AUTHORITE
USER GUIDE

Version 2

CHEMWATCH

Melbourne, Australia

2025

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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
CREDITE POSTERI	CREDO module/Physical Properties
CW No	Chemwatch Number
DG	Dangerous Goods
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonised System for the Classification of Hazardous Chemicals and Labelling
LOC	List of Concern
NFPA	National Fire Protection, USA
OEL	Occupational Exposure Limit
PPE	Personal Protective Equipment
PKG	Packing Group for Dangerous Goods
PTN	Project Tracking Number
REACH	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals (European Union)
SMARTSUITE	Smart Vendor, Gold, Mini SDS, Emergency Response Mobile App
SR	Subsidiary Risk for Dangerous Goods
SOP	Standard Operating Procedure
SUSMP	Classification of Medicines and Poisons in Australia
TEEL	Temporary Emergency Exposure Limits
TSCA	Toxic Substances Control Act
UGD	User Gold Data
UI	User interface

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UN	United Nations
VGD	Vendor Gold Data

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About the AuthorITe User Guide

The AuthorITe User Guide is based on the new development of Chemwatch's latest chemicals management system. The topics covered in this guide are centered on the various modular features available within the AuthorITe product package.

Modular features, icons and buttons are used across this guide to emphasize a specific activity where stepwise tasks are provided in respective topics as a reference to learn how to use the system.

Modular Features

Credo Form	Materials Grid
Documents	Import History
Archive	Print Out
Hazard Alerts	Regulatory Alerts
Live Help Chat	Forms (Form Builder)
Publish	Edit Function

Information Reference

The information icon provides more information in any topic or section of this guide.

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About the Application

This new Chemwatch system is the latest offer in the chemicals management suite for authoring safety data sheets. It has been designed to enhance the user experience, simpler and more intuitive to navigate, while still allowing businesses and organisations to produce and manage SDS as per work, health, and safety requirements. This SDS production cloud-based software provides a wide scope of chemical regulatory classification tools to produce data including toxic, ecotoxic, environmental and transport related information. Companies are unwilling to entrust third party with access to confidential and sensitive information such as formula or ingredients of manufactured products. This tool enables businesses and organisations create their own SDS for their mixtures without declaration of sensitive information to any third party which in turn provides them with the ability to have full control over own produced SDS data.

Any release related updates to the software are geared towards improvements or enhancements to current features or addition of new components using microservices framework serving the independent deployment of system components and facilitate faster implementation of changes and updated data, which can be made available and accessible regionally, catering to specific jurisdictions for safety and compatibility purposes.

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

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	★★★★☆
Safari	Latest version of Safari is supported	★★★★☆

Contact your **domain administrator** or your **network administrator** for more details with regards to the approved browsers to use in your work environment.

The web application works on both Windows and Mac PCs, but it needs an internet connection, and it is not fully supported on smartphones and tablets.

Smarter Suite Mobile App

Chemwatch offers separate mobile app for iOS and Android as an additional package to the standard app license. Smarter Suite is our new mobile app that enables accessibility from a single location as a “One Stop Shop” for access to extensive health and safety information, including risk assessments, management of chemical inventory using barcoding.

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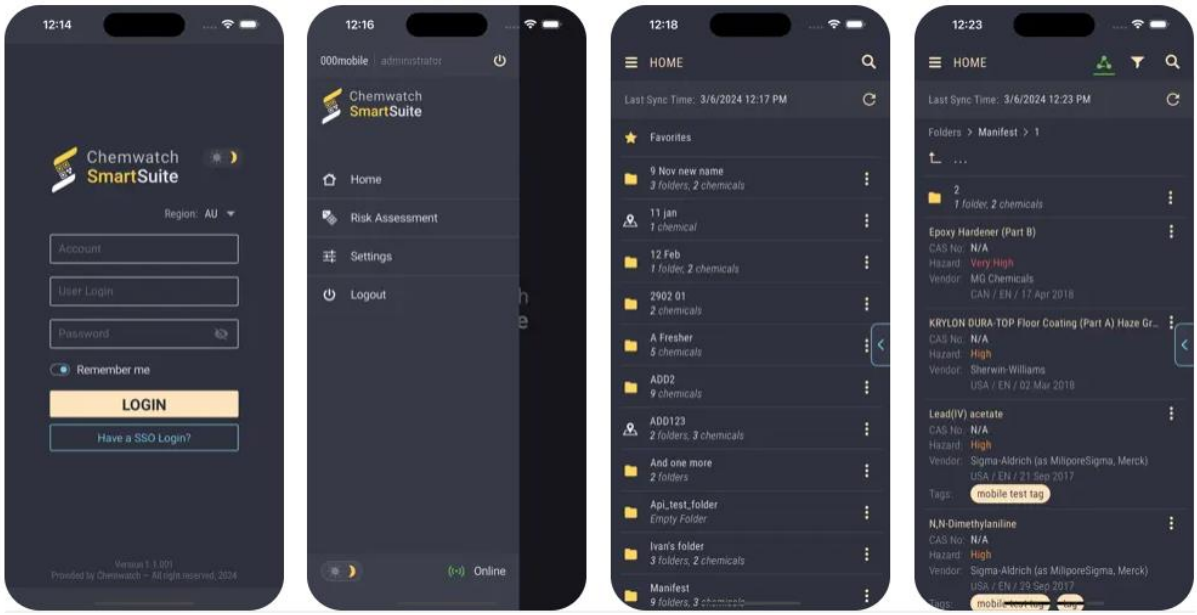
	Mobile App	Features	
	Smarter Suite app Chemicals Management Mode	• Smart Vendor	Vendor SDS
		• Smart Gold	Chemwatch SDS
		• Smart Mini	Hazard Summary SDS
		• Smart ER	Emergency Report
		• Smart Cobra	Risk Assessment
		• Smart Labels	Chemical Labels
	Smarter Suite app Assets Management Mode	• Search & Browse	Look up engine
		• Inventory	Material list
		• Reconciliation	Reconcile and stocktake
		• Settings	Features and mobile settings



For more information about Smart Suite App, visit the Chemwatch website or contact sales@chemwatch.net.

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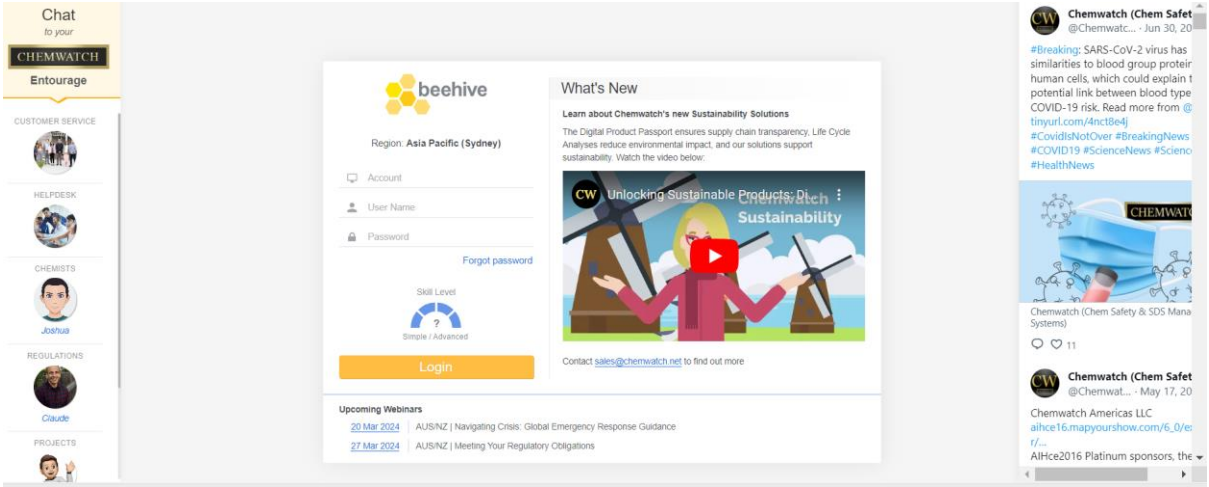
About User Login Page

The Chemwatch system is accessible online, and access is based on regional service as per the jurisdiction of the domain. The manual login main page of the system contains elements:

- Chat entourage
- User Login fields: Account, User Name and Password
- What's new
- X (formerly Twitter) pane



Elements	Function	Description
Remember me ☑ 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.
Forgot password	Change password	This feature allows Chemwatch to send an automatic email for password change. User will be required to reassign a new password.
Register	Registration link	This link opens a registration form to register for the next upcoming webinar(s).
UI Simple / Advanced	Skill level	The feature meter enables users to select the applicable skill level to use simple to advanced features of the system.
Chat	Chat Entourage	The vertical bar on the side lets users chat with their team's Entourage. These teams correspond to the departmental services available online 24/7. Users can use instant messaging to ask questions, raise inquiries, or troubleshoot problems.
X	X-Chemwatch feed	X-is formerly Twitter. It's a social media platform where Chemwatch shares messages, images, and posts.

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Single Sign On (SSO)

The Chemwatch system uses two main options for authentication:

- Manual Login
- Single Sign On (SSO)

Authentication Mode	Description
Manual Login	Users' manual login to the application requires the following authentication fields to be filled correctly. • Account Name • User Login • Password
Single Sign on	This option is available in the database to authenticate users against an external repository which contain references to the organisation's users. When using the external authentication method, only users and their passwords are externalized, all other data integrator privileges remain within the Chemwatch database repository.

The Chemwatch system login authentication requires a three-factor authentication mode for the manual login to gain access to the application through a domain account.

Single Sign-On (SSO) is an authentication process that allows users to access multiple applications or services with a single set of login credentials. Instead of entering a username and password for each service, users log in once and gain access to all connected systems. This enhances user convenience, reduces password fatigue, and improves security by reducing the number of passwords users must manage.

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

Users can register for upcoming Chemwatch webinars from the login page. On the login page, click on the "Register" link provided at the bottom of the page to fill in your details to register for the selected webinar.

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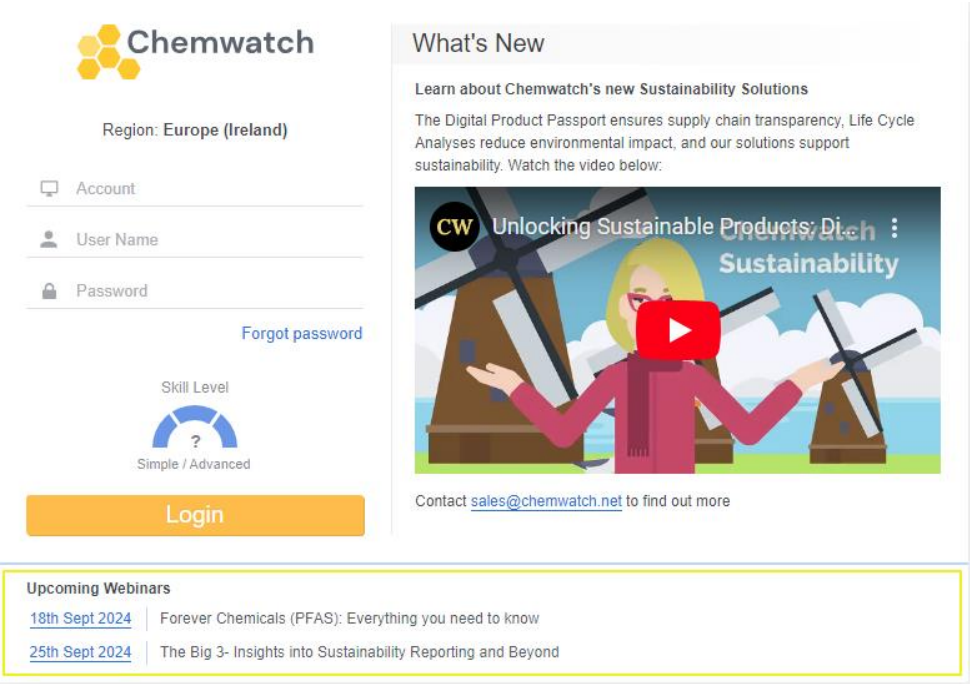

User Roles, Privileges, Interface Settings, and Folder Permissions

Administrators have full access and control of the system and can configure users access and permissions in user management, user interface settings, SDS settings and other modular settings. The system settings "User Management" module enables administrators to create and modify users, groups, roles and assign folder permissions and privileges.

Use the role/function description in the table below to check the type of user profile applicable to your login, as provided by the domain administrator of the system within your organisation. 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 summarises the best practice user roles and respective descriptions for the domain administrator, advanced and general user.

Function	User Profile	Description	Permission
Domain Administrative Role	Primary Administrator	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	Folder and inventory management level (read-write)	Management of folders, inventory/manifest	Ability to edit folders, materials, access to assigned role permissions; to be able to manage data; report generator, dashboards, document filter tools, and many more functions and features.

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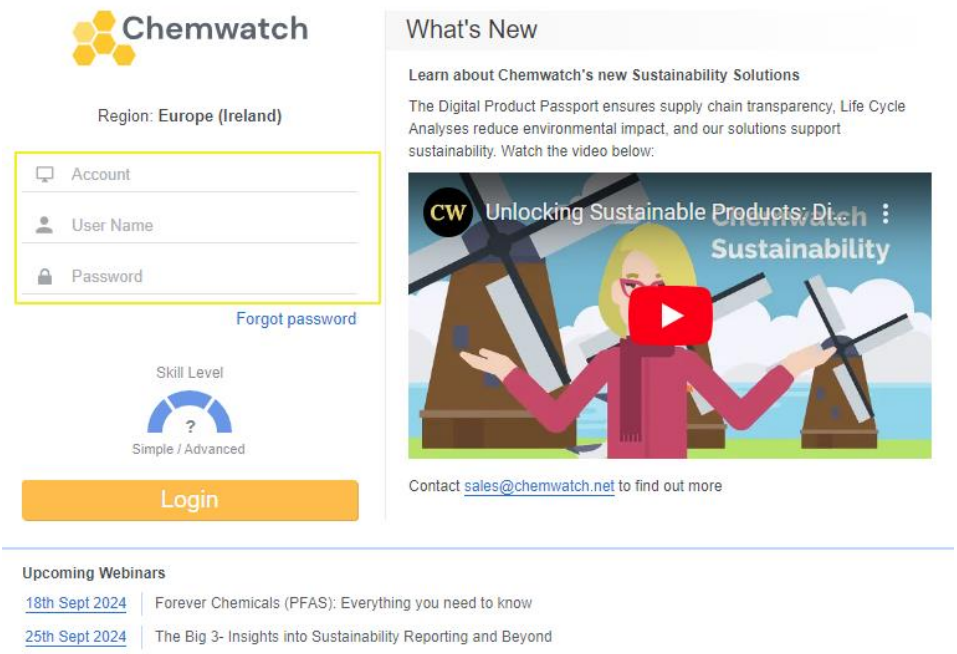
Function	User Profile	Description	Permission
Basic Role	General use level (read only)	General use may have limited access and read function	Ability to read data, search for materials, view various accessible reports as per the set privileges by the domain administrator.

Please note that the application's "**Administrator**" within your organisation or business will authenticate access to the system. For any user interface related questions on access to certain features based on skill level, contact helpdesk@chemwatch.net or submit a ticket through the chat facility.

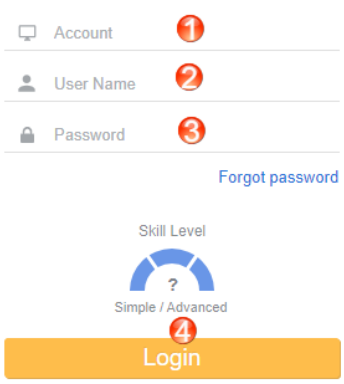
Manual Login

First time users will receive an email notification welcome message which contains the system web link and login details with a temporary password and when the credentials are entered, the system will prompt users to change it before the expiry timeframe.



Steps: How to Manually Login

1. Enter your Account.
2. Type your Username.
3. Enter your password.
4. Press the Login button.



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Upon successful login, AuthorITe will display specific modular elements, features and tools based on user settings applied by the domain administrator.

Main Screen Elements

The screen below displays user interface elements, modules, and features for advanced users of the system at full scale of the feature meter.

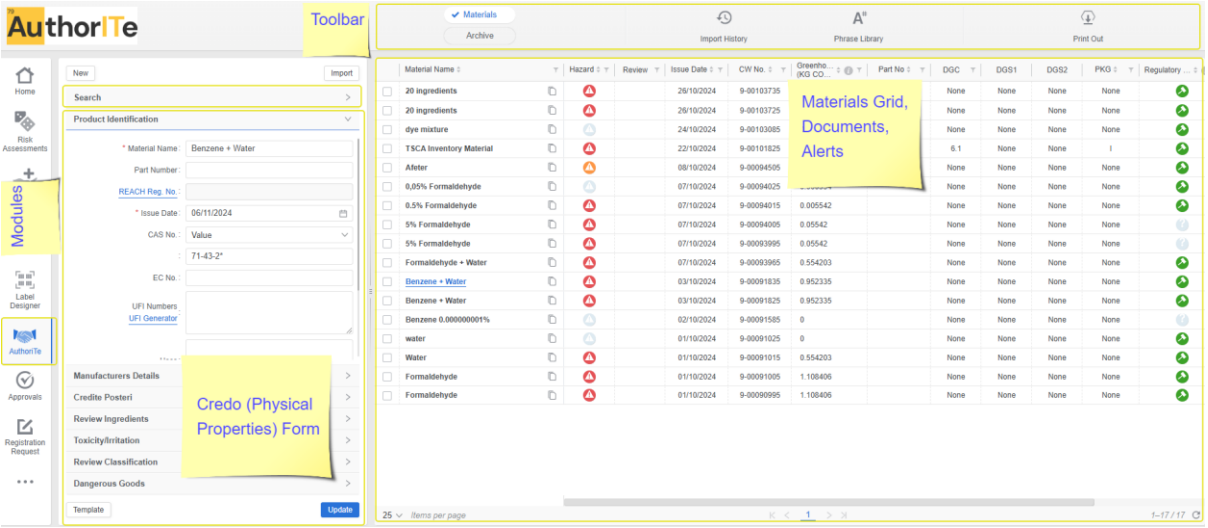

Table Description of the main components of AuthorITe home page user interface.

UI Component	Description
Modules	Product's modules, features and functionalities.
Credo Form	Users can set the language of the user interface from the dropdown list.
Search	Simple, Advanced and Query Builder search modes.
Materials Grid	Materials view, access to Documents and Alerts.
Top Tools	Access to the Tour, Elearning, Glossary, Bulletin, ChemCollege, Manual, Logout.
Toolbar	Materials/Archive, Import History, Phrase Library, Print Out (Print, Email, Download).
Live Help Chat	Online support through text messages.
Items per Page	Number of items per page to view materials through pagination.
Pagination	View materials listing by page.

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About Guidance

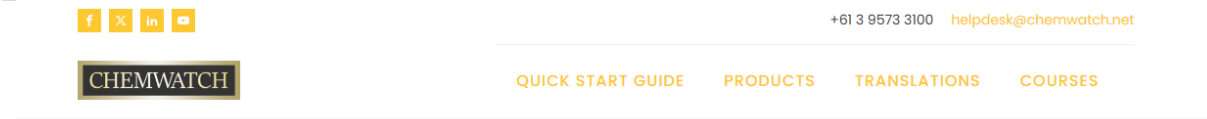
AuthorITe user interface contains guidance tools for information and learning through elearning guides, user guide, glossary, bulletin, chemcollege, logout. Access to this type of information is located at the top right corner bar user interface.

