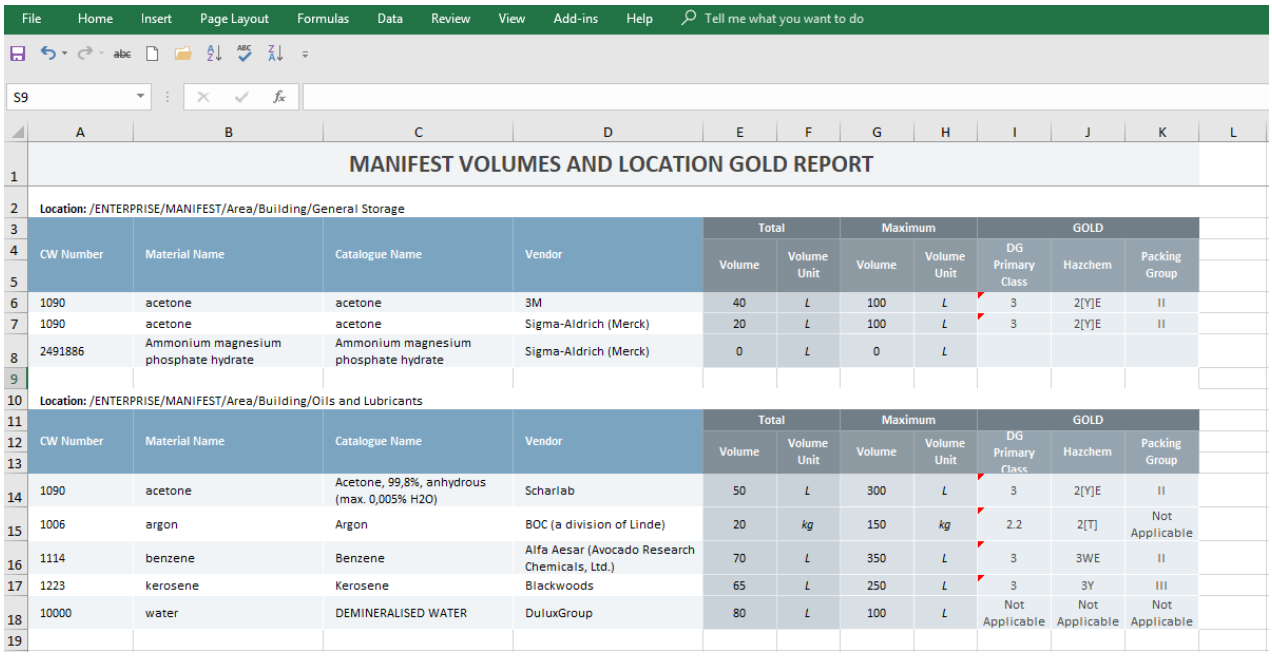


MANIFEST VOLUMES AND LOCATION GOLD REPORT

Location: /ENTERPRISE/MANIFEST/Area/Building/Hazards Storage

CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL		MAXIMUM		GOLD		
				VOLUME	VOLUME UNIT	VOLUME	VOLUME UNIT	DG PRIMARY CLASS	HAZCHEM	PACKING GROUP
1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	2[Y]E	II
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	15	L	15	L			
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	0	L	0	L	Not Applicable	Not Applicable	Not Applicable
5856716	ANTISTATIC SPRAY 514-486			0	L	0	L			
1006	argon			0	L	0	L	2.2	2[T]	Not Applicable
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L	50	L	3	3WE	II
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L	5.1	2PE	II
1051	hydrogen cyanide	HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)	0	L	0	L	6.1	Not Applicable	I
1051	hydrogen cyanide	HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	0	L	0	L	6.1	Not Applicable	I
1051	hydrogen cyanide			0	L	0	L	6.1	Not Applicable	I
1223	kerosene	Kerosene	Blackwoods	15	L	20	L	3	3Y	III
1223	kerosene			250	L	250	L	3	3Y	III
21517	L-alanine	L-Alanine	MP Biomedicals Australia Pty Limited	35	kg	50	kg	Not Applicable	Not Applicable	Not Applicable

Light Grey-Blue Theme for Manifest volumes a locations GOLD



MANIFEST VOLUMES AND LOCATION GOLD REPORT

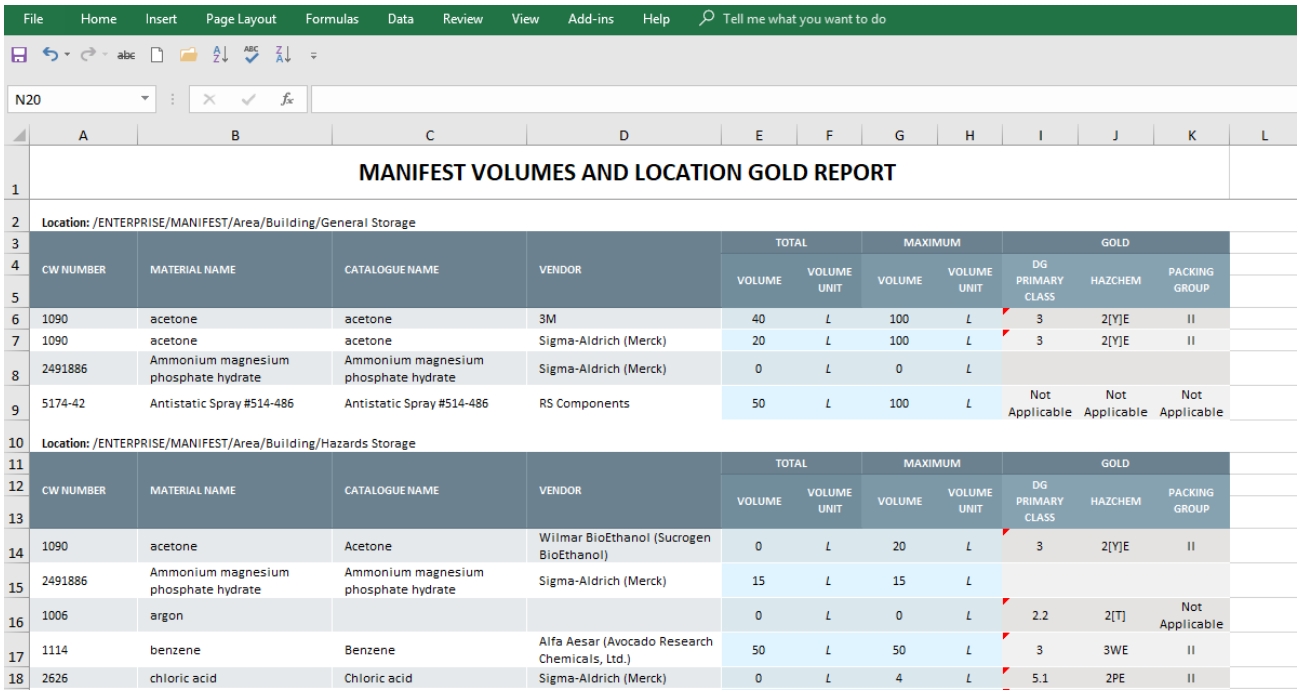
Location: /ENTERPRISE/MANIFEST/Area/Building/General Storage