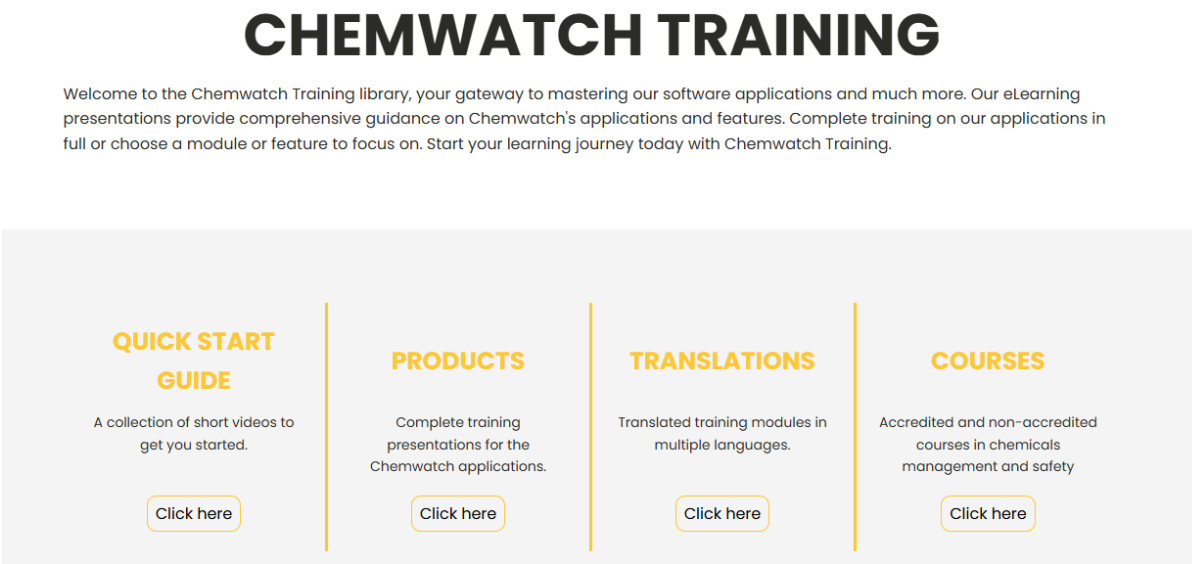
The system contains the following linked buttons:

- Elearning
- Glossary
- Bulletin
- ChemCollege
- Manual
- Logout

The table below provides descriptions of these buttons.

Useful Tools	Informative Tool	Description	Use
	Elearning	The elearning button provides access to online learning about the system	Users can learn about AuthorITe to gain knowledge on how to use the system.





	Bulletin	Chemwatch's bulletin board	Regulatory updates across the regions of the world, hazard alert, technical notes and many more.

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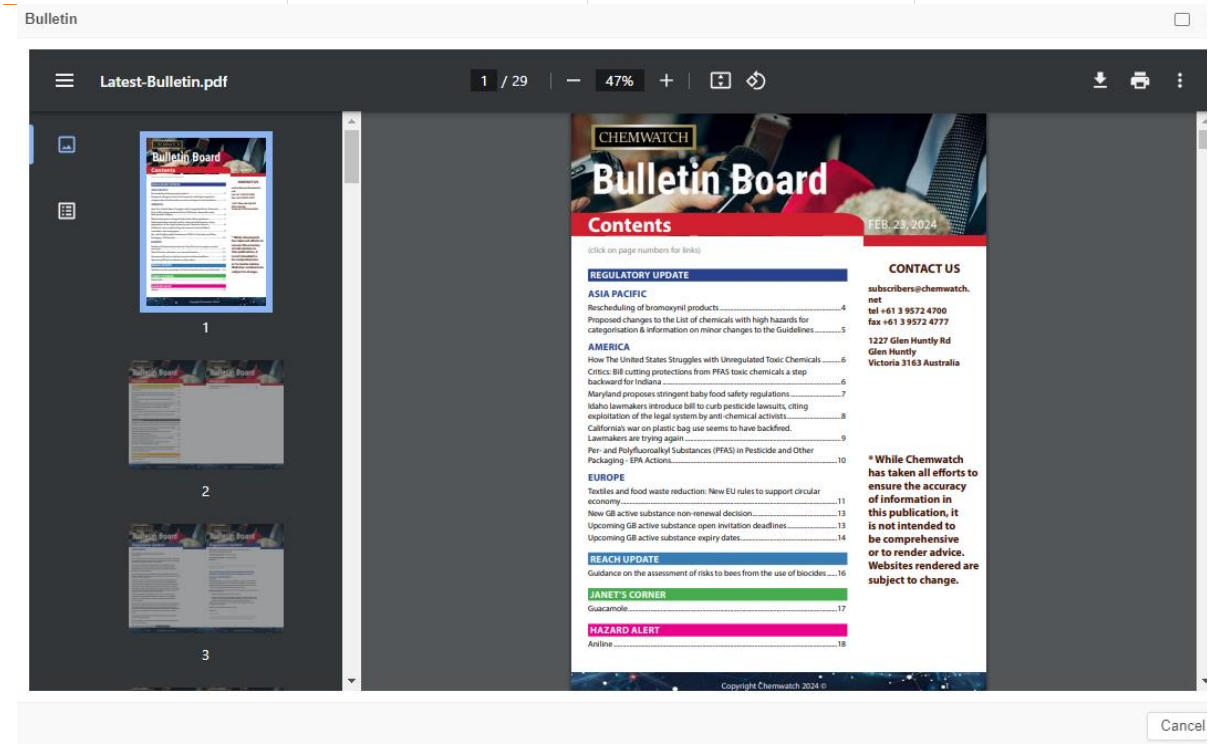
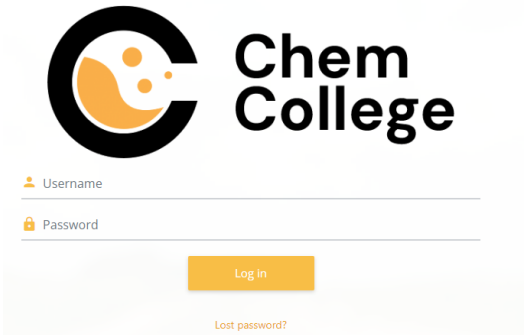
Useful Tools	Informative Tool	Description	Use



	ChemCollege	Chemwatch short courses	Learners or students login to the LMS.



	Manual	User Guide for the system	Download the user guide (manual) of the system through this button.
AZ	Glossary	This is a Chemwatch Glossary of Terms	Search for term description to learn more.

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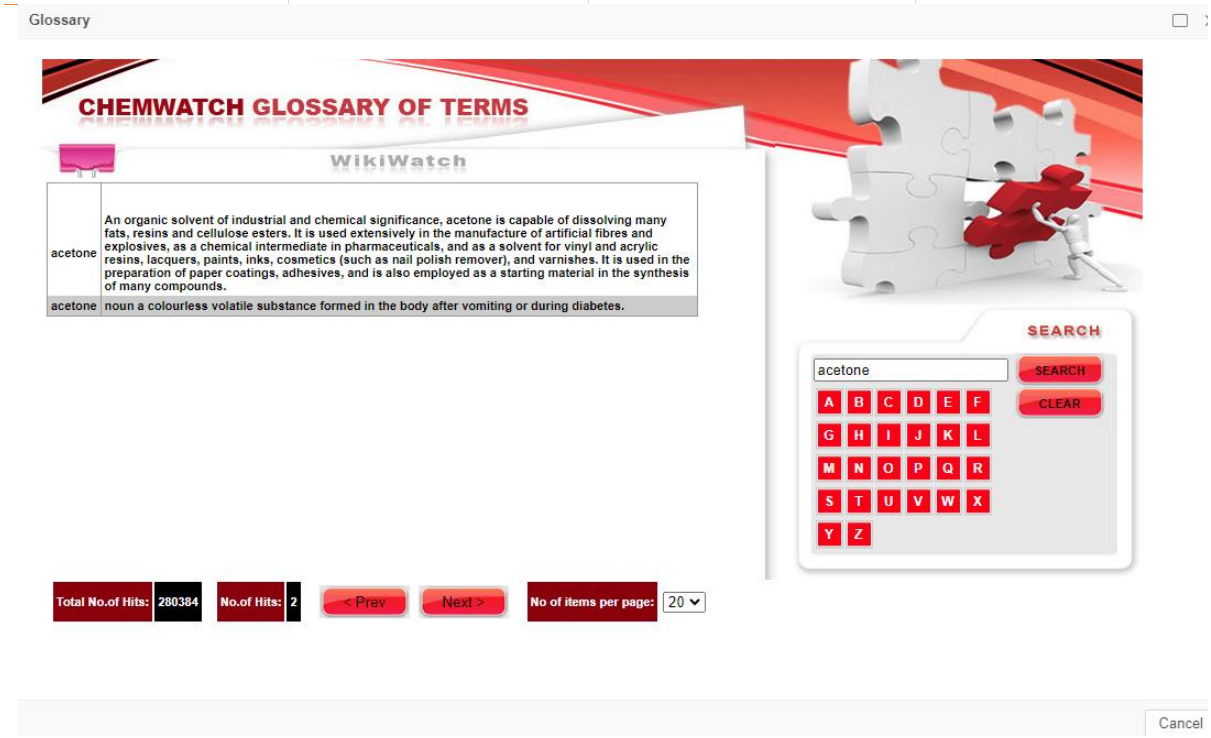
Useful Tools	Informative Tool	Description	Use
			
Logout	Logout	Logout button to sign-off the system	Logging out of the Chemwatch application will go back to the login screen.

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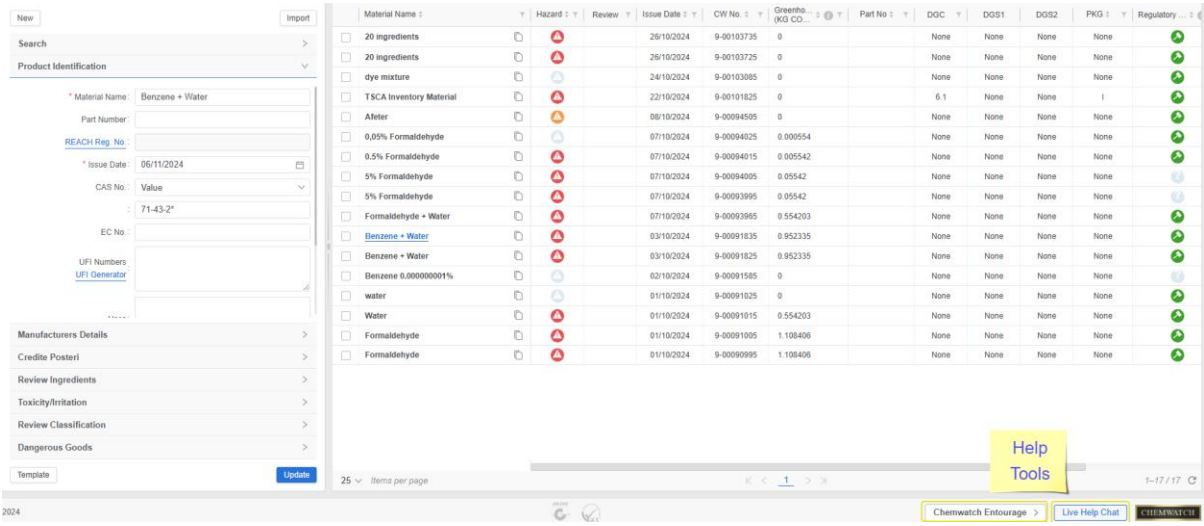
About Help and Support

AuthorITe offers a live help panel that allows users to seek immediate online support and submit complaints, issues, bugs, errors, and questions through the following tools:

Help Tool	Description
Live Chat	The application features a live help chat panel located in the bottom right corner, providing users with 24/7 access to request live online Chemwatch assistance.
Entourage	Get in touch with your Chemwatch Support Service Team. The chat option links to a live chat room and the email function allows users to submit an inquiry directly to a specific support team via the Chemtourage panel.
Calls	Incoming and outgoing calls are linked with Chemwatch CRM, allowing support teams to create tickets for follow-up actions and provide updates on submitted inquiries, enhancing support services.
Emails	Help and support emails are linked to Chemwatch customer service relation management system, enabling service teams to troubleshoot, create tickets for follow-up actions, and send updates regarding submitted issues or complaints.

Logged-in users will find Live Help Chat and Chemwatch Entourage panels conveniently located at the bottom right corner of the application, facilitating user engagement and assistance with any queries or issues.



These panels will initially appear collapsed, as depicted in the image above. When expanded, users will have the ability to:

- Chat online for support
- Send an email through the entourage

The following table provides further descriptions of the help and support related tools.

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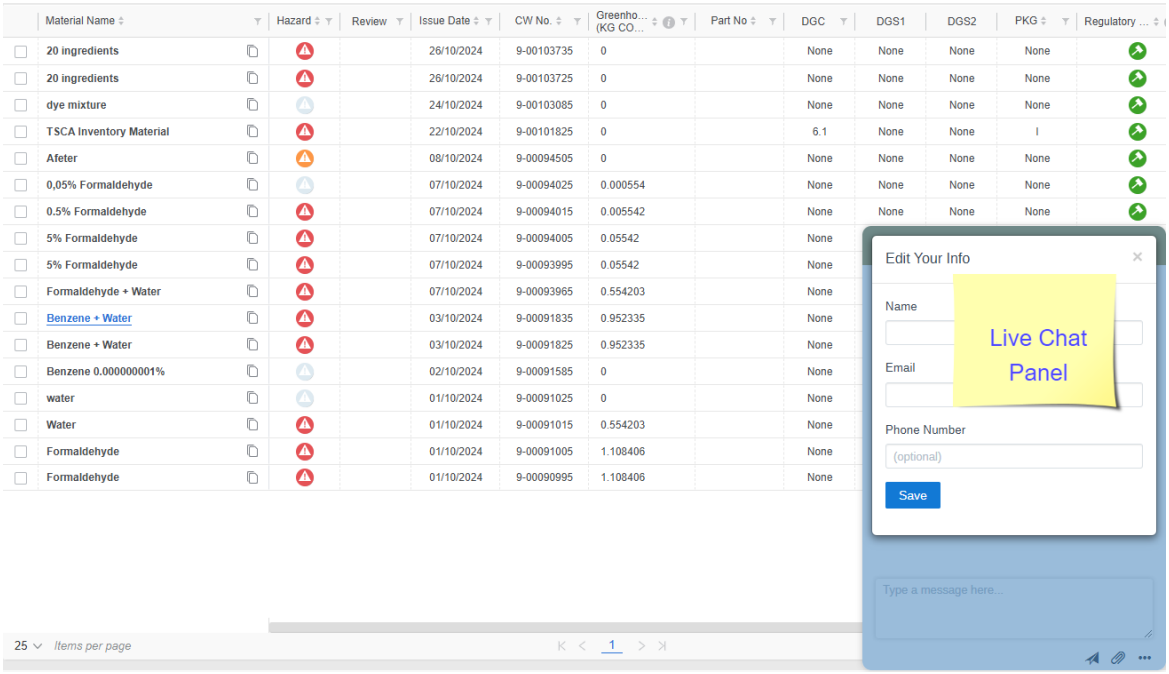
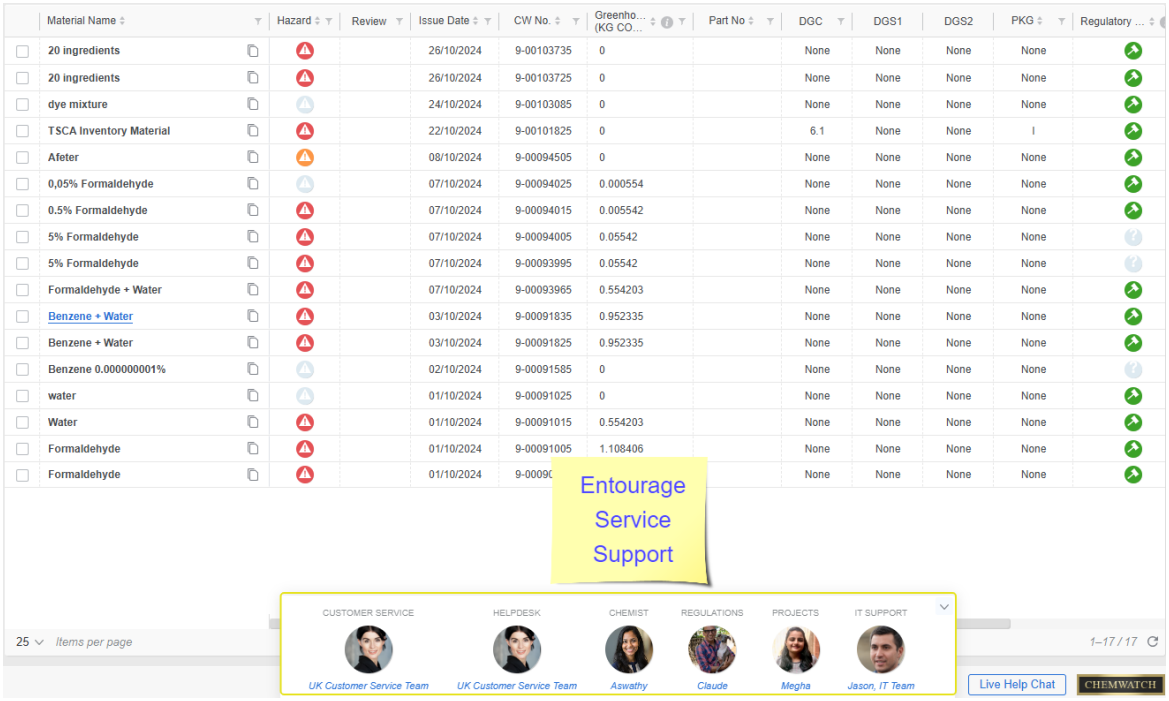
Support	Function	Description
Live chat Live Help Chat	Online instant messaging for help and support	The chat form is used to request instant support or submit an inquiry to Chemwatch. Inquiries that require follow up action will be assigned a ticket to track progress until the ticket issue is resolved.



Chemwatch Entourage Chemwatch Entourage >	Request for chat or send an email to submit an inquiry	This panel is used to submit an inquiry through the email function or chat with the Chemwatch Support Service Team.



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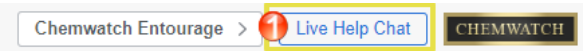
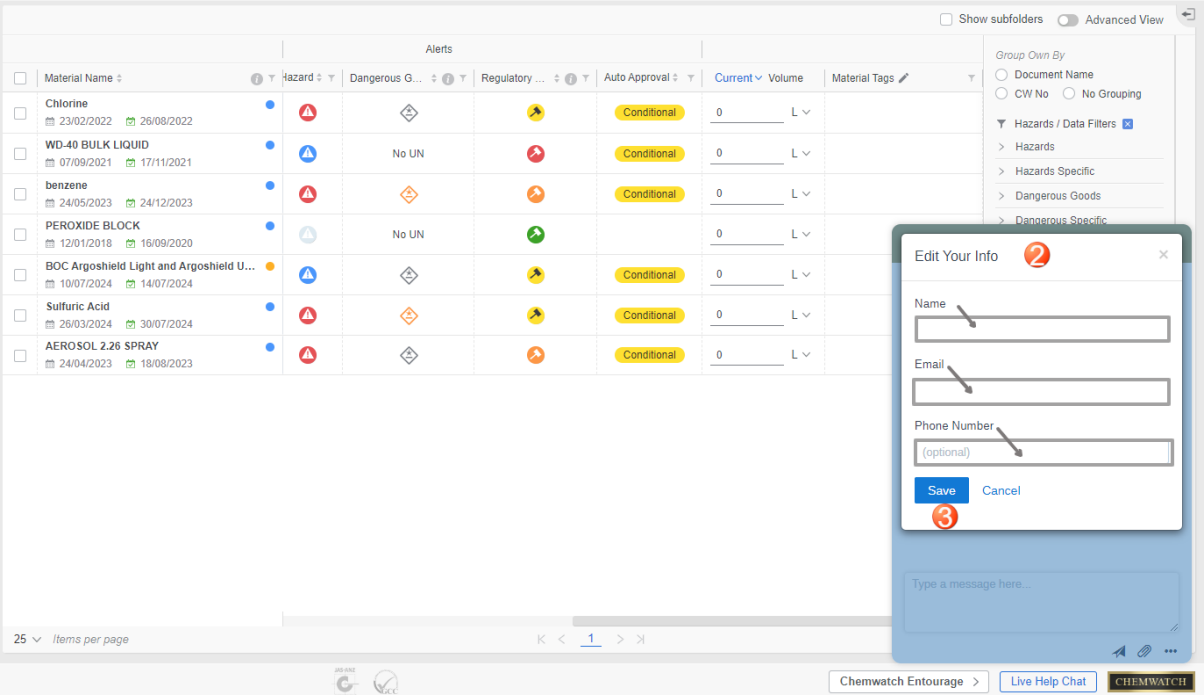
Steps: How to Use the Chat Panel

Edit Info Panel

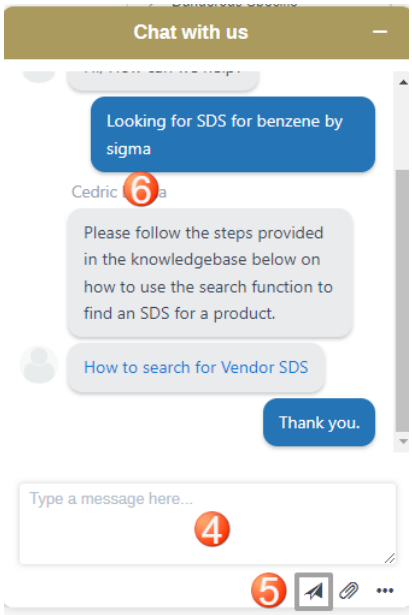
1. Click on the **Live Help Chat** button.



2. Fill in your information in the **Edit Info** Panel.
   - Name
   - Email
   - Phone Number (Optional)
3. Click the **Save** button Save.



4. Type your question or inquiry.
5. Click on the **Send chat** icon or simply press the "Enter" key on your keyboard.
6. A Chemwatch **online support team** member will respond to your inquiry or question.
7. Use the Minimize button on the top right corner of the chat panel to close the chat once the conversation is finished.



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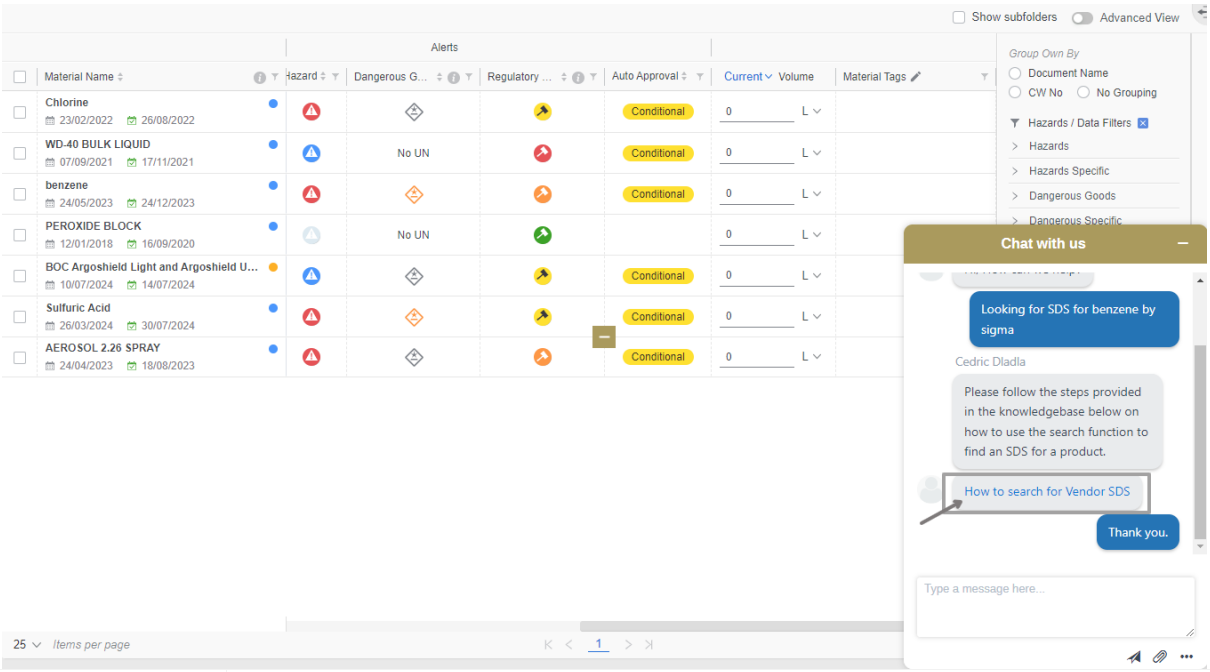
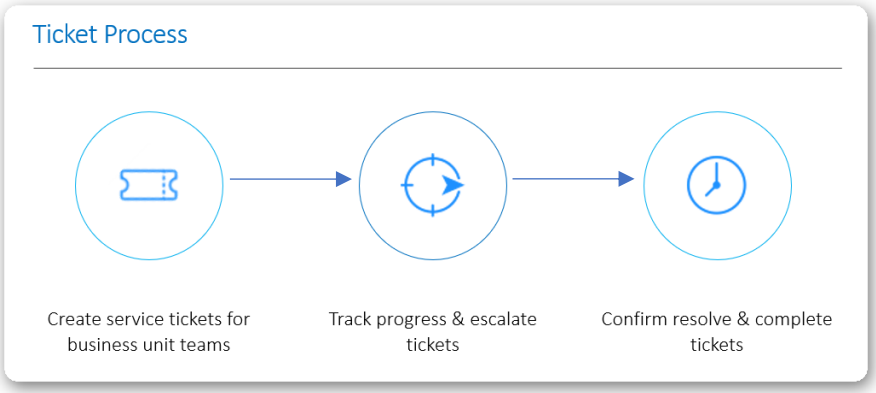
Chemwatch Support Technical Tools

The Chemwatch team may use the following chat related tools to provide you with better support and navigation through an application issue or query.

Type of Tool	Use
Screenshots	The support team might share screenshots within the chat messaging field to provide steps on how to action or carry out tasks. Click on the provided image to view the screenshot in full size.
Links	The support team might share knowledgebase articles or documentation links within the chat messaging field for more detailed information for your reference. Use the link(s) to open the details or download available document(s).



The general ticket flow illustrates the main steps undertaken for the completion of the ticket.



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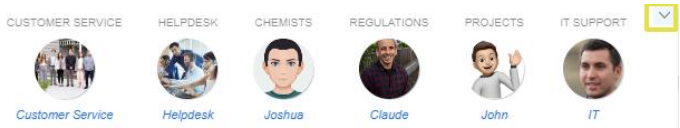
About Chemwatch Entourage

Chemwatch has developed a personalized service, continuing our commitment to an unsurpassed personal service called Entourage (also known as Chemtourage).



The Login page also contains the Entourage service teams dedicated to providing support in the various areas of expertise.

- Customer Service Account Management
- Helpdesk Support
- Project Management
- Chemists and SDS authoring
- Regulations & Custom Labels
- IT Technical Support

Getting To Know Your Entourage

Business Unit Services

Customer Service Support Team
Client account management, process requests for SDS acquisitions, SDS uploads, SDS updates, system set up, customer rollouts, complaints handling, training requests. Trouble tickets enter your managed query system which ensures timely response, your Customer Service facilitator coordinates the responses from all team members where required.
Chemist Support Team
SDS authoring, emergency response, Gold SDS reviews, SDS details inquiries, DOCGEN technical queries, WeWrites, chemical inventory audits.
Helpdesk Support Team
Help and support on how to use any of the applications. Troubleshooting and logging inquiry tickets for bugs, errors, improvements, SDS data related inquiries.
Regulations Support Team
General regulatory and label creation and customisation inquiries and advice. The specific SDS inquiries should be submitted to the Chemist first.
IT Support Team
Technical issues such as access to AuthorITe application, security, and IT related client-side requirements. The specific application use related inquiries must be logged with the Helpdesk first.

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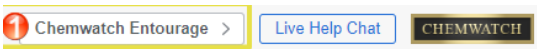
Projects Support Team
The Projects Team manages PTNs (Project Tracking Numbers) related inquiries pertaining to inventory uploads, Manifest uploads, SDS acquisition and registration phases of your projects.

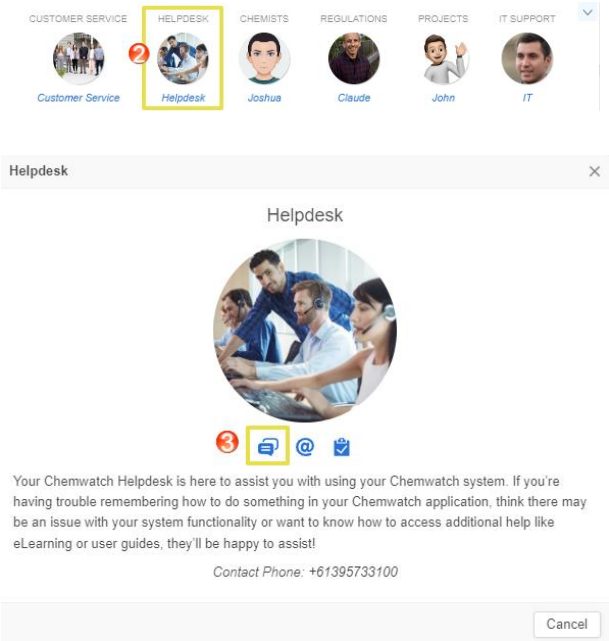
The following steps illustrate how to submit a helpdesk inquiry or question through the live chat in your Chemtourage.

Steps: How to Submit an Inquiry in Entourage

1. Open the **Chemwatch Entourage** panel.



2. Click on the **Service Team**, e.g., Helpdesk.
3. Select the chat icon from the displayed service desk profile.
4. Type your **message** or a question in the text field.
5. Press the Enter key from your keyboard or use the submit icon . A chat bot automated message displays requesting for your introduction to the chat with a quick form to fill in the required information:



Type your details and message in the live help chat form. A service team member will immediately respond to your request.

What happens after closing a chat?

If you are a first-time user of the Chemwatch Ticketing System, an activation email notification will be sent to complete the sign-up process. Follow the activation information provided in the email to gain access to the ticketing system portal, where you will be prompted to assign a password.

Send Email via the Entourage

The following steps show how to submit an inquiry or question through the Entourage email function.

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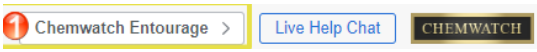
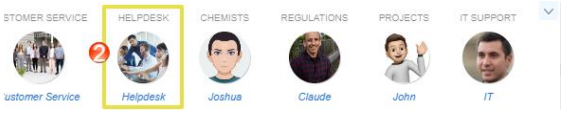
Steps: Send Email through Entourage Service

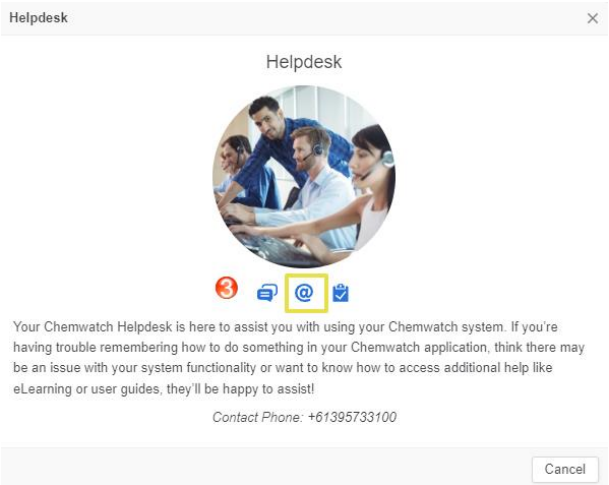
1. Open the **Chemwatch Entourage** panel.

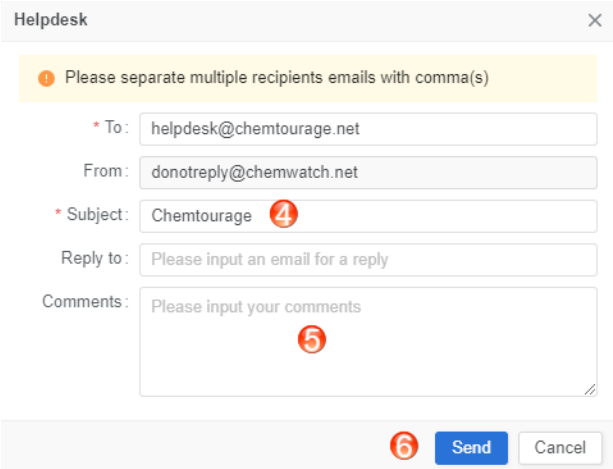


2. Click on the **Service Team**, e.g., Helpdesk



3. Select the **Email icon** @ from the displayed service desk profile.
4. Change the **Subject** or title your subject matter.
5. Type your **Comment** or a question in the text field.
6. Click the **Send** button Send to submit the inquiry.





What happens after submitting an Inquiry by email?

The Entourage email inquiry will be sent to the respective Chemwatch service department specialist to process the ticket.

> For more information about general help and support, contact helpdesk@chemwatch.net or simply use the chat panel to submit an inquiry.

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Introduction

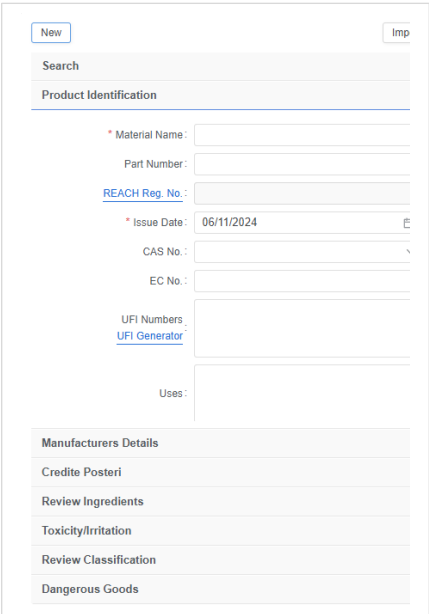
The main objectives of this chapter cover how to use AuthorITe to create material mixtures based on specific ingredient(s) and generate reports.

WHAT YOU'LL LEARN

- Identify the mixture, chemical inputs and properties
- Manufacturer details
- Ingredients, proportion % and physical properties
- Review ingredients hazards classification
- Extract hazards classification
- Input dangerous goods classification data
- Generate auto-suggest dangerous goods classification information
- Create a product SDS and generate other documents
- Edit SDS
- Publish SDS
- Publish History
- Phase Library
- Multi-language SDS

Authoring SDS can be a complex exercise, however, with AuthorITe, the process is seamless when all relevant information is available as input data to edit and produce an official SDS for your products or mixtures. Creating a mixture involves the combination two or more substances or chemicals to achieve a specific product with its own characteristics. Input data is captured through the Credo form. The Credo form contains tabs to fill in the required information about the mixture based on input ingredients. The Credo form contains the following tabs:

- Product Identification
- Manufacturers Details
- Credite Posteri (Physical Properties)
- Review Ingredients
- Toxicity/Irritation
- Review Classification
- Dangerous Goods



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The information input into the form's sectional fields is used to calculate the hazards and or dangerous goods classification of the mixture based on the ingredients. Creating a mixture involves more than one ingredient with their respective chemical proportion (%) composition. The system produces authored SDS and other pertinent data in the grid pertainng to the material, such as hazard rating, greenhouse gas emissions rating.

Hazard Rating

Authored SDS are colour coded in accordance with the Chemwatch hazard rating criteria.

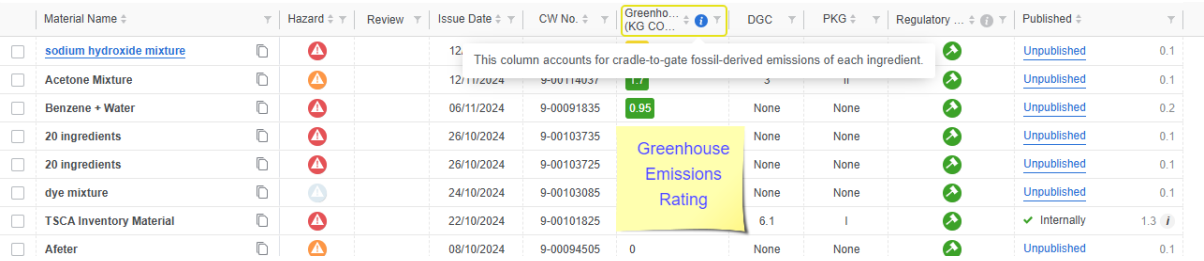
- Flammability
- Toxicity
- Body Contact
- Reactivity
- Chronic

All formats support GHS, REACH, Chinese, Japanese, Korean, NZ, etc. in almost 50 languages and growing. More is discussed about SDS formats and jurisdictional settings in this guide.

Colour	Hazard Rating	Hazard Icon	Hazard Rating Meaning
Grey	0		None
Blue	1		Low
Yellow	2		Moderate
Orange	3		High
Red	4		Extreme

Greenhouse Rating

The Greenhouse Emissions rating (score) is a measure used to evaluate and compare the environmental impact of products, processes, or companies based on the amount of greenhouse gases (GHGs) they emit, such as carbon dioxide (CO_2), methane (CH_4), and nitrous oxide (N_2O). This rating helps consumers, businesses, and regulators understand and assess the carbon footprint associated with various products or activities.



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The calculation is based on a % of the total proportion of the ingredients.

Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published	
sodium hydroxide mixture			12/11/2024	9-00114047	2.3				Unpublished	0.1
Acetone Mixture			12/11/2024	9-00114037	1.7	3	II		Unpublished	0.1
Benzene + Water			06/11/2024	9-00091835	0.95	None	None		Unpublished	0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished	0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished	0.1
dye mixture			24/10/2024	9-00103085	0	None	None		Unpublished	0.1
TSCA Inventory Material			22/10/2024	9-00101825	0	6.1	I		✔ Internally	1.3
Afeter			08/10/2024	9-00094505	0	None	None		Unpublished	0.1
0,05% Formaldehyde			07/10/2024	9-00094025	0.000554	None	None		Unpublished	0.1
0.5% Formaldehyde			07/10/2024	9-00094015	0.005542	None	None		Unpublished	0.1

This calculation is based on **80%** of the total proportion of the ingredients.

Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published	
sodium hydroxide mixture			12/11/2024	9-00114047	2.3				Unpublished	0.1
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20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished	0.1
dye mixture			24/10/2024	9-00103085	0	None	None		Unpublished	0.1
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0.5% Formaldehyde			07/10/2024	9-00094015	0.005542	None	None		Unpublished	0.1

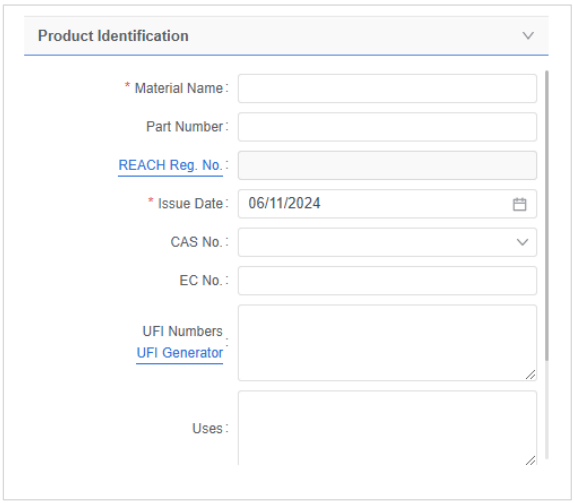
This calculation is based on **80%** of the total proportion of the ingredients.

The rating can guide eco-friendly choices and often incentivizes emission reductions by identifying more sustainable alternatives. Typically, the rating system is scaled, with lower ratings indicating higher emissions and higher ratings indicating more environmentally friendly options.

1.1 Product Identification

Product identification input fields:

- Name of the Material (Required)
- Part Number
- REACH Reg No
- Issue Date (Required)
- CAS No.
- EC No.
- UFI Numbers
- Uses



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Data Point	Description	Notes

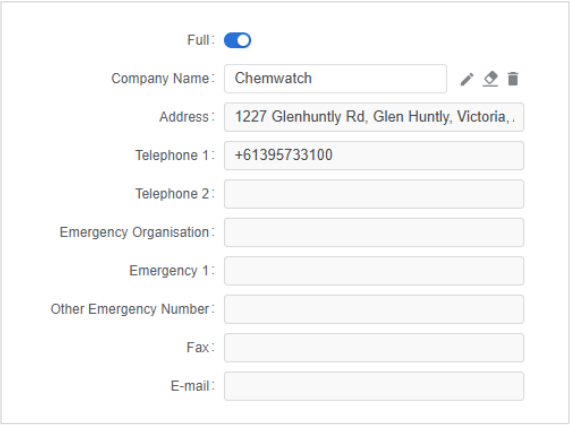
This tab enables user data input options that identifies the material mixture. Note that some data points are drawn by default from the database, e.g., issue date, uses, synonyms.

Material Name	Name of the Mixture.	This is the name of the mixture. This field is mandatory.
Part Number	Part number allocated to the mixture.	Optional
REACH Reg. No	Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals for the European Union.	REACH Registration number should be entered in this field for pure chemicals (optional). Can be sought in Section 1 of the European GHS SDS. May not be necessary or available when creating mixture for internal use
Issue Date	Date of issue.	This field is mandatory.
CAS No.	Chemical Abstract Substance Number.	Applicable for pure chemicals only. Use 'Not Available' when material is a pure chemical, but no CAS number is available.
EC No.	European Council number assigned to a substance.	EC No. can be found in Section 1 of the SDS. Applicable to pure chemicals only.
UFI Numbers UFI Generator	Unique Formula Identifier, applicable in the EEA market. UFI Generator – generates UFI Numbers.	It is a 16-character code is used for mandatory reporting on products that contain a hazardous mixture. If no data is found, leave this field blank.
Uses	Define the use of the product.	This is the product use details “text field” to enter the use or purpose of the mixture.
REACH Uses	Uses based on REACH regulations.	Applicable to Europe. Click the field to open the REACH Uses window and category dropdowns to select by clicking on red symbol if the use is advised against.
Synonyms	Other name(s) of the mixture or trade names, part numbers.	Enter the applicable synonym for the mixture (optional). The field can be left blank.

1.2 Manufacturers Details Tab

SDS must contain the manufacturer (vendor, supplier) details.

- Company name
- Address
- Telephone
- Emergency Information
- Email
- Website



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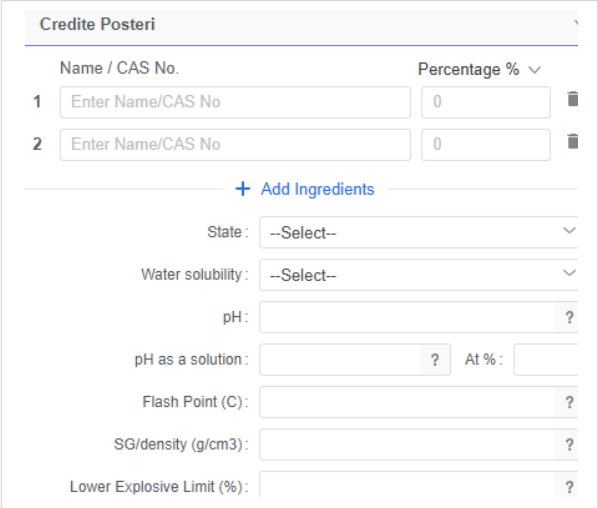
Data Point	Description	Notes
This tab enables user data input of the Manufacturer (Vendor) details. Note that the vendor may be your own organisation's address.		
Company name and other details	Your own organisation's name and specific details. Use the add button to add your own manufacturer details.	Provide the organisational name and the details of where the mixture is being made. Note that this information will be shown in the SDS.

1.3 Credite Posteri Tab

SDS should describe any specific hazards that may arise from the hazardous chemical relevant to its physical properties. The form contains ingredients fields and percentage % composition and other physical properties fields including:

- Physical State
- Water Solubility
- pH
- Flashpoint
- Specific Gravity/Density
- LEL (%)

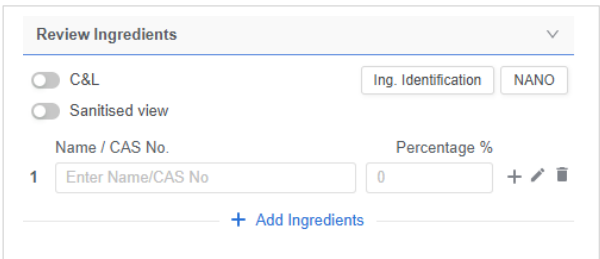


Data Point	Description	Notes
This tab enables ingredients and physical properties data input for the mixture.		
Name/CAS No. and Proportion	Ingredient(s) fields	Enter the ingredients of the mixture and the respective proportion (%) value of each ingredient in each line item.
Physical Properties	State of the mixture, water solubility, appearance, and other datapoints if known or available.	Not all the physical properties data may be available. Ignore the fields where information is not available.

1.4 Review Ingredients Tab

Data input of ingredients is calculated based on GHS as a default classification or C&L for the EU. Other review features include:

- Percentage (%) composition
- Sanitise Ingredient(s)
- Hide Ingredients
- Add more ingredient(s)
- Ingredient Identification
- Nano – shape, category



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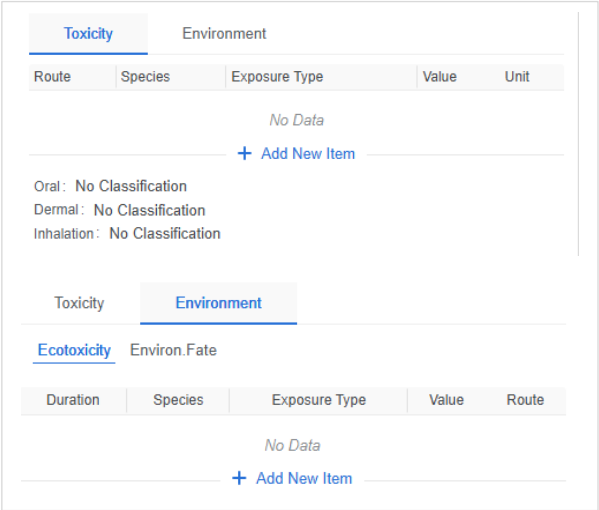
Data Point	Description	Notes
This tab enables user data input for the mixture to be calculated by using the GHS (default setting) or C&L classification for the EU where data is available. Hide ingredient(s) composition, sanitise ingredients and a range of % proportion, and/or use auto sanitise by turning on the switch or off .		
C&L	European Classification and Labelling Inventory	The mixture classification may be calculated using the C&L Inventory. Turn on to display European Classification and Labelling. If substance classifications exist, the most prevalent classification will be displayed.
Sanitised View	Sanitise and/or Auto-sanitise feature	Hide exact formulation for the mixture's ingredients and proportions.

1.5 Toxicity/Irritation Tab

Data input based on route of exposure, environment ecotoxicity data and environmental fate provision where available include:

- Route, oral, dermal, inhalation
- Species
- Exposure type and value
- Duration of exposure
- Exposure type and value



Data Point	Description	Notes
This tab enables user data input for the mixture to be provided where it is available for toxicity and environmental ecotoxicity.		
Toxicity	Input toxicity data for material	Input toxicity data and select route of exposure, species, exposure type and unit measure.
Environment	Input ecotoxicity data for material.	Input ecotoxicity data and select duration, species, exposure type and unit measure.

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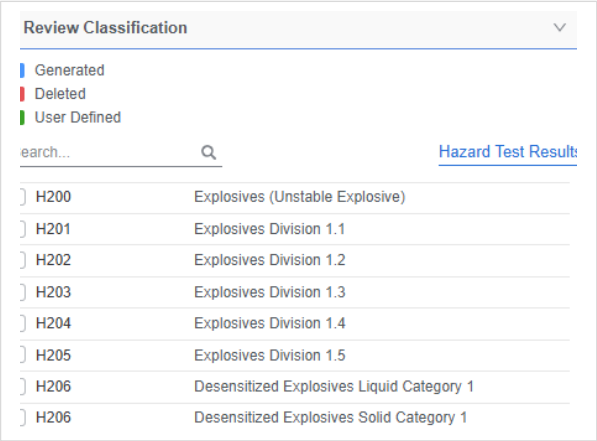
1.6 Review Classification Tab

Data input based on route of exposure, environment ecotoxicity data and environmental fate provision where available include:

- Route, oral, dermal, inhalation
- Species
- Exposure type and value
- Duration of exposure
- Exposure type and value

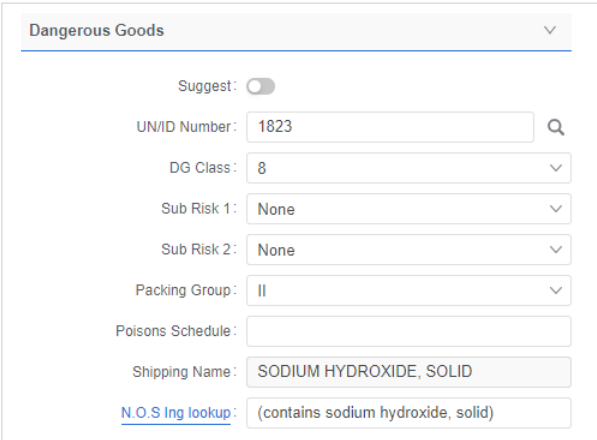


Data Point	Description	Notes
This tab enables user data input for the mixture for the classification calculation to be used, hide ingredient(s) composition, etc.		
Generated	GHS classification codes are generated based on ingredients in the mixture.	Review classification codes by using the checkboxes alongside each hazard/risk code
Deleted	Classification codes that are deleted get displayed when this option is selected.	Display the deleted risk/hazard classification codes of the mixture by selecting the deleted option.
User Defined	Classification codes selected by user.	Display the classification selected by the user by selecting the User Defined option.
Hazard Test Results	This link provides the hazard test window to input hazard classification type, HCode, Test Name. Note that the default hazards identified will be marked in the corresponding checkbox line item ☑.	Select this option to input respectively identified H codes and enter a test name for each hazard category.

1.7 Dangerous Goods Tab

Data input for the dangerous goods classification of the material based on ingredient where available include:

- UN/ID Number
- DG Class
- Sub Risk
- Packing Group
- Shipping Name
- Poison Schedule
- Auto-Suggest



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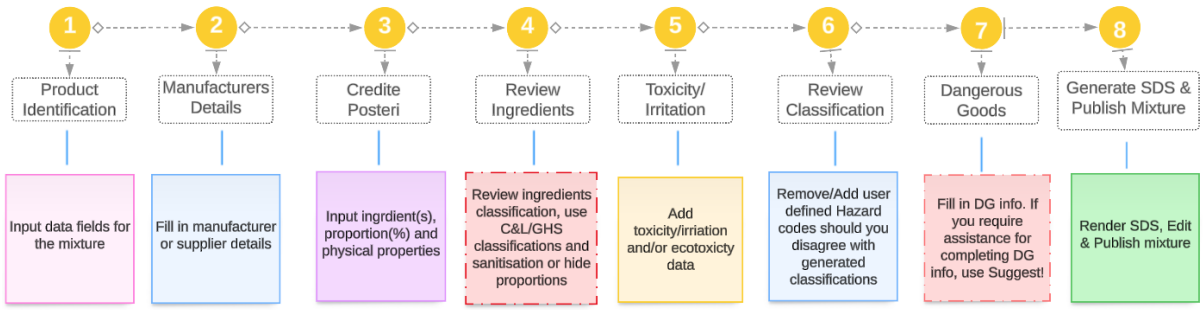
Data Point	Description	Notes
This tab enables user data input for the mixture where dangerous goods classification is available.		
UN/ID Number	A quick look up for the United Nations Number for the prominent ingredient.	Assign UN No. for the prominent ingredient.
DG Class	Dangerous Goods Class	Assign a DG Class from the drop-down list for the prominent ingredient.
Sub Risk 1, 2	Dangerous Good Sub Risk 1, 2.	Assign the Dangerous Good Sub Risk 1, 2 as per transport regulations.
Packing Group	Dangerous Good Packing Group as per the packing instructions.	Assign the Dangerous Good Packing Group from the drop-down list.
Poison Schedule	Poison Schedule based on the Australian classification system that controls medicines and poisons.	Assign the Poison Schedule for the prominent ingredient to be able to identify the mixture as a poison.
Shipping Name	Shipping Name related to the Dangerous Good classification.	Assign the shipping name based on the prominent ingredient, if classified as a Dangerous Good.
N.O.S Ing lookup	Link to the proper shipping name of mixtures.	Use this link to look up the proper shipping name of the mixture that has a potential variety of hazardous ingredients, applicable name in the UN list.

1.8 SDS Authoring and Publishing Document Process-Flow

The process-flow when creating SDS and publishing the document involves several action points to render a final authored SDS.

SDS Creation Flow



When all the Credo Form data has been filled, the Submit button triggers the rendering of the first draft SDS with the version number (0.1) of the document. The SDS can be further edited using the Edit function.

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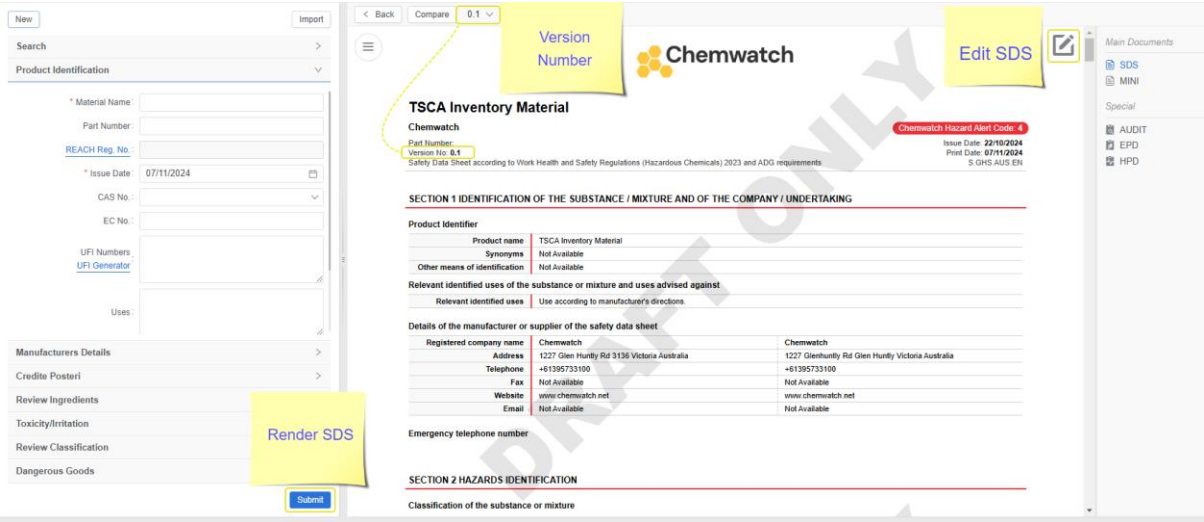

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2.0 Create Material SDS

The main objectives of this chapter cover how to use the CREDO Form to create material mixtures and generate authored SDS.

WHAT YOU'LL LEARN

- Input data fields in the CREDO Form
- Interpreting grid data
- Understanding classification of material
- Interpreting alert icons
- Use of the SDS Edit function
- Use of CPs in Phrase Library
- Authored SDS translations
- SDS Settings
- Publishing and versioning authored SDS
- Editing SDS
- List of Concern
- History Logs

Creating a mixture involves the combination two or more substances or chemical ingredients to achieve a specific product output with its own characteristics. The SDS authoring process follows the stated process-flow in the system to fill all relevant and available data in the Credo Form to generate the SDS and publish it.

Quick Recap

Creating a mixture involves more than one ingredient with their respective chemical proportion (%) composition. The Credo form contains the following tabs:

- Product Identification
- Manufacturers Details
- Credite Posteri (Physical Properties)
- Review Ingredients
- Toxicity/Irritation
- Review Classification
- Dangerous Goods

The following exercise shows how to use the form tabs to input data and generate your first draft SDS.

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2.1 Classify a Material or Mixture

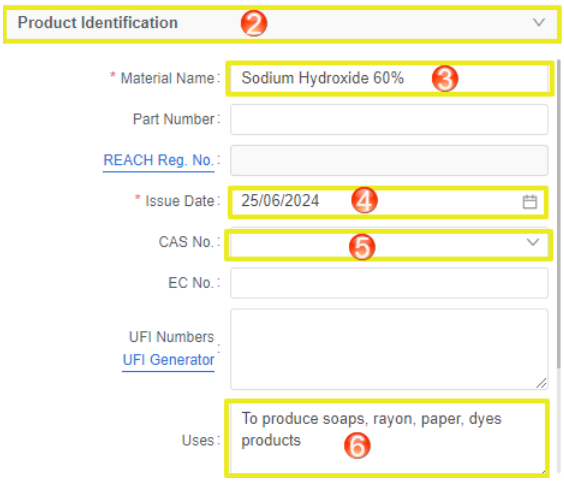
The steps illustrate how to create a mixture and generate SDS. Generating the classification for a mixture requires some basic information on hand to complete the exercise, at the least, two ingredients with varying chemical composition and proportion are used in the worked example.