CW Number	Material Name	Catalogue Name	Vendor	Total		Maximum		GOLD		
				Volume	Volume Unit	Volume	Volume Unit	DG Primary Class	Hazchem	Packing Group
1090	acetone	acetone	3M	40	L	100	L	3	2[Y]E	II
1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L	100	L	3	2[Y]E	II
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	0	L	0	L			

Location: /ENTERPRISE/MANIFEST/Area/Building/Oils and Lubricants

CW Number	Material Name	Catalogue Name	Vendor	Total		Maximum		GOLD		
				Volume	Volume Unit	Volume	Volume Unit	DG Primary Class	Hazchem	Packing Group
1090	acetone	Acetone, 99,8%, anhydrous (max. 0,005% H2O)	Scharlab	50	L	300	L	3	2[Y]E	II
1006	argon	Argon	BOC (a division of Linde)	20	kg	150	kg	2.2	2[T]	Not Applicable
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	70	L	350	L	3	3WE	II
1223	kerosene	Kerosene	Blackwoods	65	L	250	L	3	3Y	III
10000	water	DEMINERALISED WATER	DuluxGroup	80	L	100	L	Not Applicable	Not Applicable	Not Applicable

Grey-Blue Theme for Manifest volumes a locations GOLD



MANIFEST VOLUMES AND LOCATION GOLD REPORT

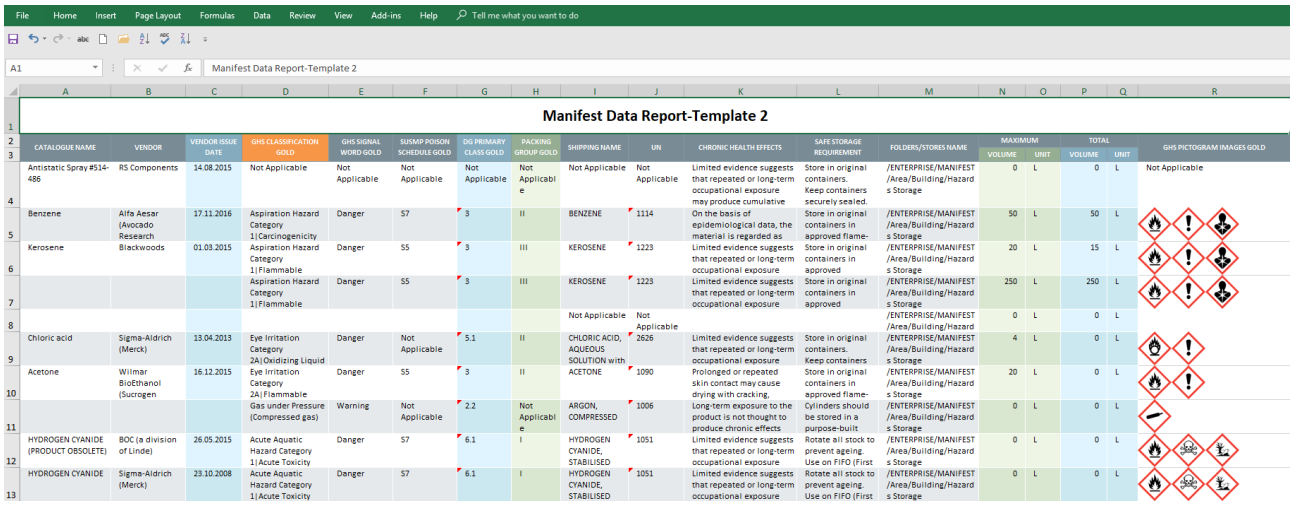
Location: /ENTERPRISE/MANIFEST/Area/Building/General Storage

CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL		MAXIMUM		GOLD		
				VOLUME	VOLUME UNIT	VOLUME	VOLUME UNIT	DG PRIMARY CLASS	HAZCHEM	PACKING GROUP
1090	acetone	acetone	3M	40	L	100	L	3	2[Y]E	II
1090	acetone	acetone	Sigma-Aldrich (Merck)	20	L	100	L	3	2[Y]E	II
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	0	L	0	L			
5174-42	Antistatic Spray #514-486	Antistatic Spray #514-486	RS Components	50	L	100	L	Not Applicable	Not Applicable	Not Applicable

Location: /ENTERPRISE/MANIFEST/Area/Building/Hazards Storage

CW NUMBER	MATERIAL NAME	CATALOGUE NAME	VENDOR	TOTAL		MAXIMUM		GOLD		
				VOLUME	VOLUME UNIT	VOLUME	VOLUME UNIT	DG PRIMARY CLASS	HAZCHEM	PACKING GROUP
1090	acetone	Acetone	Wilmar BioEthanol (Sucrogen BioEthanol)	0	L	20	L	3	2[Y]E	II
2491886	Ammonium magnesium phosphate hydrate	Ammonium magnesium phosphate hydrate	Sigma-Aldrich (Merck)	15	L	15	L			
1006	argon			0	L	0	L	2.2	2[T]	Not Applicable
1114	benzene	Benzene	Alfa Aesar (Avocado Research Chemicals, Ltd.)	50	L	50	L	3	3WE	II
2626	chloric acid	Chloric acid	Sigma-Aldrich (Merck)	0	L	4	L	5.1	2PE	II

Manifest Data Template Style (Edited) Report for Grey-Blue theme



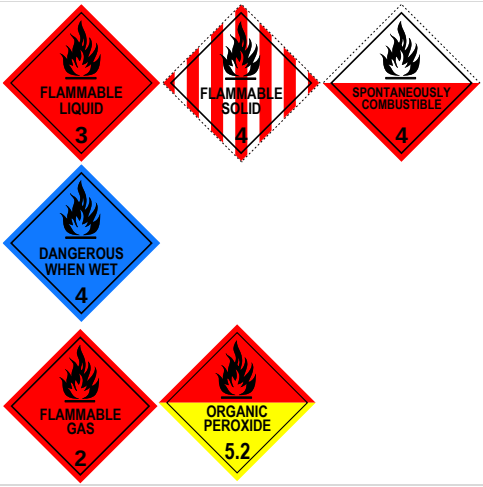
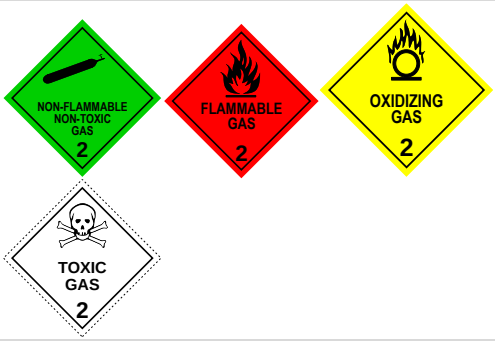
Manifest Data Report-Template 2

CATALOGUE NAME	VENDOR	VENDOR ISSUE DATE	GHS CLASSIFICATION GOLD	GHS SIGNAL WORD GOLD	SUSMP POISON SCHEDULE GOLD	DG PRIMARY CLASS GOLD	PACKING GROUP GOLD	SHIPPING NAME	UN	CHRONIC HEALTH EFFECTS	SAFE STORAGE REQUIREMENT	FOLDERS/STORES NAME	MAXIMUM VOLUME	MAXIMUM UNIT	TOTAL VOLUME	TOTAL UNIT	GHS PICTOGRAM IMAGES GOLD
Antistatic Spray #514-486	RS Components	14.08.2015	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Limited evidence suggests that repeated or long-term occupational exposure may produce cumulative	Store in original containers. Keep containers securely sealed.	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	0	L	0	L	Not Applicable
Benzene	Alfa Aesar (Avocado Research	17.11.2016	Aspiration Hazard Category 1|Carcinogenicity	Danger	S7	3	II	BENZENE	1114	On the basis of epidemiological data, the material is regarded as	Store in original containers in approved flame-	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	50	L	50	L	
Kerosene	Blackwoods	01.03.2015	Aspiration Hazard Category 1|Flammable	Danger	S5	3	III	KEROSENE	1223	Limited evidence suggests that repeated or long-term occupational exposure	Store in original containers in approved	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	20	L	15	L	
			Aspiration Hazard Category 1|Flammable	Danger	S5	3	III	KEROSENE	1223	Limited evidence suggests that repeated or long-term occupational exposure	Store in original containers in approved	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	250	L	250	L	
								Not Applicable	Not Applicable			/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	0	L	0	L	
Chloric acid	Sigma-Aldrich (Merck)	13.04.2013	Eye Irritation Category 2A|Oxidizing Liquid	Danger	Not Applicable	5.1	II	CHLORIC ACID, AQUEOUS SOLUTION with	2626	Limited evidence suggests that repeated or long-term occupational exposure	Store in original containers. Keep containers	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	4	L	0	L	
Acetone	Wilmar BioEthanol (Sucrogen	16.12.2015	Eye Irritation Category 2A|Flammable	Danger	S5	3	II	ACETONE	1090	Prolonged or repeated skin contact may cause drying with cracking,	Store in original containers in approved flame-	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	20	L	0	L	
			Gas under Pressure (Compressed gas)	Warning	Not Applicable	2.2	Not Applicable	ARGON, COMPRESSED	1006	Long-term exposure to the product is not thought to produce chronic effects	Cylinders should be stored in a purpose-built	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	0	L	0	L	
HYDROGEN CYANIDE (PRODUCT OBSOLETE)	BOC (a division of Linde)	26.05.2015	Acute Aquatic Hazard Category 1|Acute Toxicity	Danger	S7	6.1	I	HYDROGEN CYANIDE, STABILISED	1051	Limited evidence suggests that repeated or long-term occupational exposure	Rotate all stock to prevent ageing. Use on FIFO (First	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	0	L	0	L	
HYDROGEN CYANIDE	Sigma-Aldrich (Merck)	23.10.2008	Acute Aquatic Hazard Category 1|Acute Toxicity	Danger	S7	6.1	I	HYDROGEN CYANIDE, STABILISED	1051	Limited evidence suggests that repeated or long-term occupational exposure	Rotate all stock to prevent ageing. Use on FIFO (First	/ENTERPRISE/MANIFEST/Area/Building/Hazards Storage	0	L	0	L	

GHS Pictogram and DG Diamonds

The nine hazard pictograms represent physical, health and/or environmental hazards. Chronic health hazards include carcinogens, reproductive toxins, mutagens, specific target organ toxicants, and aspiration toxicants. Below is a comparison table between the WHS hazard pictograms and the ADG diamonds.

Hazard pictograms and ADG

Hazard Pictograms	GHS Hazard	Dangerous Goods class labels (pictograms)	Dangerous goods classes
 Exploding bomb	Explosives Self-reactive Organic peroxides		Explosive
 Flame	Flammables Self-reactives Pyrophorics Self-heating Emits flammable gas in contact with water Organic peroxides		Flammability (Liquid, Solid or Gas) Pyrophoric, Emits Flammable Gas Organic Peroxide
 Flame over circle	Oxidisers		Oxidiser Oxidising gas
 Gas Cylinder	Gases under pressure		Non-toxic non-flammable gas, flammable gas, oxidising gas, toxic gas

 Skull and crossbones	Acute toxicity		Acute toxicity Acute Toxic gas
 Exclamation mark	Acute toxicity Skin irritants Eye irritants Skin sensitisers	No equivalent	
 Health hazard	Carcinogens Respiratory sensitisers Reproductive toxicants Target organ toxicants Germ cell mutagens	No equivalent	
 Corrosion	Eye corrosion Skin corrosion Corrosive to metal		Corrosive to metals
 Environment	Aquatic toxicity. Not covered within the scope of workplace hazardous chemicals requirements		Environmental hazard
No equivalent hazard pictogram			Miscellaneous dangerous goods
Not covered within the scope of workplace hazardous chemicals requirements			Infectious

Not covered within the scope of workplace hazardous chemicals requirements		Radioactive

Manifest Hazards Filters and Descriptions

The system's manifest hazards filter defaults to "No Hazards Filter", which means that the manifest list is displayed as per the available hazard classification of the materials based on the availability of Chemwatch Gold SDS and/or Vendor Gold Data extracted for those respective products.

Background Information about the Manifest and Classification Data

The manifest module in the system automatically calculates the risk codes and hazard codes classification. The risk or hazard column displays the respective risk/hazard statements using classification codes. The Manifest Hazards Filters enable users to filter materials located in folders to find any chemicals that fall under the selected filter. The following table provides summary descriptions of the available filters from the system's Manifest Hazards Filter menu shown below.