Steps: Classify a Mixture and Generate Documents

Product Identification Details

1. Click on the **CREDO module** button .
2. Open **Product Identification** tab by clicking on the header/forward arrow .
3. Type the name of the mixture in the **Material Name** field. Note that this is a mandatory field.
4. Set the **Issue Date** from calendar .
5. Select a CAS No where applicable by selecting the **Value** option and type the number in the CAS No field. If a CAS No is not available, select appropriate option; Not Avail or None.
6. Type in the uses of the mixture in the **Uses** text field.

Product Identification Details Form



Manufacturers Details

7. Open **Manufacturers Details** tab by clicking on the header/forward arrow .
8. Use the **Own** switch to add your own details or use the pen to edit existing details, company name, address, telephone numbers, emergency organisation, email.

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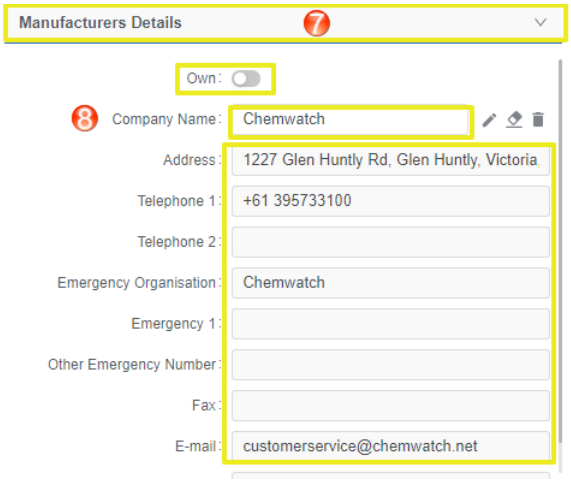
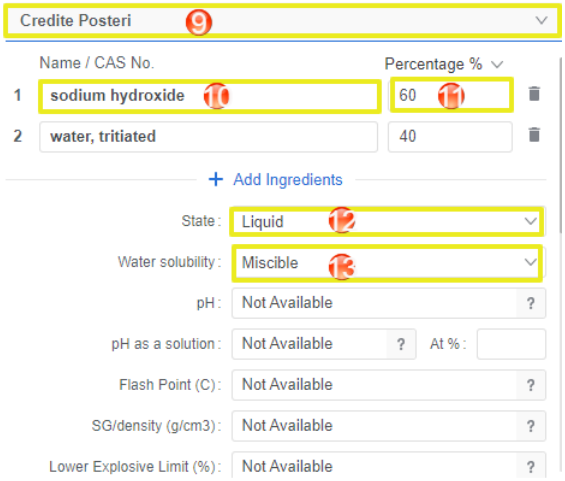
Manufacturers Details Form

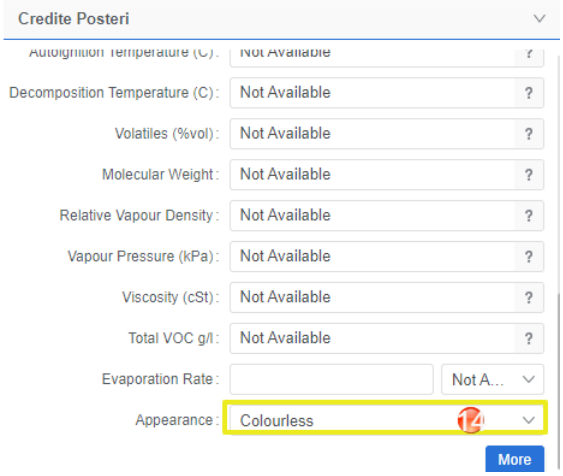


Credite Posteri Details (Physical Properties)

9. Open **Credite Posteri** tab by clicking on the header/forward arrow >.
10. Enter **ingredients 1** and 2 in the Name/CAS No. fields to look up in the database and select the **ingredient name** from the auto-complete search results.
11. Add the exact **ingredient proportion** or concentration in the Percentage % field.
12. Set the Physical **State** of the mixture using the dropdown arrow to choose an option, Solid, Liquid, Gas, etc.
13. Set the **Water Solubility** where applicable. Use the dropdown arrow to choose the appropriate option for the mixture.
14. Scroll down to select the specific **Appearance** of the mixture from the dropdown list, e.g., Colourless. Use the More button More to add additional physical properties.

Credit Posteri (Physical Properties)





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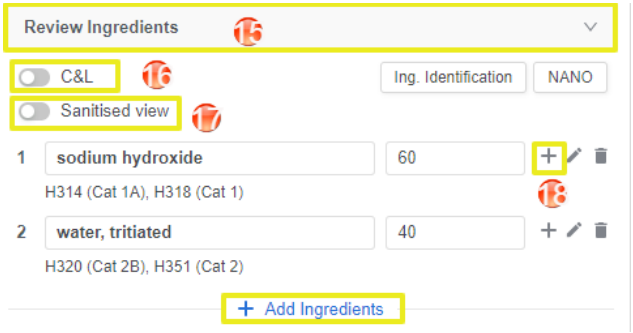
Review Ingredients

15. Open **Review Ingredients** tab by clicking on the header/forward arrow >.
16. Use **C&L** switch to display EU Classification if applicable.
17. **Sanitise** the ingredients by turning on the switch to modify the names of the ingredients and concentration.
18. Click on the **Add** icon to add further details
19. Set the **Water Solubility** where applicable. Use the dropdown arrow to choose the appropriate option for the mixture.
20. Scroll down to select the specific **Appearance** of the mixture from the dropdown list, e.g., Colourless. Use the More button More to add additional physical properties.

Review Ingredients

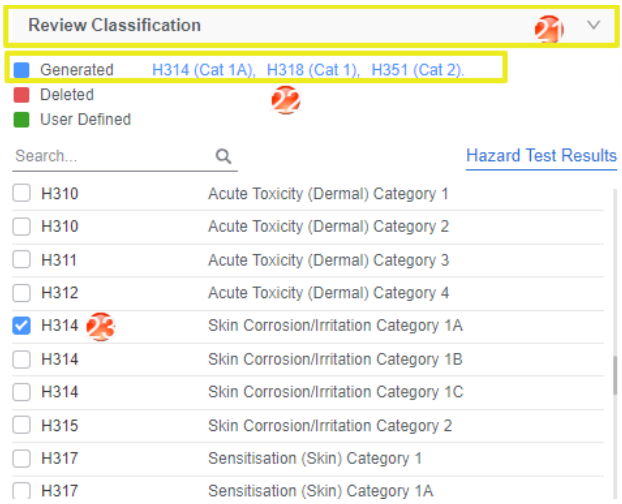


Review Classification

21. Click on **Review Classification** tab or header/forward arrow >.
22. Note the **Generated GHS hazard codes** for the mixture based on the ingredients and respective concentration/proportion. The hazard codes are checkbox marked ☑ by default.

    Optional: Extra hazard codes can be added by selecting the respective checkbox as user defined.
23. Optional: Uncheck a hazard code checkbox to remove it from the preselection and will be shown as Deleted.

Review Classification



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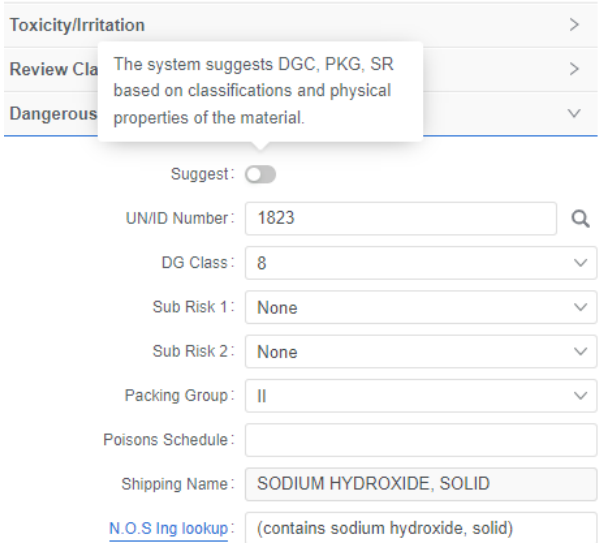
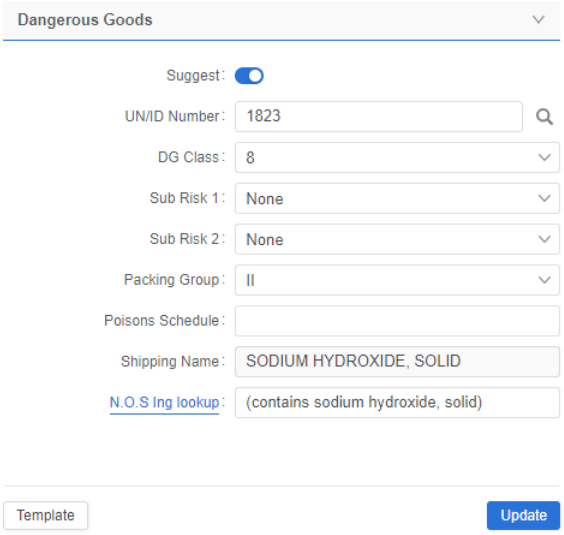
Dangerous Goods





1. Click on the **Dangerous Goods** tab or header/forward arrow >.
2. Enter the UN/ID Number for the primary ingredient, DG Class, Packing Group.

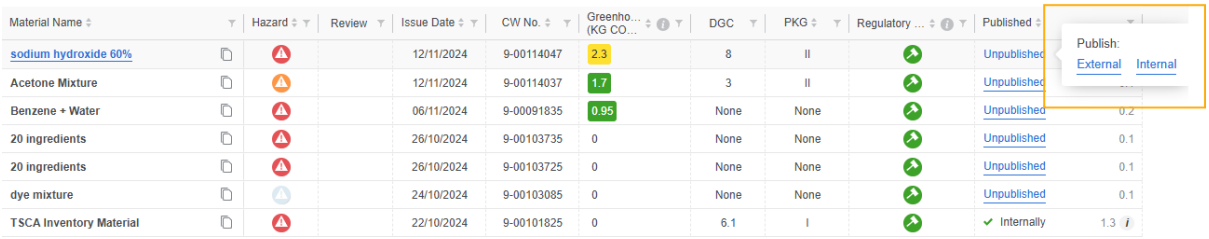
Optional:

Turn on the **Suggest** switch Suggest: for the system to suggest DGC (Dangerous Goods Class), PKG (Packing group), SR (Sub Risk) and physical properties.

The **UN No, DG Class, Packing Group and Shipping Name** is automatically inserted into the respective classification field in the form. Enter the Poison Schedule number (if applicable).

3. Select the **Submit** button Submit to create the mixture. Message confirms successful operation. **STOT Selection** display with options for specific target organs, skip or apply relevant organs by toxicity for the hazard category and **Route of Exposure**; Oral, Dermal or Inhalation.
4. Click or hover mouse over the **Documents** icon and select the **SDS** icon to render the document.
5. Use the **Published column** to choose the appropriate publishing option (Internal/External) from the Unpublished link; **External or Internal** publish. Note that *Internal Publish* saves the mixture in the Own inventory.

The N.O.S.Ing. lookup link field gets populated with the relevant information for which the ingredient is contained in the mixture.



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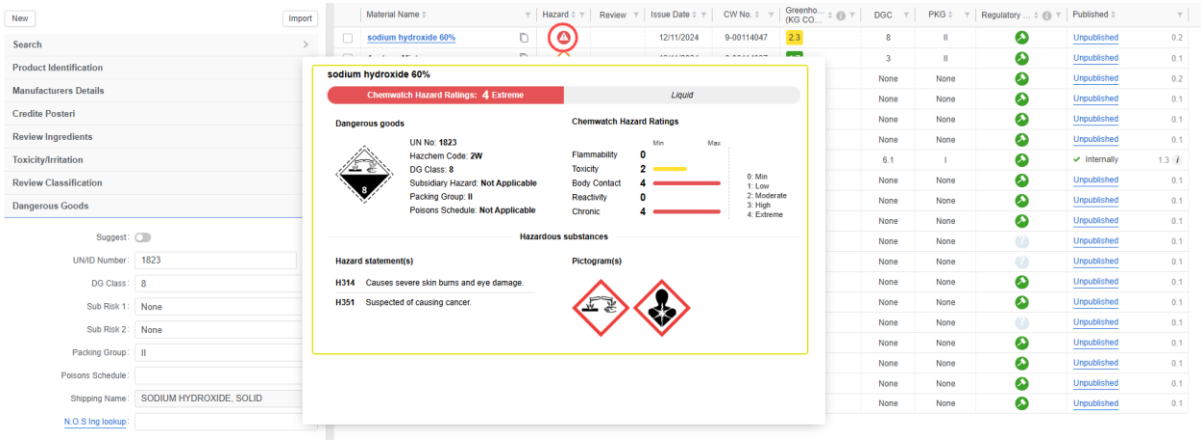
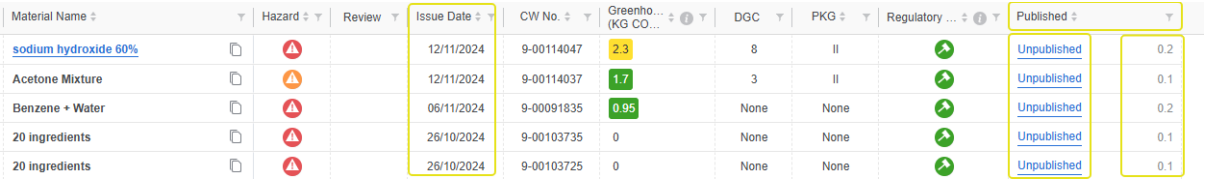
An important analogy about the generated mixture is that it is classified (**GHS**) as an extremely hazardous material shown by the hazard icon color code based on the ingredients and proportion % composition calculation as well as a dangerous good class.

Tooltip displays hazard summary information as part of the alert system's hazard communication principles for best practice for a well robust health and safety system at the workplace.



Every first generate draft starts off with an issue date and version. The grid automatically plugs in this valuable piece of data in the respective columns; Issue Date, Published.



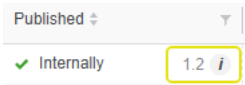
Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published	
sodium hydroxide 60%			12/11/2024	9-00114047	2.3	8	II		Unpublished	0.2
Acetone Mixture			12/11/2024	9-00114037	1.7	3	II		Unpublished	0.1
Benzene + Water			06/11/2024	9-00091835	0.95	None	None		Unpublished	0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished	0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished	0.1

2.1.1 Publish SDS

1. Use the **Published** column to choose the appropriate publishing option (Internal/External) from the Unpublished link; **External or Internal** publish.

Note that *Internal Publish* saves the mixture in the Own inventory.

2. Take note of the **publishing progress bar** reflecting the status of the process.
3. All internally published SDS will display the **version number** with "*i*" for internal authored versions.
4. Click or hover mouse over **Documents icon** and select the **SDS icon** to render the document.



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Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published
sodium hydroxide 60%			12/11/2024	9-00114047	2.3	8	II		Publishing: 55%
Acetone Mixture			12/11/2024	9-00114037	1.7	3	II		Unpublished 0.1
Benzene + Water			06/11/2024	9-00091835	0.95	None	None		Unpublished 0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished 0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished 0.1

Internally published material SDS shown on grid ‘s Published” column.

Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published
sodium hydroxide 60%			12/11/2024	9-00114047	2.3	8	II		Internally 1.2
Acetone Mixture			12/11/2024	9-00114037	1.7	3	II		Unpublished 0.1
Benzene + Water			06/11/2024	9-00091835	0.95	None	None		Unpublished 0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished 0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished 0.1
dye mixture			24/10/2024	9-00103085	0	None	None		Unpublished 0.1

Documents - SDS Icon to Render

Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published
sodium hydroxide 60%			12/11/2024	9-00114047	2.3	8	II		Internally 1.2
Acetone Mixture				9-00114037	1.7	3	II		Unpublished 0.1
Benzene + Water				9-00091835	0.95	None	None		Unpublished 0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished 0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished 0.1
dye mixture			24/10/2024	9-00103085	0	None	None		Unpublished 0.1

SDS Mini Audit LOC EPD HPD

SDS Authored Successfully

Important Material Document Data:

- Material Name: Product Name: Name of the Mixture
- SDS Version Number: x.y
- Issue Date (dd/mm/yyyy)
- Print Date (dd/mm/yyyy)
- Classification Instrument (GHS, AUS EN – Australian English)
- Part Number (Optional)
- Colour Coded Hazard Rating: Extreme, High, Moderate, Low or Non-hazardous

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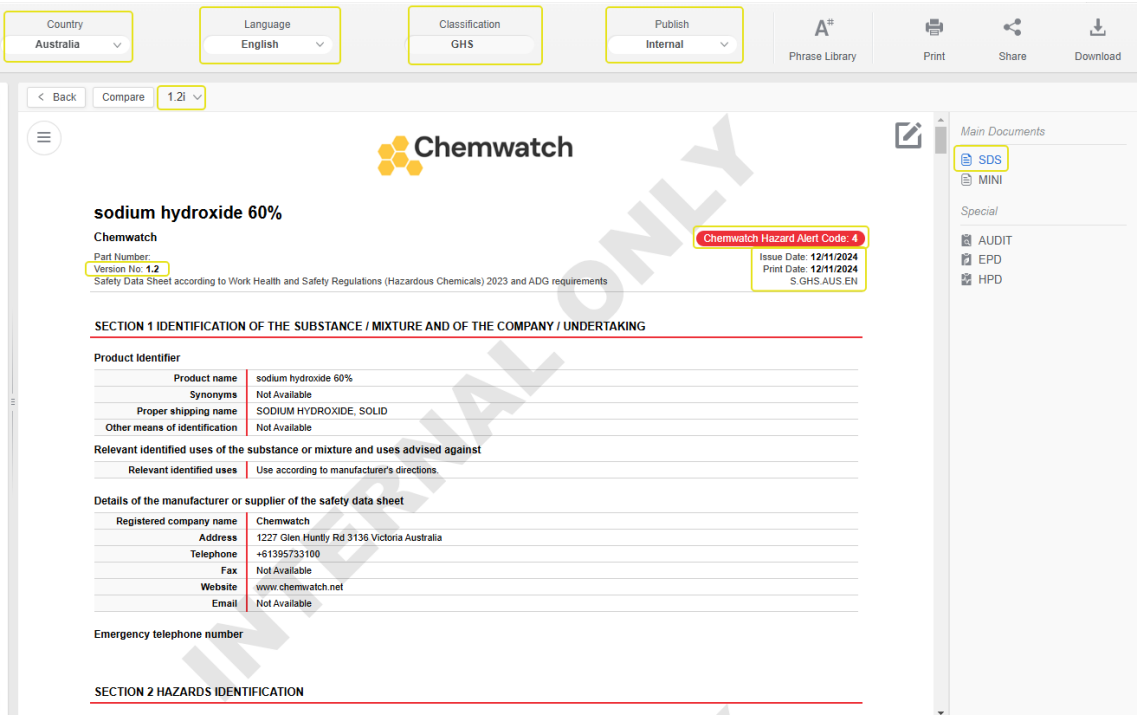

2.1.2 Translated Irritation Data in SDS Section 11 (Skin and Eye)

The system has been upgraded to display the translated irritation data Section 11 (Toxicological Information) in various languages. Data translation is pivotal in ensuring scientific information is inclusive to enhance SDS information in other jurisdictions for a wider global audience of users of the system in the provision of health and safety information, especially for compliance purposes.