Hazards Filter Descriptions

Main Filter	Description
No Hazards Filter	Default is set to "No Hazards Filter"
Hazards-All filters all classified hazardous chemicals. Note that materials that do not have a Gold SDS will not be filtered out unless data extraction is conducted for that specific material.	
Carcinogens	Filter for any chemical that is classified as a hazardous chemical that can cause cancer due to ability to damage the genome or disruption of cellular metabolic processes.
Mutagens	Filter for any chemical agent that changes the genetic material of an organism and increases the frequency of mutations above natural level.
Sensitisers	Filter for any chemical that causes allergic reaction in normal tissue after exposure.
Corrosives	Filter for any chemical that will destroy and damage living tissue and other substances during contact. Corrosive substances cause chemical burns on contact.
Peroxide Formers	Filter for materials that are susceptible to peroxide formation, which are ones that typically react with air, moisture or impurities and produce a change in their chemical composition in normal storage.
	Certain organic solvents are susceptible to peroxide formation and can form potentially explosive peroxides over time. Peroxide forming chemicals are divided into three classes:
	Class A: Chemicals that form explosive levels of peroxides without concentration. These are the most hazardous and can form explosive peroxide levels even if not opened.
	Class B: Chemicals that form explosive levels of peroxides when concentrated through distillation, evaporation or exposure to air after opening.
	Class C: Chemicals which are a hazard due to peroxide initiation of polymerization.
Reprotoxins	Filter for any hazardous substance associated with interference of the sexual reproductive system, fertility in adults and offspring.
Embryotoxins	Filter for any toxic chemical with adverse effects on the embryo.
	When this substance enters the maternal system and crosses the placental barrier; the effects of the substance may be expressed as embryonic death or abnormal development of one or more body systems and can be deleterious to maternal health.
Neurotoxins	Filter for any class of exogenous chemical neurological insult (cause of physical or mental injury) which can adversely affect bodily function and the nervous tissue.
Cardiotoxins	Filter for any chemical that may induce cardiac failure.
	Cardiotoxicity is the occurrence of heart electrophysiology or muscle damage. When the heart is affected by cardiotoxins, it becomes weaker and inefficient in pumping blood and hence affects blood circulation such as heavy metals or incorrectly administered drugs.
Liver Toxins	Filter for any chemical that may cause injury to the liver, which may manifest as abnormal liver enzyme or be the cause of liver failure.
Kidney Toxins	Filter for any chemical that bare poisonous toxic effect on kidneys (also known as nephrotoxicity). This sort of chemicals may include specific drugs used for medication purposes
Cytotoxins	Filter for any chemical that has the quality of being toxic to cells. Cytotoxins are chemical weapons that Killer T-cells use to destroy infected cells. For example, cytotoxic drugs are hazardous substances (refer to COSHH Regulations) and widely used in healthcare settings. Cytotoxic drugs also known as antineoplastics, describe a group of medicines that contain chemicals which are toxic to cells, preventing their replication or growth and are used in cancer treatment, rheumatoid arthritis and multiple sclerosis. Certain activities may result

Main Filter	Description
	in exposure through skin contact/absorption, inhalation of aerosols, ingestion, etc. Pregnant workers are at risk as some drugs may be harmful to the unborn child. Some examples of Hazardous cytotoxic antineoplastics are; azacitidine, azathioprine, bendamustine, lomustine, ifosfamide, bleomycin.
Hazard-Health	Filter by any chemical that is classified as a health hazard.
	These types of chemicals will affect human health such as carcinogens, etc.
Hazard-Environment	Filter by any chemical that is classified as an environmental hazard.
	These types of chemicals will affect the environment
Hazard-Physical	Filter by any chemical that is classified as a physical hazard.
	These types of chemicals are considered to flammable to some degree, etc.
Dangerous Goods-All	Filter by any chemical that is classified as a dangerous good.
	Dangerous goods are substances, mixtures or articles that, because of their physical, chemical (physico-chemical) or acute toxicity properties, present an immediate hazard/danger to people, property or the environment.
Dangerous Goods Specific	
Corrosives	**Filter for a chemical that is classified to destroy or damage living tissue by direct contact. Some acids, bases, dehydrating agents, oxidizing agents, and organics are corrosives.**
	Concentrated acids can cause painful burns that are often superficial. Inorganic hydroxides, however, can cause serious damage to skin tissues because a protective protein layer does not form. Even a dilute solution such as sodium or potassium hydroxide can saponify fat and attack skin. At first, skin contact with phenol may not be painful, but the exposed area may turn white due to the severe burn. Systemic poisoning may also result from dermal exposure
Explosive Flammables	**Filter for a hazard chemical, dangerous good classified as explosive flammable.**
	These are hazardous chemicals that may cause an explosion by heating, severe projection, explosion, a blast or fire or may mass explode in fire. Explosive substances can form an explosive atmosphere of gas, vapour or dust. This class also includes substances and articles produced for an explosive or pyrotechnic effect. Flammable chemicals are classified according to flashpoint, boiling point, ignition temperature. Flashpoint (FP) is the lowest temperature at which a flammable liquid gives off sufficient vapour to ignite. Boiling point (BP) is the temperature at which the vapour pressure of a liquid is equal to the atmospheric pressure under which the liquid vaporizes. Flammable liquids with low BP's generally present special fire hazards. The FP's and BP's of certain chemicals are closely linked to their ignition temperature — the lowest temperature at which a chemical will ignite and burn independently of its heat source.
Miscellaneous	Filter for substances and articles that present a danger especially during transport, not covered by other dangerous goods classes other than DG Class9.
Oxidisers	**Filter for dangerous materials which act as an oxidizing agent.**
	A substance that is not necessarily combustible, but may, generally by yielding oxygen, cause or contribute to the combustion of other material. By this definition some materials that are classified as oxidising agents by analytical chemists but are not classified as oxidising agents in a dangerous materials sense.
Toxic/Harmful	**Filter for dangerous materials that are classified as toxic/harmful.**

Main Filter	Description
	Toxic materials have a specific degree of damage and have adverse effects on a substructure of an organism exposed to these types of substances. Chemical toxicants include inorganic substances such as lead, mercury, hydrofluoric acid, and chlorine gas, and organic compounds such as methyl alcohol, most medications, and poisons from living things. Radioactive chemicals are not poisonous because of their chemical nature, but because radiations emitted by nuclei are highly energetic, and destroy cells and tissues, but radioactive toxicity should not be comprehended in chemical toxicity.
Radioactive	Filter for any substance classified as a radioactive, e.g. plutonium, uranium. These types of substances emit radiation upon decay. Radioactive decay random at single atom levels and difficult to predict when an atom will decay even though the decay rate or activity is characterized by constant quantities; its half-life, decay constant, mean time. The genetic and biological effects of radiation include cancer.
Water-Reactive	Filter for any chemical that undergoes spontaneous reaction when in contact with water molecules, notably alkali metals from sodium through cesium. Some water reactive substances are also considered to be pyrophoric (substances that ignite in contact with air at or below 54.55°C (130.19° C). Alkali metals are usually stored in containers with oil to protect the metal as a barrier to prevent a reaction between water and these metals.
None-Hazardous	Filter for any substance classified as non-hazardous.
None -Dangerous	Filter for any substance classified as non-dangerous.
Reducing Agents	Filter for any substance or compound that is a reducer or reductant. A reducer is an electron donor and notably, strong reducing agents easily lose or donate electrons in redox reactions (reduction-oxidation); and are subsequently oxidized. Examples of reducing agents include the earth metals, formic acid, and sulfite compounds.
Chemicals of concern-DHS	Filter for chemicals of concern based on the United States Department of Homeland Security list of chemicals covered under the EPA program, Chemicals Weapons Convention, hazardous materials such as gases poisonous by inhalation and explosives regulated by Department of Transport.
Chemicals of concern-LoC	Filter for chemicals of concern by Level of Concern (Loc), which is based on a threshold value of a hazard (toxicity, flammability, thermal radiation or over exposure) – US Department of Commerce: Office of Response and Restoration
Health Surveillance Filter	Filter for chemicals requiring health surveillance as part of an integrated approach to the control of hazardous substances, where; exposure poses significant risk to health.
Biological Monitoring	Filter for chemicals requiring biological exposure monitoring. Biological exposure monitoring is the measuring and evaluation of the chemical or its metabolites in body tissues, body fluids (urine, blood) or exhaled breath.

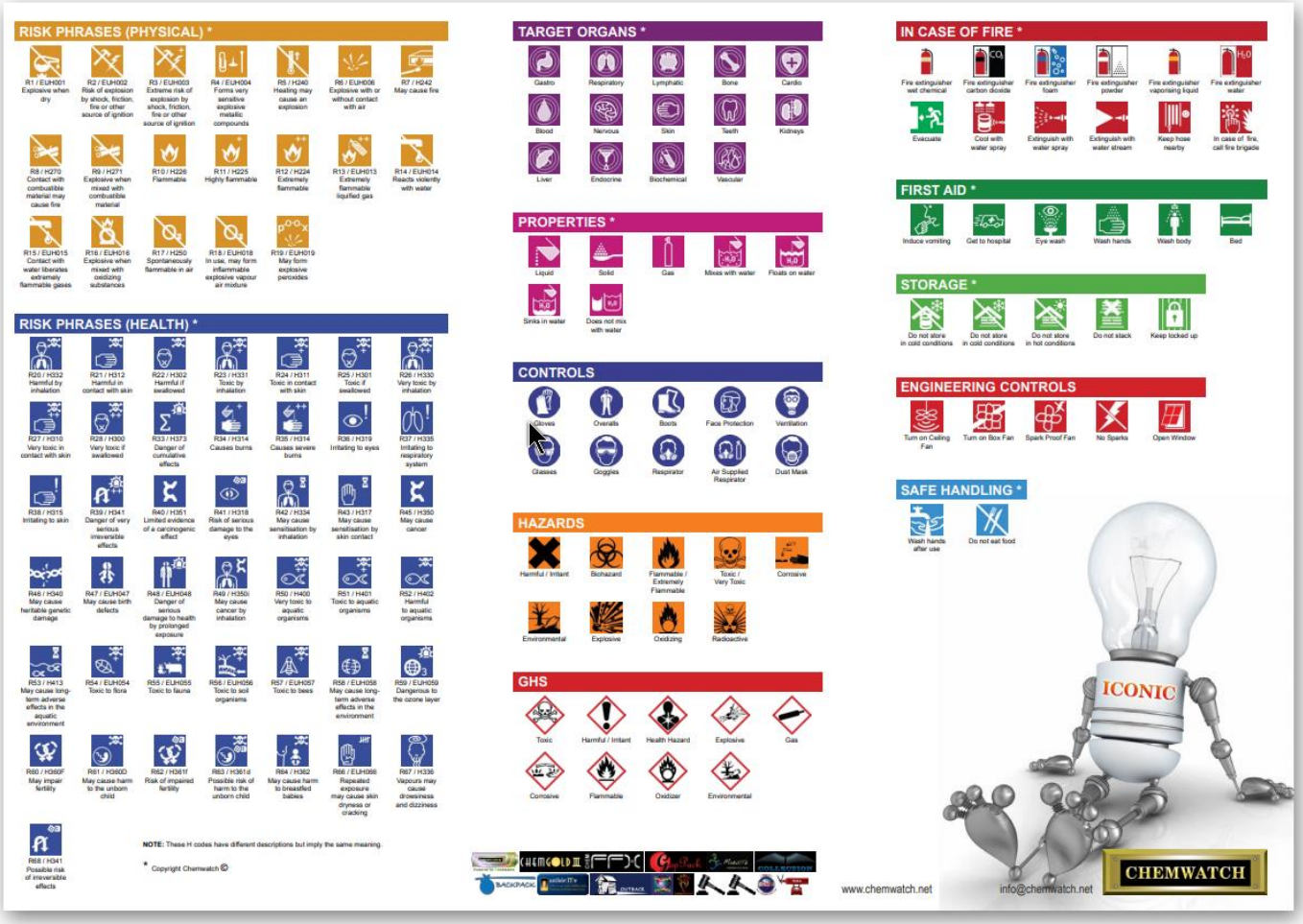
Main Filter	Description
SARA (Superfund Amendments and Reauthorization Act of 1986).	Filter a list of all chemicals and hazardous substances (United States SARA Reporting) required according to the threshold quantities, including: Common name, Chemical Abstract Services (CAS) number, Physical state, Physical and/or Health Hazards – these are divided into five categories. Physical hazards are Fire, Sudden Release of Pressure and Reactivity. Health hazards are Immediate (Acute) or Delayed (Chronic). This act amended the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), commonly known as Superfund. Inventory Information – this includes the maximum daily amount, the average daily amount and the number of days on site. Storage Information – this includes container type, pressure, temperature, specific information on storage amounts and locations. Certification – The owner or operator or the officially designed representative of the owner or operator must certify that all information included in the Tier II submission is true, accurate and complete. See more at: emergency Planning and Community Right to Know Act
	http://www2.epa.gov/epcra-tier-i-and-tier-ii-reporting
	US Environmental Protection Agency Tier Reporting by State
	http://www2.epa.gov/epcra/state-tier-ii-reporting-requirements-and-procedures
Phase-out	**Filter for any "Phase-out" materials.**
	These materials are products that contain ingredients in the manifest that have been marked as phase out. The phase-out menu option is available in "Own" inventory and its subject to pure substances that are marked in the Chemwatch database with respect to Annex XIV substances and those that are manually marked by user through the mouse click context menu. Annex XIV substances are those substances that are marked by default as they appear in the List of Substances subject to Authorization in accordance with the European Regulation (EC) No 1907/2006.
COMAH	**Filter for products that are listed in the COMAH database.**
	COMAH products are those substances that contain at least one ingredient from the "UK The Control of Major Accident Hazards Regulations (COMAH) - Dangerous Substances and Threshold Quantities") with respect to the calculation of ingredient amount in mixture/product.
VOC	(The Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management was enacted in 1999 for the purposes of promoting an improvement of voluntary management of chemical substances by business operators and preventing any impediment to the preservation of the environment).
	Filter for ingredients that are classed as "Volatile Organic Compounds". Notably. VOC products are derived from boing point threshold and if there's no boiling point or a range. Consideration is prioritized to lowest value in the boiling point range if product has a boiling point.
Japan PRTR Law	Filter for substances classified as Class 1 or Class 2 based on the disclosure percentage (%) of ingredients within a mixture as per the Japan PRTR requirements. If there are products in the Manifest that do not have volumes assigned to them, then the system will provide the relevant message.
	Class I Substances