Steps to Show Translated Irritation Data in SDS

1. Open **SDS in AuthorITe**.
2. Click on the **SDS Menu**
3. Select **Section 11** to note default language.
4. Change the default **Country and Language** of the SDS by selecting the country and language from the SDS toolbar, e.g., Canada and French, Croatia and Croatian.
5. Click on the **SDS Menu** .
6. Select **Section 11 (** to note **the translated language**.

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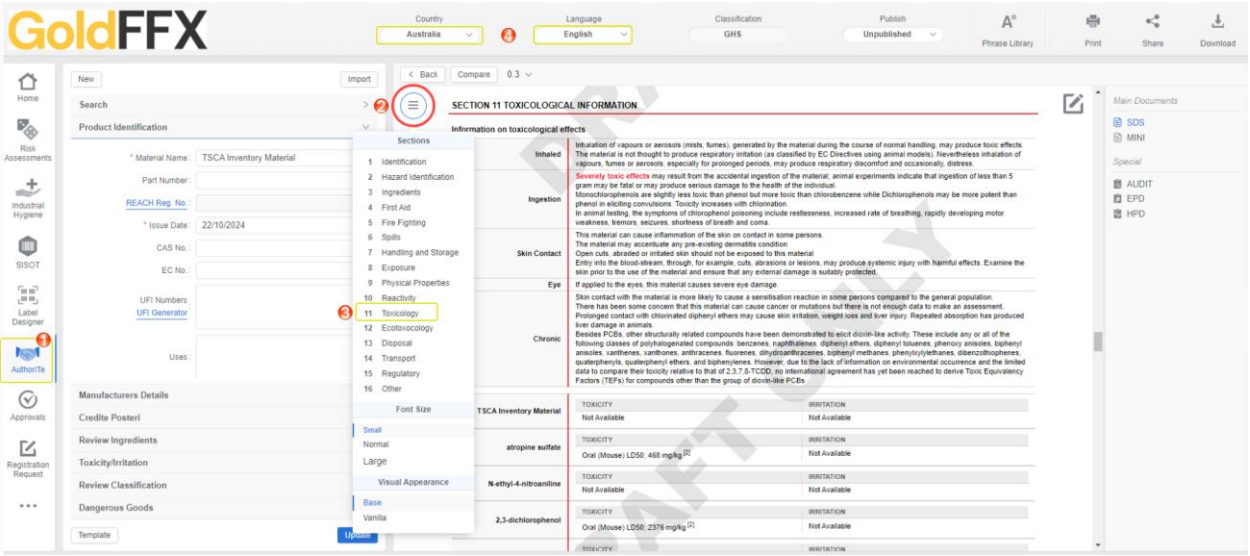
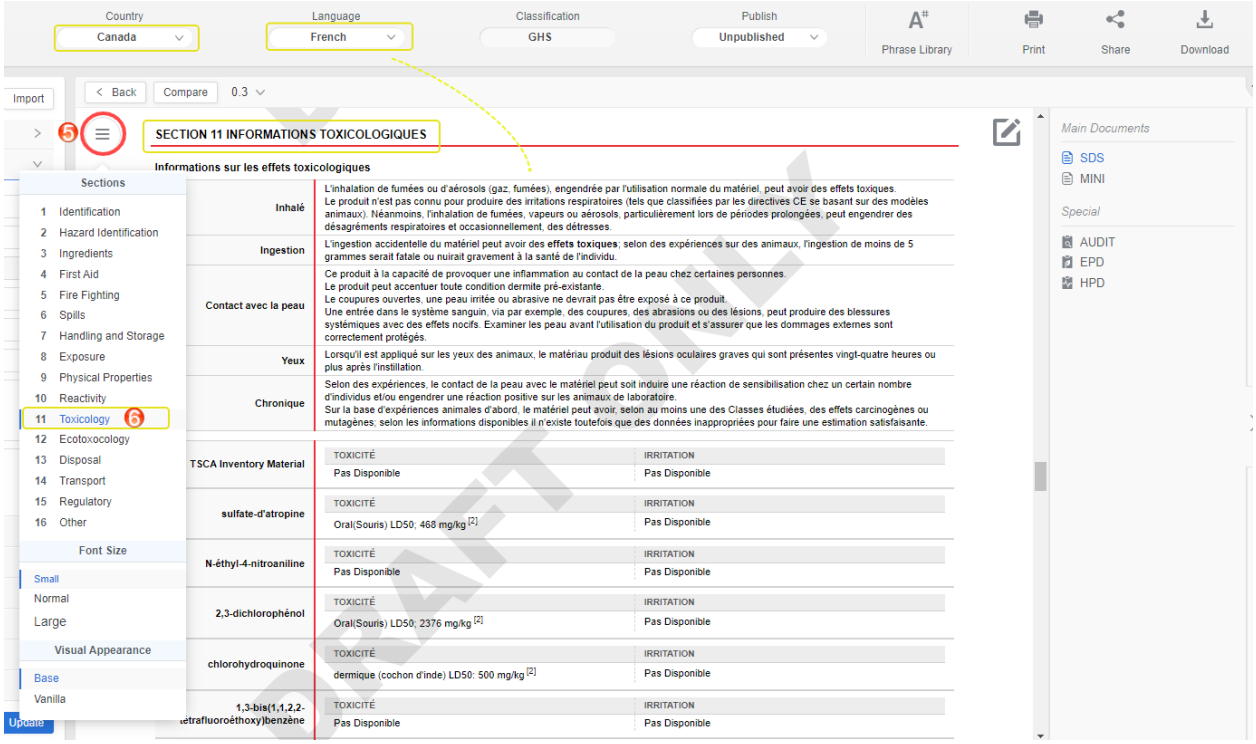


Translated SDS



2.1.3 Re-Mapping Classification Phrases

The system was introduced with new improvements on re-mapping the correct phrases for Section 2.1, Section 3.1 / 3.2 classification phrases in line with the regulations for all jurisdictions.

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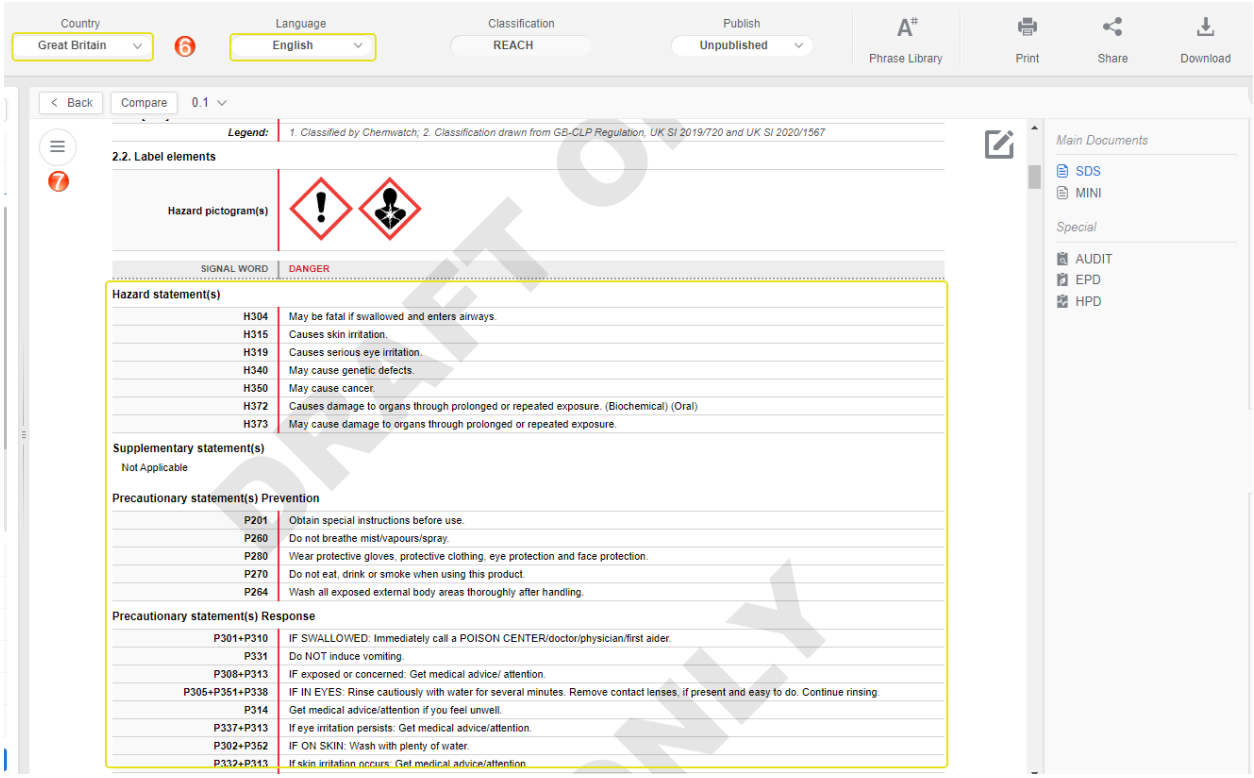
Steps to Show Classification Information in Section 2 of the SDS

1. Open **AuthorITe** module.
2. Hover mouse over **Documents icon** .
3. Select the **SDS icon** SDS to open SDS for the material mixture
4. Click on the **SDS Menu**
5. Select **Section 2** to note default country and language, e.g. Great Britain and English.
6. Change the default **Country and Language** of the SDS by selecting the country and language from the SDS toolbar, e.g., Bulgaria and Bulgarian. Take note of the phrases section 2 of the SDS. Click on the **SDS Menu** .
7. Select **Section 2** of the SDS to note **the translated language and phrases**.

Default Country and Language Display (SDS Section 2 Phrases – Great Britain and English)



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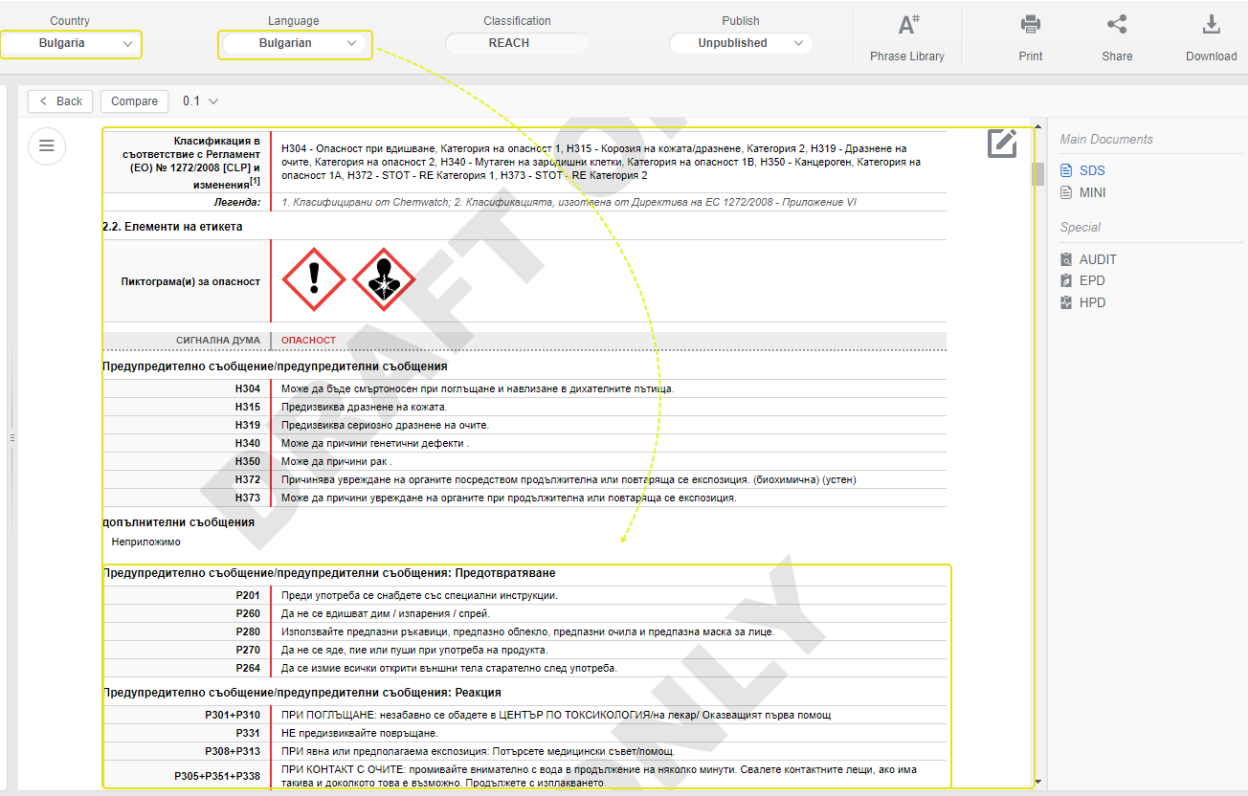
Changed Country and Language Display (SDS Section 2 Phrases – Bulgaria and Bulgarian language)



2.1.4 SDS Template Update for Singapore

Singapore ratified a transition to the 7th edition of the Globally Harmonised System (GHS) in early 2023 in regulation SS 586-3:2022. Chemwatch has implemented changes to the SDS Template for the Singapore SDS to reflect these changes. New data points on the Singapore SDS include:

- Other Hazards subsection in Section 2
- Chemical Formula and Synonyms for ingredient data in Section 3
- Important symptoms and effects in Section 4
- Other toxicological information in Section 11
- Other adverse effects information in Section 12

Steps to Display a Generated Japanese GHS SDS

1. Open **AuthorITe** module.
2. Hover the mouse over the **Documents** .
3. Select the **SDS icon** SDS to open SDS for the material.
4. Check the **Country and Language** toolbar options for Singapore/English and GHS Classification.
7. Click on the **SDS Menu** . Select **Section 3** of the SDS. Note that the phrase in Section 3 has been updated from “Not Applicable” to “Non-hazardous” for the material “Classification” datapoint for any ingredients that have no GHS Hazard Classifications.

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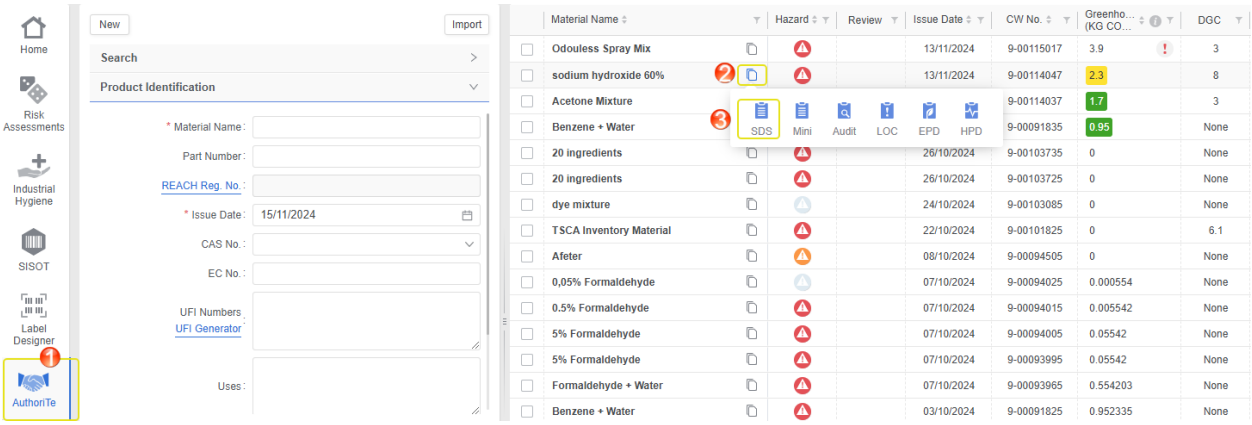
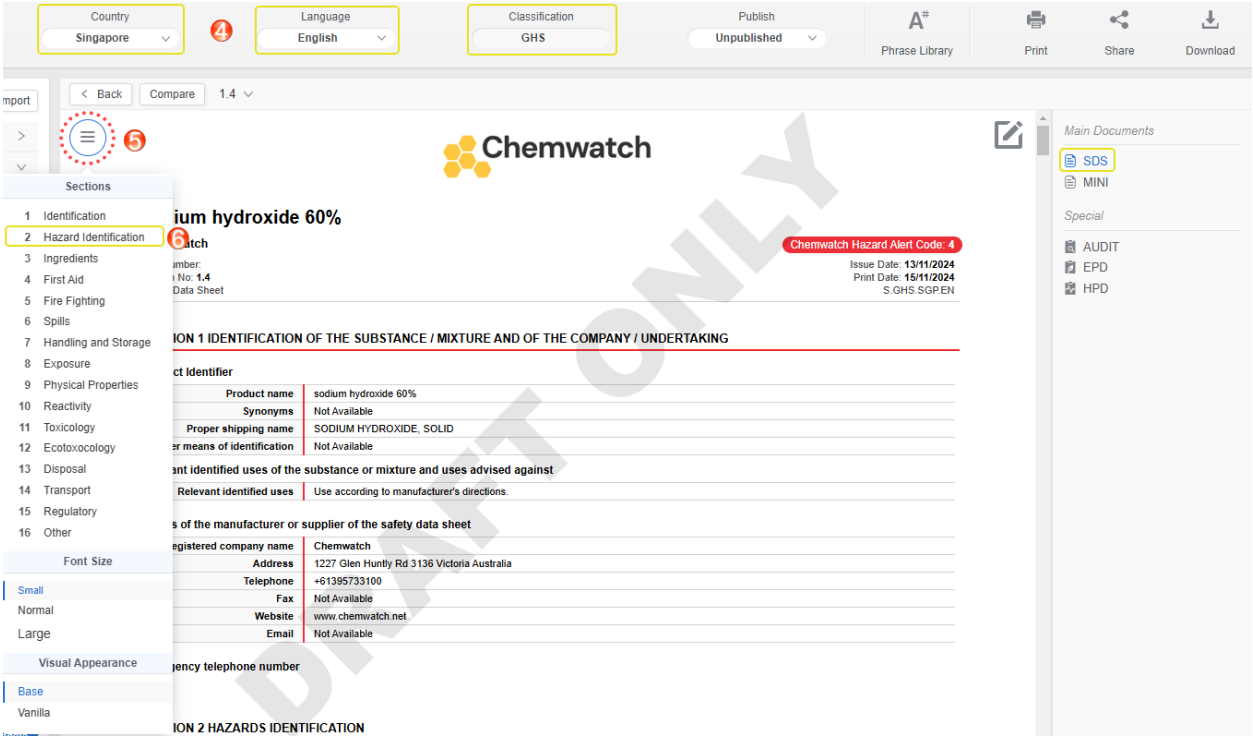
5. Click on the **SDS Menu** .
6. Select **Section 2: Hazards Identification** and scroll down to the subheading "**Other Hazards**".

8. Change the default **Country and Language** of the SDS by selecting the country and language from the SDS toolbar, e.g., Bulgaria and Bulgarian. Click on the SDS Menu to check the same sections of the SDS as before (**Sections 2 and 3**).



Default Country and Language Display (SDS **Section 2 Other Hazards**– Singapore and English).



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SDS **Section 2 Other Hazards**– Singapore and English)

< Back | Compare | 1.4

P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/ attention.
P310	Immediately call a POISON CENTER/doctor/physician/first aider.
P363	Wash contaminated clothing before reuse.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Precautionary statement(s) Storage

P405	Store locked up.