Main Filter	Description
	Designated Chemical Substances are chemical substances that may harm human health, may pose a risk of interfering with the inhabitation and/or growth of flora and fauna, and may deplete the ozone layer, and that are considered to be persistent over a substantially extensive area in the environment considered from the physical and chemical properties, the amount manufactured, imported, and used. Substances are designated in Article 1 of the Order for Enforcement of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof, based on Paragraph (2) of Article 2 of the same Act.
	Class II Substances
	Designated Chemical Substances are chemical substances that may have the same requirements as the Class I Designated Chemical Substances considering the increases in amounts manufactured, imported, or used. Substances are designated in Article 2 of the Order for Enforcement of the Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof, based on Paragraph (3) of Article 2 of the same Act.
Health Surveillance Report	Report for Filter for chemicals requiring health surveillance as part of an integrated approach to the control of hazardous substances where exposure poses significant risk to health.
Incompatibility Report	Filter by this type of report to compare compatibility of dangerous goods in an Area\Section\Location. The report provides DG classes' compatibility or segregation required as per the materials in a location in your Manifest. **Notes for consideration** In most cases materials of the same class will be compatible. However, not all materials with different UN Numbers will always be compatible. The SDS should be checked. In many cases the goods will be compatible. Must check for subsidiary risk compatibility and the SDS. If one of the goods present is also a fire risk substance (one of class 2.1, 3, 4, 5, a combustible liquid or has a subsidiary risk of one of these) or elevated temperature goods, segregation is required by at least 3 m or more. Sub-risk MUST be considered. Other exceptions apply. Check the SDS. Not all class 5.1 goods are compatible as follows: Ammonium nitrate is not compatible with tetranitromethane, dichloroisocyanuric acid, any bromate, chlorate, chlorite, hypochlorite, or chloroisocyanurate, or any inorganic nitrate. Calcium hypochlorite (and its mixtures) is incompatible with dichloroisocyanuric acid, ammonium nitrate, or any chloroisocyanurate. Organic peroxides are highly reactive materials. Please check the SDS to ensure compatibility. Where one of the goods to be stored together is a concentrated strong acid and the other a concentrated strong alkali, they should be deemed incompatible. Class 4.3 goods must not be stored next to goods that are in a solution containing water, or where water or foam is the chosen firefighting/spill/leak dispersal or suppression media for the storage area. Note: Except where the class 6.1 is cyanide and the class 8 an acid. Check the SDS

Main Filter	Description
REACH Uses (Registration, Evaluation, Authorisation and Restriction of Chemicals in the European Union)	**Filter by REACH Uses.** REACH is the regulation of the European Union, which was adopted to improve the protection of human health and the environment from potential risks by the chemical. REACH applies to all chemical substances used in industry and daily activities, chemicals such as cleaning products, paints, articles – clothes, furniture, electrical appliances and many more. For more background information understanding REACH, visit the page by clicking here. The Manifest module, when in folder view mode, contains a "No Hazard Filter" button in the Manifest Toolbar, which by default shows button - No Hazard Filter. REACH will also force the use of substances to be phased out, especially toxic substances in products other than those ingested.
Major Hazard Facility	Filter by Major Hazard Facility rules for materials stored in large quantities, which are vital for Australian regulators when checking for compliance requirements, especially in prevention of major accidents and near misses, minimize the hazardous effects to the PCBU, people and the surrounding environment.
Pending Data Extraction	**Filter by for materials that have pending data extraction.** These are materials that are not designated with a VGD (Vendor Gold Data) icon in the materials list and have not yet been full extracted for classification data.
Tags	**Filter by Tags** Tags filter is solely depended on already created tags and mapped against a criterion to tag materials based on user requirements.
Manifest Quantity Report	The Chemwatch Manifest Quantity Report will simplify the process of monitoring your inventory and enhance the notification process for our Australian clients while maintaining compliance with the requirements of Schedule 12 by taking into consideration the quantities of hazardous chemicals and their notification thresholds specified in Schedule 11 of the WHS Regulations.
International Fire Code	International Fire Code (IFC) Chemwatch has developed an "**International Fire Code Filter Functionality**" for storage indoor inventory; which can filter chemicals for **Health Hazard Indoor** and **Physical Hazard Indoor.** Materials in the Chemwatch Database are classified and grouped by hazard classes (where applicable) and physical states. The IFC grid (table) will display one row per hazard class and each hazard class contains a sub-grid with respective list of volume/weight data per material (chemical or substance) located in that particular IFC folder or location within the manifest folder tree structure based on the site map. It is also imperative to note that depending on your jurisdiction, federal or local regulations may also apply.
National Fire Emergency	National Fire Emergency (NFPA) This filter functionality has been developed using the 2018 version of the NFPA 1 Code, which contains the summary requirements from 45 other NFPA codes. Permits Amounts, Hazardous Material Classification and Maximum Allowable Quantities (MAQ) and Specific Occupancy restraint are embedded in the filter. It will help your organisation meet the requirements: • Hazardous materials classification for **Physical** and **Health** hazards • Identification of not permitted Hazard Materials for each specific occupancy • Detailed inventory of the physical and health classes per location • Hazardous materials storage limits not exceeding the Maximum Allowable Quantities (MAQ)

Main Filter	Description
Pending Data Extraction	This filter enables users to filter all the materials in the Manifest folder/location that do not have Chemwatch Classification or user defined classification (DET). These are the materials that have a question mark icon ? in the hazard column.
Placarding Report	This filter provides a report on all the hazardous chemicals that meet the Placarding Quantity Threshold (WHS, Australia).
Manifest Quantity Report	This filter provides a report on all the hazardous chemicals that meet the Manifest Quantity Threshold (WHS, Australia).
DG Summary Report	This filter provides a summary report (graphical) on all the hazardous chemicals that meet the criteria for Unregulated Quantity, Placarding Quantity and Manifest Quantity Thresholds (WHS, Australia) based on current and maximum volume/weight.

A Guide to Classification (Wall Chart Graphics)



Risk Assessment Report Components

Risk Assessment Report Data

Title	Description
Header	Displays the type of risk assessment report; Health or Dangerous Goods
Chemical Name	Shows the chemical name or product name
Risk Band	Displays the risk conclusion of the assessment; 0-4+
Physical Properties	Physical Sate of the chemical
Ingredient(s)	Ingredients composition, OEL
Chemwatch Hazard Ratings	Flammability, toxicity, body contact, reactivity, chronic ratings (low, medium, high, extreme)
Personal Protective Equipment	Shows the selected PPE graphics
Emergency	Displays the emergency graphics
Hazard Statement(s)	List the hazard statements as per the classification of the chemical
Health Hazards	Shows the health hazards graphics and first aid graphics

Title	Description
Person Potentially at Risk	Displays the statement for special monitoring required or specialist advice
GHS Graphics	Shows the GHS graphics as per he classification of the chemical
Risk Assessment Parameters	Displays the risk assessment parameters; operating temperature, volatility, scale of use, frequency of use
Approvals Job Fields	Fields will contain information on job name, signatures (assessor and approver), number of persons exposed, operating procedure statement/summary or link, job code
Assessment Date	The date (dd/mm/yyyy) on which the risk assessment was completed
Re-Assessment Date	The date (dd/mm/yyyy) on which the risk assessment is due for reassessment/review

Query Builder Search Options

The table below provides summary descriptions of the search options for creating a query using the query builder mode.