Precautionary statement(s) Disposal

Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

Other Hazards
- Ingestion may produce health damage.*
- Cumulative effects may result following exposure.*

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Substances

See section below for composition of Mixtures

Mixtures

CAS No	%[weight]	Name
1310-73-2	60	sodium hydroxide
14940-65-9	40	water, tritiated

SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: • Immediately hold eyelids apart and flush the eye continuously with running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. • Transport to hospital or doctor without delay.

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Section 3 of the SDS displays the respective composition synonyms and chemical formula.

SECTION 3 Composition / information on ingredients

Substances

See section below for composition of Mixtures

Mixtures

CAS No	% [weight]	Name	Synonyms	Chemical formula
6834-92-0	6.72	sodium metasilicate, anhydrous	Na2SiO3; sodium metasilicate; sodium orthosilicate; disodium metasilicate; sodium silicate; disodium trioxosilicate; silicic acid disodium salt; Blue Meta; Crystamet; disodium monosilicate; Drymet 59; Metso 2048; alkaline degreaser detergent; Vitmet 5	H2O3Si.2Na
1344-09-8	5	sodium metasilicate	Na2SiO3; silicic acid, disodium salt, solid; sodium silicate solid; disodium metasilicate; disodium monosilicate; meta silicate; sodium silicate powder; sodium sesquisilicate; powdered sodium silicate glass; water glass; waterglass; sodium siliconate; sodium water glass; soluble glass; Metso 20 Metso beads; Stauffer Drymet; Orthosil; Crystamet; Crosfield Crystal A, C, M Crosfield Pyramid AP, NL, NP; Metsil; sodium silicate, technical; sodium metasilicate, anhydrous	Na2SiO3
1312-76-1	4.725	potassium silicate	K2-Si-O3; K2O.SiO2; silicic acid, potassium salt; Kasil potassium polysilicate; potassium soluble; potash water; potassium orthosilicate; potassium silicate hydrate [CAS RN: 61869-46-3]; glass welding flux binder detergent; potassium silicate glass	K2SiO3
7732-18-5	83.555	water	dihydrogen oxide; H2O; distilled water; aqua; demineralised water; caustic soda liquid; Aquafina; hydrogen oxide (H2O); UltrexII Ultrapure; 1W001; 1W020; 1W021; 97019; 98989; 124185; Distilled water for Secondary Batteries	H2O

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SECTION 4 FIRST AID MEASURES

Description of first aid measures

Eye Contact	If this product comes in contact with the eyes: • Immediately hold eyelids apart and flush the eye continuously with running water. • Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. • Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. • Transport to hospital or doctor without delay. • Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin or hair contact occurs: • Immediately flush body and clothes with large amounts of water, using safety shower if available. • Quickly remove all contaminated clothing, including footwear. • Wash skin and hair with running water. Continue flushing with water until advised to stop by the Poisons Information Centre. • Transport to hospital, or doctor. • Insert User CPs, e.g., **Wash your hands after use.**
Inhalation	• If fumes or combustion products are inhaled remove from contaminated area. • Lay patient down. Keep warm and rested. • Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures. • Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary. • Transport to hospital, or doctor, without delay. • Inhalation of vapours or aerosols (mists, fumes) may cause lung oedema. • Corrosive substances may cause lung damage (e.g. lung oedema, fluid in the lungs). • As this reaction may be delayed up to 24 hours after exposure, affected individuals need complete rest (preferably in semi-recumbent posture) and must be kept under medical observation even if no symptoms are (yet) manifested. • Before any such manifestation, the administration of a spray containing a dexamethasone derivative or beclomethasone derivative may be considered. **This must definitely be left to a doctor or person authorised by him/her.** (ICSC13719)
Ingestion	• IF SWALLOWED, REFER FOR MEDICAL ATTENTION, WHERE POSSIBLE, WITHOUT DELAY. • For advice, contact a Poisons Information Centre or a doctor. • Urgent hospital treatment is likely to be needed. • In the mean time, qualified first-aid personnel should treat the patient following observation and employing supportive measures as indicated by the patient's condition. • If the services of a medical officer or medical doctor are readily available, the patient should be placed in his/her care and a copy of the SDS should be provided. Further action will be the responsibility of the medical specialist. • If medical attention is not available on the worksite or surroundings send the patient to a hospital together with a copy of the SDS. **Where medical attention is not immediately available or where the patient is more than 15 minutes from a hospital or unless instructed otherwise:** • **INDUCE** vomiting with fingers down the back of the throat, **ONLY IF CONSCIOUS**. Lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration. **NOTE:** Wear a protective glove when inducing vomiting by mechanical means.

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SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled	Inhaling corrosive bases may irritate the respiratory tract. Symptoms include cough, choking, pain and damage to the mucous membrane. There is strong evidence to suggest that this material can cause, if inhaled once, serious, irreversible damage of organs. The degree of absorption into the body depends on solubility and particle size. Insoluble compounds and heavier particles may remain at or near the sites of deposition and may be brought to the throat by ciliary action where they may be swallowed. Sudden inhalation of sodium hydroxide dust may produce fatal outcome such as spasm, inflammation of the throat and airway, burns, severe lung inflammation and fluid accumulated in the lungs These manifest as coughing, wheezing, shortness of breath, headache, nausea and vomiting. A whole body dose of 2-10 Gray may cause loss of appetite, tiredness, nausea and vomiting, most severe after 6-12 hours. After this subsides a gross disturbance in blood cell distribution occurs with loss of white blood cells and platelets over weeks. Inhalation of vapours or aerosols (mists, fumes), generated by the material during the course of normal handling, may be damaging to the health of the individual.
Ingestion	Strong evidence exists that exposure to the material may cause irreversible damage (other than cancer, mutations and birth defects) following a single exposure by swallowing. Ingestion of alkaline corrosives may produce burns around the mouth, ulcerations and swellings of the mucous membranes, profuse saliva production, with an inability to speak or swallow. Both the oesophagus and stomach may experience burning pain; vomiting and diarrhoea may follow. The material is not thought to produce adverse health effects following ingestion (as classified by EC Directives using animal models). Nevertheless, adverse systemic effects have been produced following exposure of animals by at least one other route and good hygiene practice requires that exposure be kept to a minimum. Ingestion of sodium hydroxide may result in severe pain, burns to the mouth, throat, stomach, nausea and vomiting, swelling of the throat and subsequent perforation of the gastro-intestinal tract and suffocation but a 1% solution (pH 13.4) of sodium hydroxide in water failed to cause any damage of the stomach or gullet in rabbits. Accidental ingestion of the material may be damaging to the health of the individual.
Skin Contact	Skin contact with the material may be harmful; systemic effects may result following absorption. The material can produce severe chemical burns following direct contact with the skin. There is strong evidence to suggest that this material, on a single contact with skin, can cause serious, irreversible damage of organs. beta-radiation may produce reddening and colour changes to the skin. Peeling, blistering, ulceration and death of skin tissue may occur. Sodium hydroxide causes burns which may take time to manifest and cause pain, thus care should be taken to avoid contamination of gloves and boots. A 5% aqueous solution of it produces tissue death on rabbit skin while 1% solution caused no effect on irrigated rabbit eye. Open cuts, abraded or irritated skin should not be exposed to this material Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected. Skin contact with alkaline corrosives may produce severe pain and burns; brownish stains may develop. The corroded area may be soft, gelatinous and necrotic; tissue destruction may be deep. A whole body dose of 2-10 Gray may cause loss of appetite, tiredness, nausea and vomiting, most severe after 6-12 hours. After this subsides a gross disturbance in blood cell distribution occurs with loss of white blood cells and platelets over weeks.
Eye	If applied to the eyes, this material causes severe eye damage. Direct eye contact with corrosive bases can cause pain and burns. There may be swelling, epithelium destruction, clouding of the cornea and inflammation of the iris. Mild cases often resolve; severe cases can be prolonged with complications such as persistent swelling, scarring, permanent cloudiness, bulging of the eye, cataracts, eyelids glued to the eyeball and blindness. beta-radiation produces severe inflammation of the eyelid tissue and eye surface. The lens is especially sensitive, and cataracts can occur after a delay of months to years.

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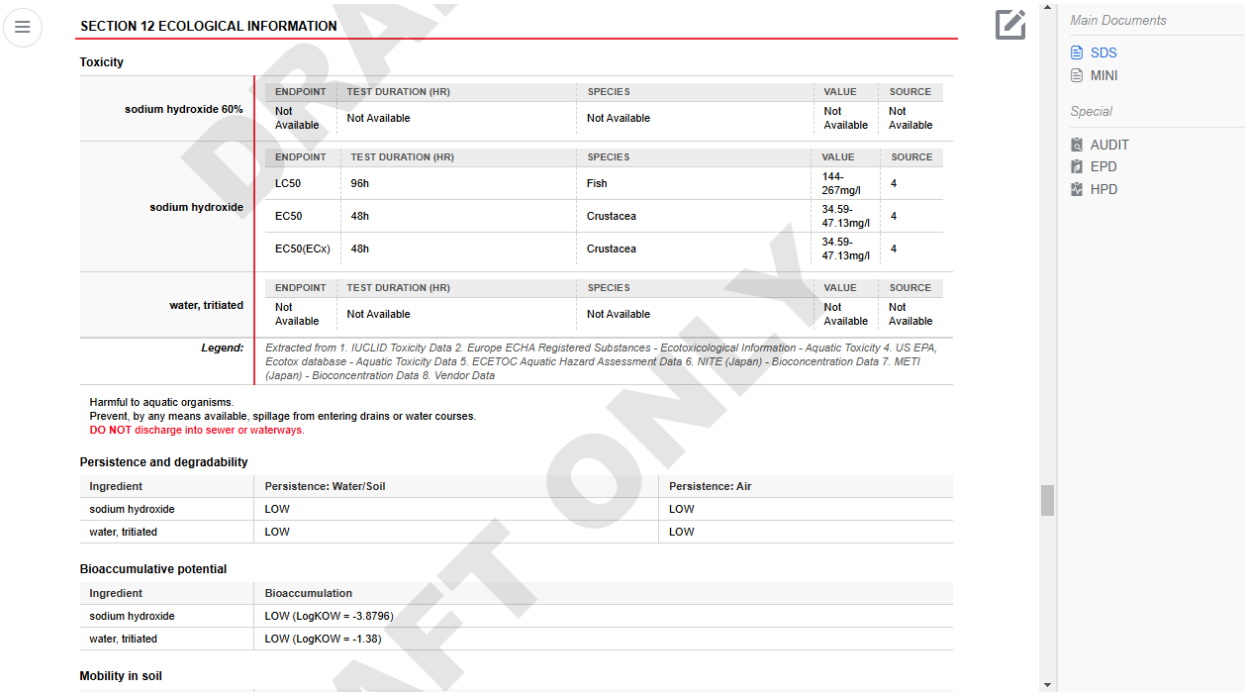

SECTION 12 ECOLOGICAL INFORMATION

Toxicity

	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
sodium hydroxide 60%	Not Available	Not Available	Not Available	Not Available	Not Available
sodium hydroxide	LC50	96h	Fish	144-267mg/l	4
	EC50	48h	Crustacea	34.59-47.13mg/l	4
	EC50(ECx)	48h	Crustacea	34.59-47.13mg/l	4
water, tritiated	Not Available	Not Available	Not Available	Not Available	Not Available

Legend: *Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data*

Harmful to aquatic organisms.
Prevent, by any means available, spillage from entering drains or water courses.
DO NOT discharge into sewer or waterways.

Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
sodium hydroxide	LOW	LOW
water, tritiated	LOW	LOW

Bioaccumulative potential

Ingredient	Bioaccumulation
sodium hydroxide	LOW (LogKOW = -3.8796)
water, tritiated	LOW (LogKOW = -1.38)

Mobility in soil

2.1.5 Non-Alphabetical Inputs into Product Identification Tab

Products in non-English characters in the AuthorITe Product Identification tab's intended use are now supported. Initially, the SDS would block the display of this input in the associated "Relevant Identified Uses" field in Section 1 and default to display "Use according to manufacturer's directions". The system has been implemented to allow the display of these non-English characters on the SDS directly from the Product Identification "Uses" field. This input will display exactly as is for all SDS languages (the input phrase in the "Product Identification Uses" field will not automatically translate when the SDS language is changed).

Steps to Show Product Uses Data in Section 1 of the SDS in other Language Characters

1. Open **SDS in AuthorITe** and open SDS.
2. Click on the **SDS Menu**
3. Select the **Product Identification** tab.
4. Type the product uses in the **Uses** field of the form.
5. **Save/Update** Credo form.
6. Click on the **SDS Menu** .
7. Select **Section 1** to display SDS Uses information in other languages/characters.
8. Relevant uses identified in other language characters.

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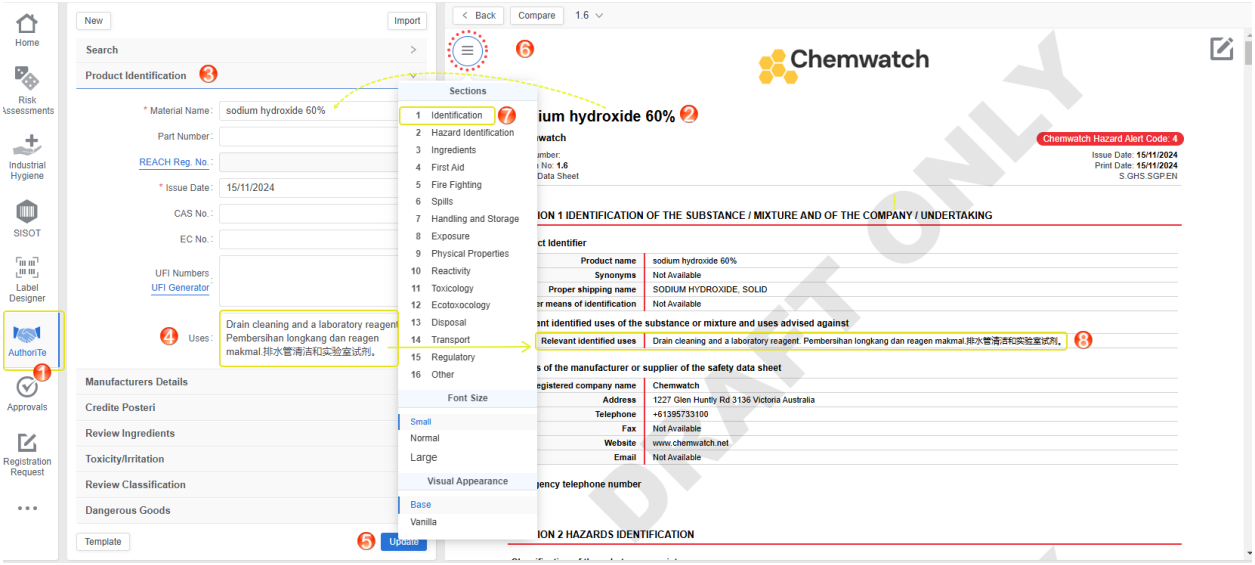
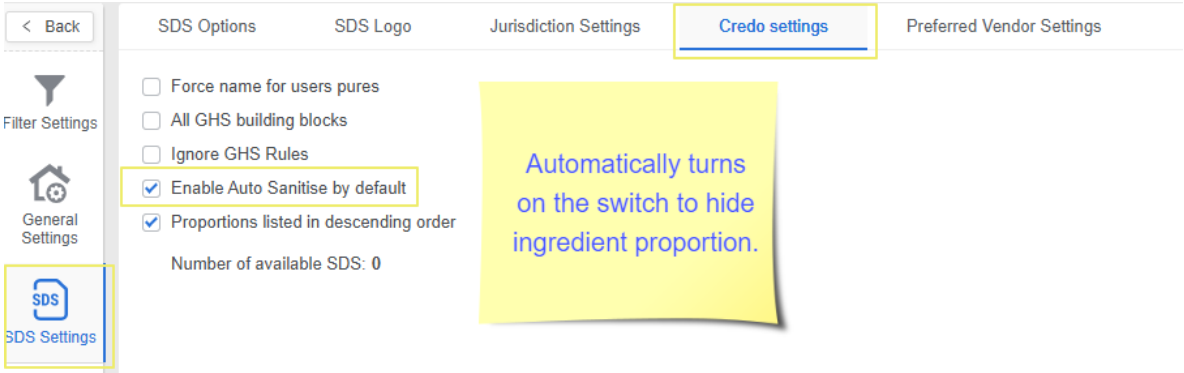


2.1.6 Auto-Sanitise SDS Setting

Chemwatch has introduced a new setting called "**Enable Auto Sanitise by default**" in the SDS Settings module. This setting automatically turns on the "Sanitise View" and "Auto" switches in the AuthorITe module's "Review Ingredients tab.



Sanitise View allows users to "mask" the true proportion or identity of ingredients in a mixture, which SDS authors may want to do to protect confidential business information under the claim of a trade secret.

The Auto Sanitise setting is administered by the domain administrator, who grants applicable AuthorITe module permissions and privileges to users responsible for authoring SDSs.

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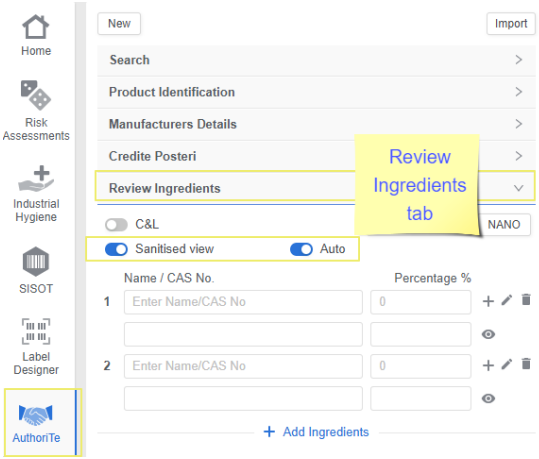

The Review Ingredients tab enables users to input specific data for the material calculation based on GHS or C&L (EU). The Sanitise and/or Auto Sanitise feature hides the formulation of the mixture's ingredients and proportions.

Hide/Unhide Sanisation (Optional)

The **Hide/Unhide** icon enables users to hide or unhide the ingredient/composition. Note that when reviewing ingredients and hiding them triggers a message advising not to sanitise those ingredients. In the following exercise, this feature is ignored.

The illustration below shows how to auto-sanitise a mixture after applying thee Auto Sanitise Setting in the SDS AuthorITe Settings mode.

Steps to Auto Sanitise SDS Ingredients

1. Click the **AuthorITe** module button .
2. Select the **Material/Mixture** of the SDS from the grid list.
3. Open **Review Ingredients** tab by clicking on the header/forward arrow .
4. Use the C&L switch to apply EU Classification if applicable. In this case, the default **GHS** classification is used.
5. Select the **Sanitised View** switch to turn it on. By turning on the switch, it displays the Auto switch to modify the names of the ingredients and concentration automatically.
6. Click on the **Auto** switch to add further details.
7. Select the **Ingredient Name**(s) text field(s) to enter sanitisation name(s).
8. Enter the **Sanitisation** percentage value range in the **Percentage (%)** text field.
9. Click the **Update** button Update to save changes.
10. Go to Section 3 of the authored SDS to concur that changes have taken effect based on the data input.