Search Option	Description	Use (Search by)
Cat or Material Name	Name of Material or Catalog Name	Create a query by using the Name of the Material or Catalog Name.
Vendor	Search for material using Vendor	Create a query by using the Vendor name to look for materials or products produced by that particular vendor name (Manufacturer, Supplier).
CW No	Chemwatch Number	Chemwatch numbers are assigned to all materials registered in the Chemwatch database for both pure and non-pure substances. Create a query to look up for materials by a specific CW No.
CAS No	Chemical Abstract Substance Number	Create a query by using the CAS No to look up for specific materials associated with that a particular CAS No. The CAs No is a unique numeric identifier in the CAS REGISTRY designated to a known substance. Click the link below for reference. http://www.cas.org/content/chemical-substances/faqs

Search Option	Description	Use (Search by)
DG Class	Dangerous Goods Class	Create a query by using the DG Class to look up for materials that are classified as dangerous goods for the particular DG Class of interest. DG Classes 1 to 9 are listed to choose the primary class field. Refer for more in the link. http://www.unece.org/trans/danger/danger.html
Packing Group field (PKG)	Packing Group as per DG classification	Create a query by using the Packing Group option to look up for dangerous goods associated with that particular packing group (level of danger). The table below shows a list of packing group by level of danger for reference. I Greater danger II Medium danger III Minor danger Find more about dangerous goods from UNECE here.
R-Code	Risk Code	Create a query by using the R-Code from the system of hazard classification codes. Risk code is a hazard classification used to classify a substance (old system of classification). Click the Chemwatch link "download classification guide". *For EU, more regulatory related information can be found here.*
H-Code	Hazard Code (GHS)	Create a query by using the H-Code from the system of hazard classification codes based on GHS. *For EU, more regulatory related information can be found here.* *For Australia, more information can be found here.* *For USA, more information can be found here.*
Sub Risk	Sub Risk	Create a query by dangerous good Sub Risk as per the DG classification (Transport).
UN No	United Nations Number	Create a query by using a UN No. A UN No is a four digit identity number that identifies a hazardous substance in the international transport framework. https://www.unece.org/trans/danger/publi/unrec/rev19/19files_e.html
EINECS	EINECS number used in European countries	European Inventory of Existing Commercial Chemical Substances. These are substances considered phase-in substances under the REACH Regulation. Create a query by using the EINECS number option.
User Part No,	User dependent Part Number,	Create a query to search by User Part number assigned to a product by a user.

Search Option	Description	Use (Search by)
Vendor Part No	Vendor Part Number	Create a query to search by Vendor Part number assigned to a product.
Poison Schedule	Classification of Medicines and Poisons in Australia	Poison schedule number between 1 and 10 to find available materials scheduled as medicines and poisons in the database. Create a query by using a Poison Schedule number to look up for materials classified by SUSMP.
Form Builder	Form created through the Form Builder method	Create a query based on a FORM created using the Form Builder module. Choose the form name from an existing list of forms and assign the applicable form data point to look for materials associated with the form fields. Refer to section 12 of this guide on how to create a form.
My Reach Uses	REACH Regulations Use Descriptions	Create a query based on My REACH Use description to look up for associated materials. Download the reference guide here on REACH Use Descriptors.
Vendor Reach Uses Codes	REACH Regulations Use Descriptions	Create a query based on a Vendor (Manufacturer) REACH Use description to look up for associated materials. Download the reference guide here on REACH Use Descriptors.
My Reach Uses Advised Against	REACH Regulations Use Descriptions	Create a query based on My REACH Use Advised Against to look up for associated materials. Download the reference guide here on REACH Use Descriptors.
Vendor Reach Uses Advised Against	REACH Regulations Use Descriptions	Create a query based on a Vendor (Manufacturer) REACH Use Advised Against to look up for associated materials. Download the reference guide here on REACH Use Descriptors.
Regulatory List	List of National or International Regulations for Chemicals	Create a query based on a specific Regulatory List to identify chemical or substances that fall under that specific regulatory list.
Chemical Family	Chemical family general names based on grouping similar chemical properties	Create a query to look up for materials that are categorized in the same chemical family based on chemical properties. Refer to the IUPAC chart in the appendix for the names of element families per group. In order to assign the name of the chemical family, simply type the chemical name in the text field and the system will display a drop-down list of associated chemical names through a word wheel.
Sunset Date	Feature to mark Phase Out Substances	Create a query to assign sunset date to mark Phase Out Substances as described in the REACH Authorization process.

Search Option	Description	Use (Search by)
eSDS	Chemwatch Extended SDS	Create a query to identify materials that have a Chemwatch Extended SDS (eSDS). These types of SDS communicate to the downstream users about the REACH Exposure Scenarios (ES) or condition of safe use in the supply chain and substances that are hazardous and manufactured/imported.

NFPA Diamonds

NFPA Diamonds and Colour Coding 

The four divisions are typically color-coded, with blue indicating level of health hazard, red indicating, flammability, yellow (chemical) reactivity, and white containing special codes for unique hazards. Each of health, flammability and reactivity is rated on a scale from 0 (no hazard) to 4 (severe risk). For more information, visit http://www.nfpa.org/.

Section 2 of Gold SDS will depict the applicable NFPA diamond where applicable. Note that, the SDS Settings panel will have to be checked/marked for this diamond or graphic to show in the SDS.

Health (Blue)		Flammability (Red)	
0	Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials (e.g., water)	0	Materials that will not burn under typical fire conditions (e.g., carbon dioxide), including intrinsically noncombustible materials such as concrete, stone and sand. (Materials that will not burn in air when exposed to a temperature of 816°C (1500°F) for a period of 5 minutes.)
1	Exposure would cause irritation with only minor residual injury (e.g., acetone)	1	Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur (e.g., mineral oil). Includes some finely divided suspended solids that do not require heating before ignition can occur. (Flash point at or above 93.4°C (200°F)
2	Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g., diethyl ether)	2	Must be moderately heated or exposed to relatively high ambient temperature before ignition can occur (e.g., diesel fuel) and some finely divided suspended solids that do not require heating before ignition can occur. Flash point between 38°C (100°F) and 93°C (200°F)

3	Short exposure could cause serious temporary or moderate residual injury (e.g., chlorine)	3	Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions (e.g., gasoline). Liquids having a flash point below 23°C (73°F) and having a boiling point at or above 38°C (100°F) or having a flash point between 23°C (73°F) and 38°C (100°F)
4	Very short exposure could cause death or major residual injury (e.g., hydrogen cyanide, phosphine, carbon monoxide, sarin)	4	Will rapidly or completely vaporize at normal atmospheric pressure and temperature, or is readily dispersed in air and will burn readily (e.g., acetylene, diethylzinc). Includes pyrophoric substances. Flash point below 23°C (73°F)
Special (White)		**Instability/Reactivity (Yellow)**	
The white "special notice" area can contain several symbols. The following symbols are defined by the NFPA 704 standard.		0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium)
OX	Oxidizer (e.g., potassium perchlorate, ammonium nitrate, hydrogen peroxide)	1	Normally stable, but can become unstable at elevated temperatures and pressures (e.g. propene)
W	Reacts with water in an unusual or dangerous manner (e.g., cesium, sodium, sulfuric acid)	2	Undergoes violent chemical change at elevated temperatures and pressures, reacts violently with water, or may form explosive mixtures with water (e.g., white phosphorus, potassium, sodium)
SA	Simple asphyxiant gas. Specifically limited to the following gases: nitrogen, helium,neon, argon, krypton and xenon.[2]	3	Capable of detonation or explosive decomposition but requires a strong initiating source, must be heated under confinement before initiation, reacts explosively with water, or will detonate if severely shocked (e.g. ammonium nitrate, chlorine trifluoride)
		4	Readily capable of detonation or explosive decomposition at normal temperatures and pressures (e.g., nitroglycerin, chlorine azide, chlorine dioxide)

IUPAC Chart for the Names of Element Families

In chemistry, a family is a group of elements with similar chemical properties. Chemical families are commonly associated with the columns on the period table. For more detailed information, click here to download the pdf . The chart below shows the IUPAC number of element group chemical family name and trivial name.

IUPAC Group	1	2	3	4	5	6	7	8	9	10	11	12	13
Family	lithium	beryllium	scandium	titanium	vanadium	chromium	manganese	iron	cobalt	nickel	copper	zinc	boron
Trivial Name	alkali metals	alkaline earth metals									coinage metals	volatile metals	icosagens
CAS Group	IA	IIA	IIIB	IVB	VB	VIB	VIIB	VIIIB	VIIIB	VIIIB	IB	IIB	IIIA

14	15	16	17	18
carbon	nitrogen	oxygen	fluorine	helium or neon
crystallogens	pnictogens	chalcogens	halogens	noble gases
IVA	VA	VIA	VIIA	VIIIA

Terms and Abbreviations

Article means a manufactured item, other than a fluid or particle, that is formed into a particular shape or design during manufacture and has hazard properties and a function that are wholly or partly dependent on the shape or design.

Bioaccumulative potential is the potential for a chemical to accumulate in biota and possibly pass through the food chain.

Biological monitoring means the measurement and evaluation of a substance, or its metabolites, in the body tissue, fluids or exhaled air of a person exposed to that substance.

Chemical Identity means a name, in accordance with the nomenclature systems of the International Union of Pure and Applied Chemistry or the Chemical Abstracts Service, or a technical name, that gives a chemical a unique identity.

Class of dangerous goods, means the number assigned to the goods in the ADG Code indicating the hazard, or most predominant hazard, exhibited by the goods.

Combustible liquid means a liquid, other than a flammable liquid, that has a flash point, and a fire point less than its boiling point.

Combustible substance means a substance that is combustible and includes dust, fibres, fumes, mists or vapours produced by the substance.

Container means anything in or by which a hazardous chemical is, or has been, wholly or partly covered, enclosed or packed, including anything necessary for the container to perform its function as a container.

Correct classification means the set of hazard classes and hazard categories assigned to a hazardous chemical when it is correctly classified.

Division of dangerous goods, means a number, in a class of dangerous goods, to which the dangerous goods are assigned in the *ADG Code.*

Exposure standard means an exposure standard published by Safe Work Australia in the Workplace Exposure Standards for Airborne Contaminants.

Note: The Workplace Exposure Standards for Airborne Contaminants will replace the Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOSHC:1003(1995)].

Flammable Liquid means a flammable liquid within the meaning of the GHS that has a flashpoint of less than 93°C.

Flash point means the lowest temperature (corrected to a standard pressure of 101.3 kPa) at which the application of an ignition source causes the vapours of a liquid to ignite under specified test conditions.

Generic Name means a name applied to a group of chemicals having a similar structure and properties.

Genuine research means systematic investigative or experimental activities that are carried out for either acquiring new knowledge (whether or not the knowledge will have a specific practical application) or creating new or improved materials, products, devices, processes or services.

GHS means the 'Globally Harmonized System of Classification and Labelling of Chemicals, 3rd Revised Edition', published by the United Nations.

Hazard means a situation or thing that has the potential to harm people, property or the environment. The GHS covers physicochemical, health and environmental hazards for hazardous chemicals.

Hazard Category means a division of criteria within a hazard class in the GHS.
Hazard class means the nature of a physical, health or environmental hazard under the GHS.

Hazard pictogram means a graphical composition, including a symbol plus other graphical elements, that is assigned in the *GHS* to a hazard class or hazard category.

Hazard Statement means a statement assigned to a hazard class or hazard category describing the nature of the hazards of a hazardous chemical including, if appropriate, the degree of hazard.

Hazchem Code means 'Hazchem Code' under the ADG Code, also known as the Emergency Action Code.

Health Surveillance, of a person, means monitoring the person to identify changes in the person's health status as a result of exposure to a hazardous chemical.

Import means to bring into the jurisdiction from outside Australia.

Label means written, printed or graphical information elements concerning a hazardous chemical that is affixed to, printed on or attached to the container of a hazardous chemical.

Manifest means a written summary of the hazardous chemicals used, handled or stored at a workplace.

Manifest quantity, in relation to a Schedule 11 hazardous chemical, means the manifest quantity referred to in Schedule 11, table 11.1, column 5 for that hazardous chemical.

Manufacture includes the activities of packing, repacking, formulating, blending, mixing, making, remaking and synthesizing of the chemical.

Mixture means a combination of or a solution composed of two or more substances that do not react with each other.

Placard means a sign or notice displayed or intended for display in a prominent place or next to a container or storage area for hazardous chemicals at a workplace and that contains information about the hazardous chemical stored in the container or storage area.

Placarding quantity, in relation to a Schedule 11 hazardous chemical, means the placard quantity referred to in Schedule 11, table 11.1 column 4 for the Schedule 11 hazardous chemical.

Physicochemical means the physical properties of a chemical.

Precautionary Statement means a phrase prescribed by the *GHS* that describes recommended measures to be taken to prevent or minimise the adverse effects of exposure to a hazardous chemical or the improper handling of a hazardous chemical.

Product Identifier means the name or number used to identify a product on a label or in a safety data sheet (SDS). [1]

Proper shipping name means a proper shipping name under the *ADG Code*.

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[1] The term 'product name' has previously been used for 'product identifier'.
[2] UN Numbers are published in the UN Recommendations on the Transport of Dangerous Goods – Model Regulation, and in the ADG Code

Research chemical means a substance or mixture that is manufactured in a laboratory for genuine research and is not for use or supply for a purpose other than analysis or genuine research.

Signal word *means the word 'danger' or 'warning' used on a label to indicate to a label reader the relative severity level of a hazard and to alert the reader to a potential hazard, under GHS.*

Substance means a chemical element or compound in its natural state or obtained or generated by a process:

- including any additive necessary to preserve the stability of the element or compound and any impurities deriving from the process; but
- excluding any solvent that may be separated without affecting the stability of the element, compound, or changing its composition.

Supply includes selling or transferring ownership or responsibility for a chemical.

Technical name means a name that is: ordinarily used in commerce, regulations and codes to identify a substance or mixture, other than an International Union of Pure and Applied Chemistry or Chemical Abstracts Service name and recognised by the scientific community.

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

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