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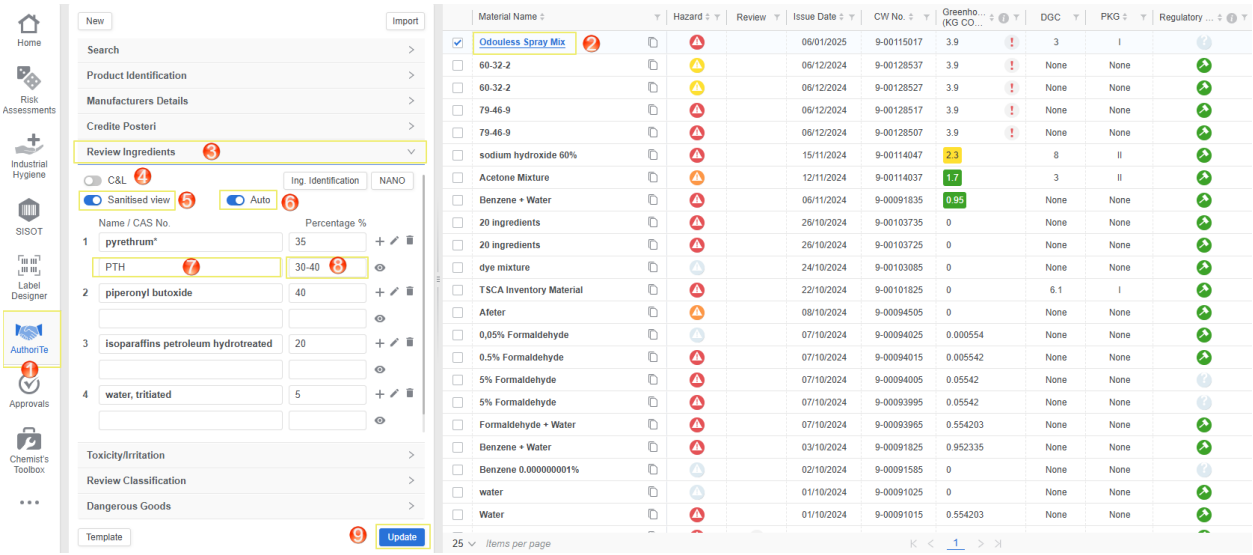
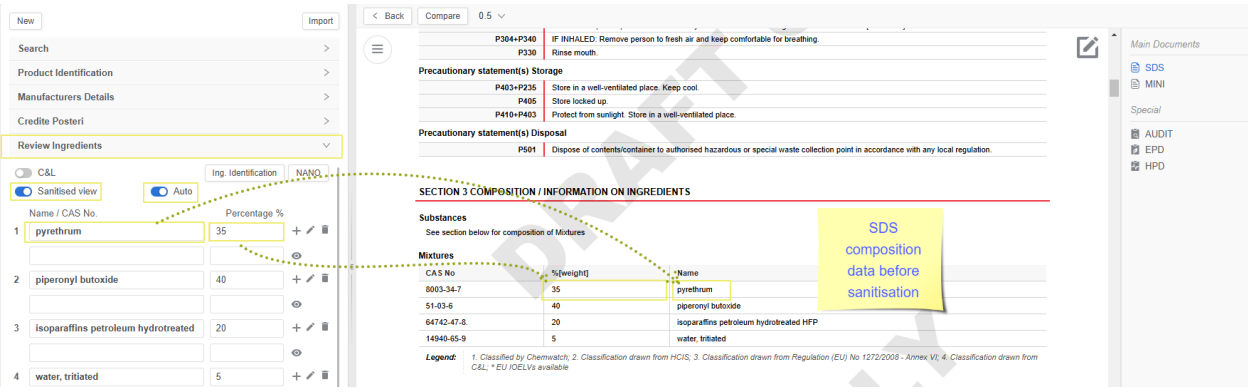
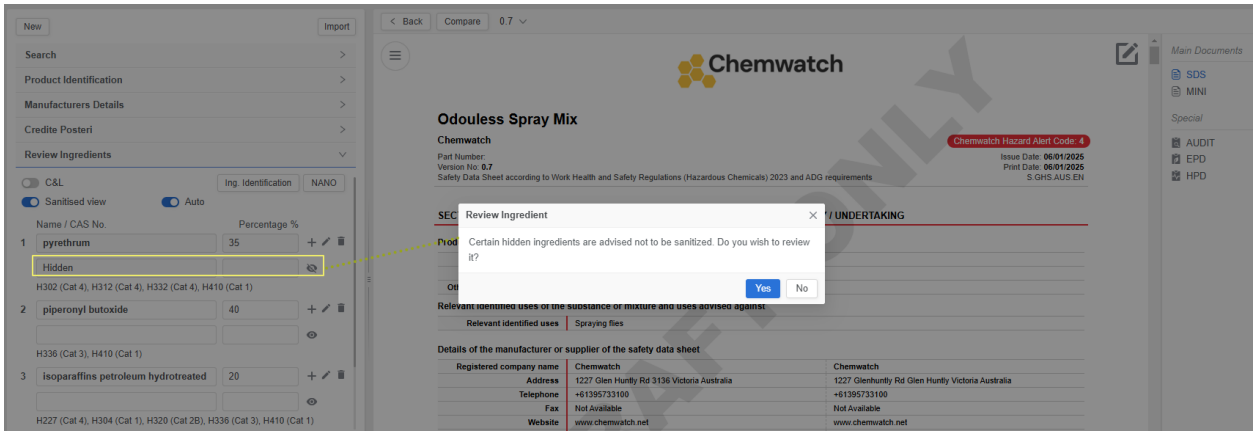


Before Ingredient Sanitisation



Hiding/Unhiding Sanitised Ingredient



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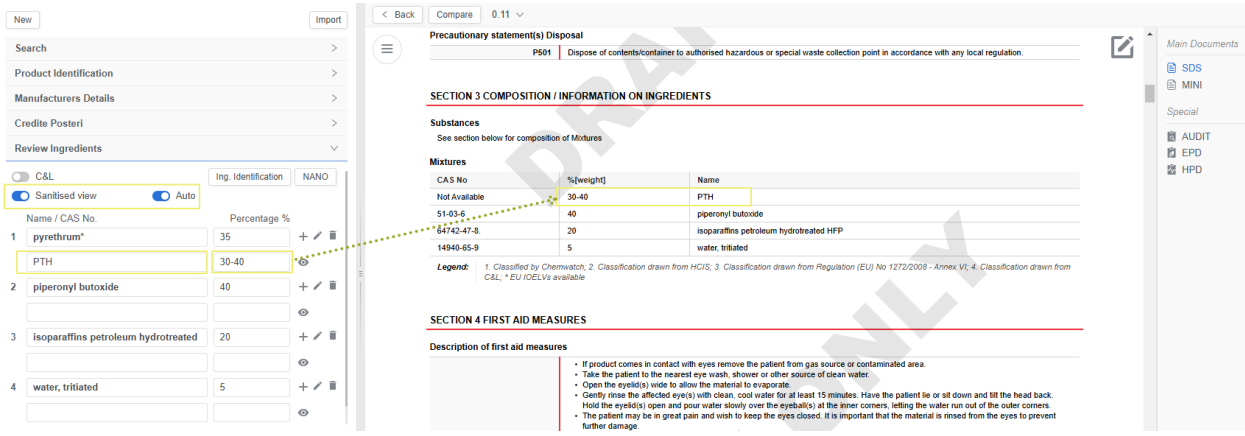
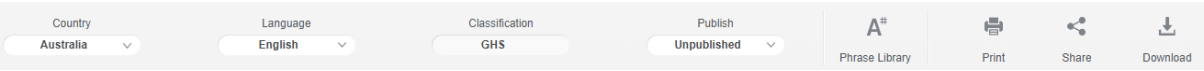
After Sanitisation of Ingredient



2.2 AuthorITe Toolbar and Other Attributes

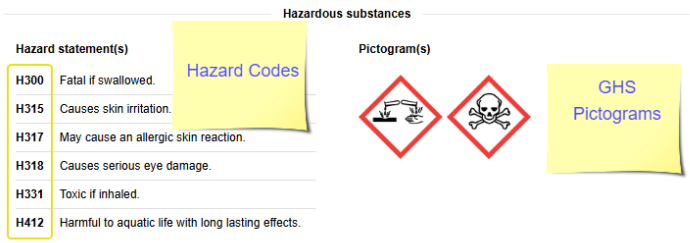
Toolbar

The toolbar offers users the ability to change country, language, publish, use the phrase library CPs, print, share or download the document.



Hazard (H) Codes and DG Classification Information Display

The hazard icon provides a hazard summary view of the material. The colour coded icons reflect the alert system for users to be informed of the nature of the hazard and its level of rating of the hazardous chemical a part of the hazard communication best practice and compliance to workplace health and safety. Hazard statements are collated based on GHS hazard classification. Hazard statement is coded with the letter H followed by 3 digits which represents the hazard rating statement as per the hazard classification standard.



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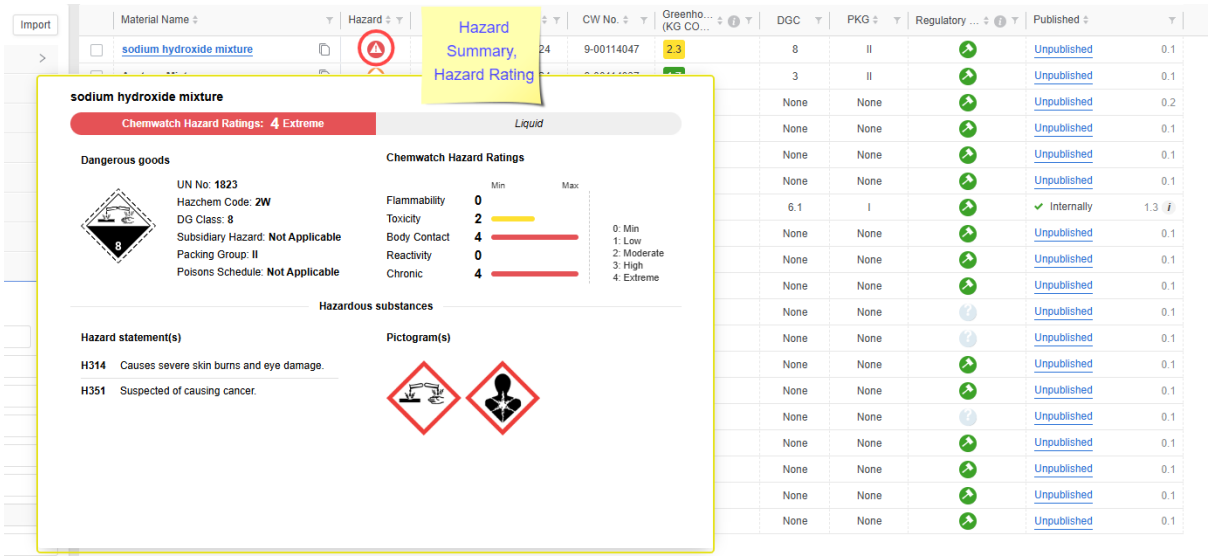
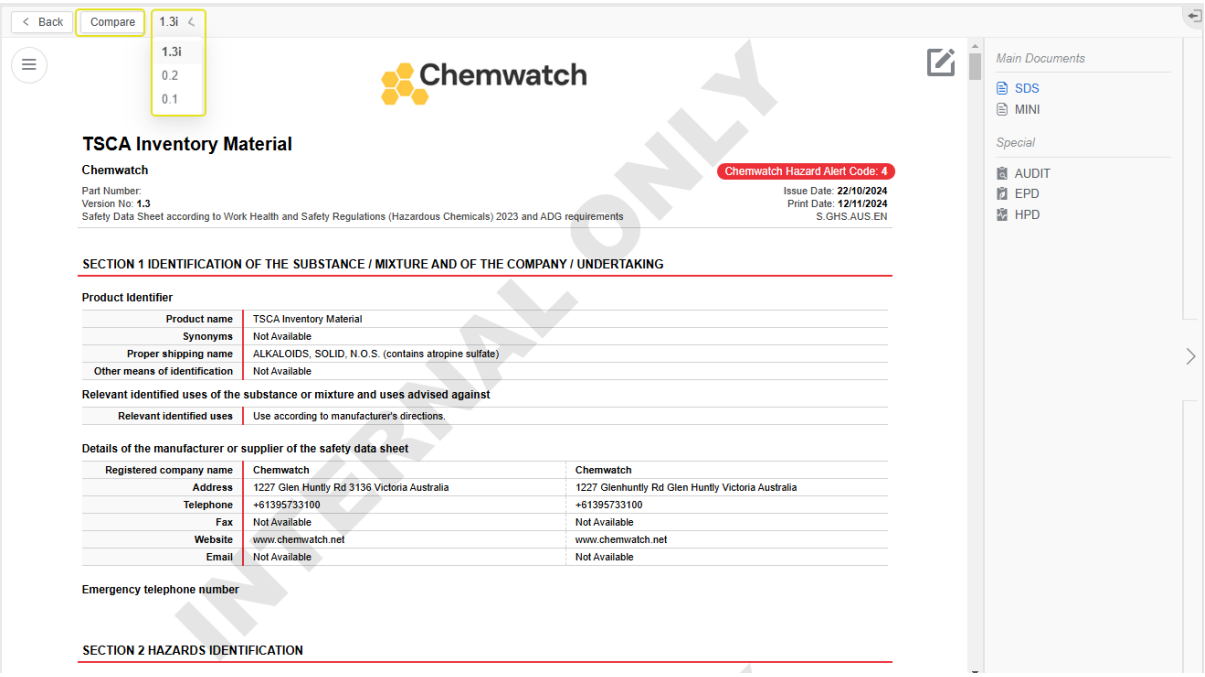


Compare Document Versions Function

The **Compare** feature provides users the opportunity to review first and second document versions.



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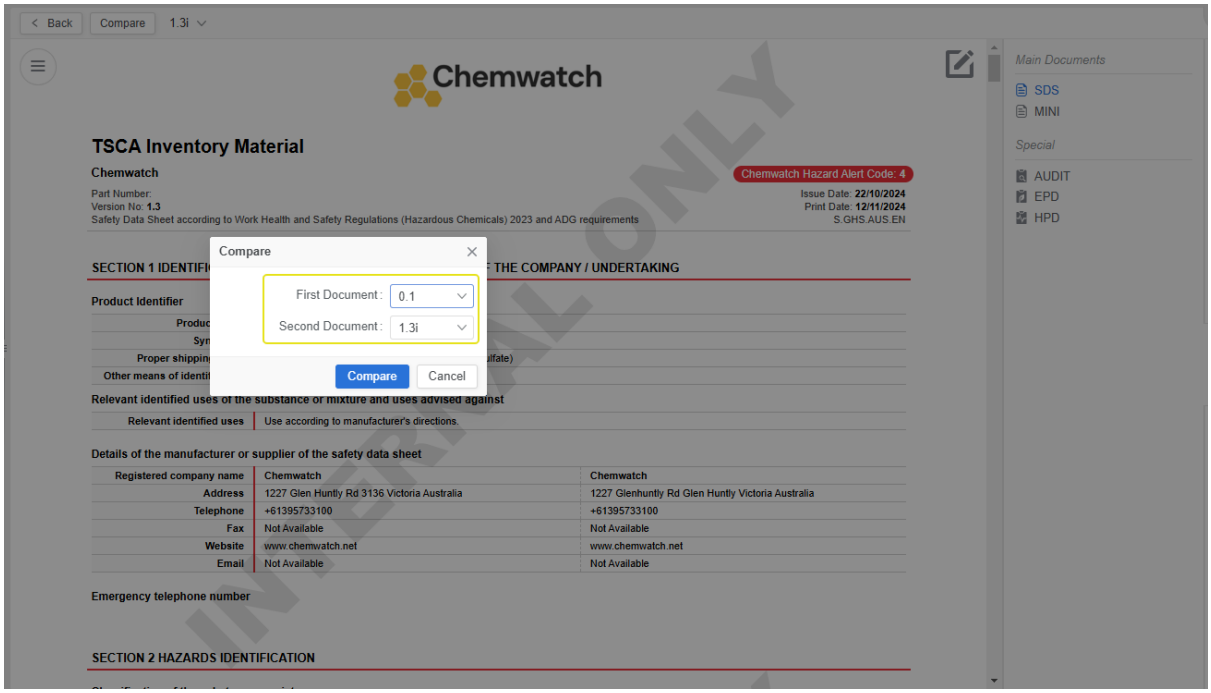
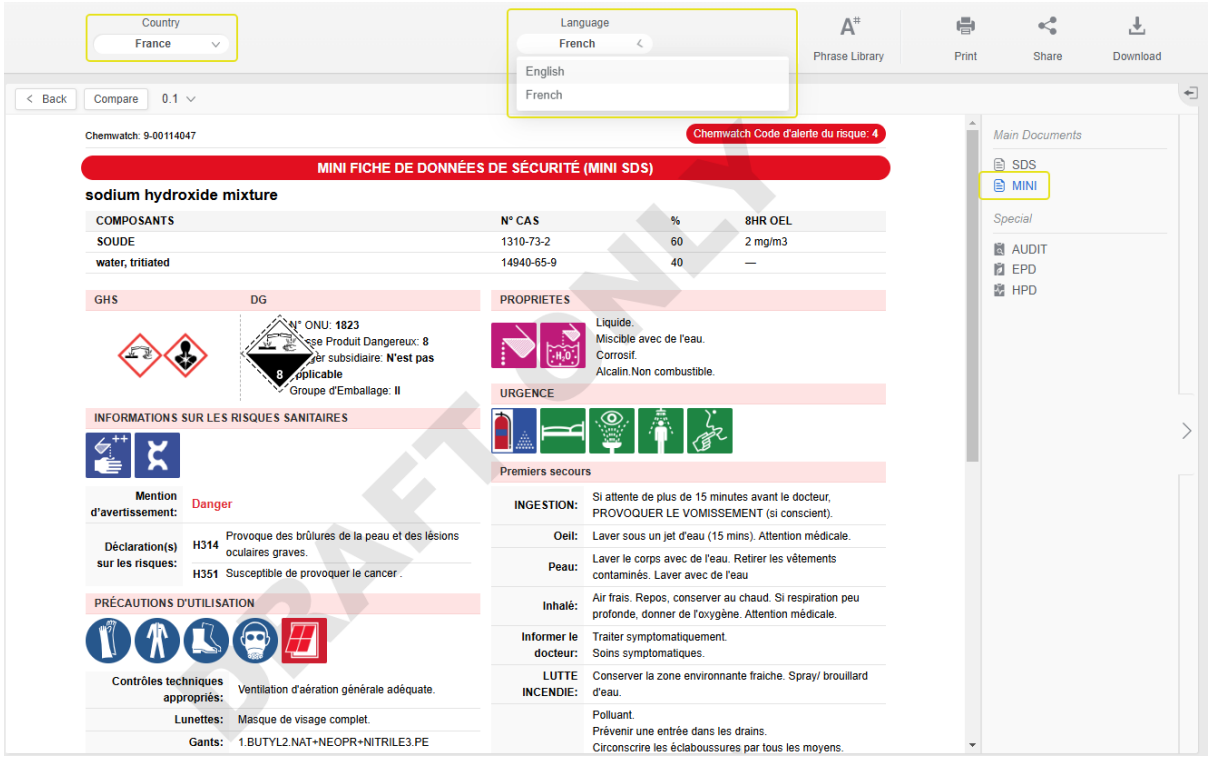


Display Mini SDS Language

Selecting a respective **Country** dropdown to choose a specific country from the list of countries directly links to the official country **Language(s)** of the selected country, e.g., Country = France, the language is mapped to French as the primary official language and English.



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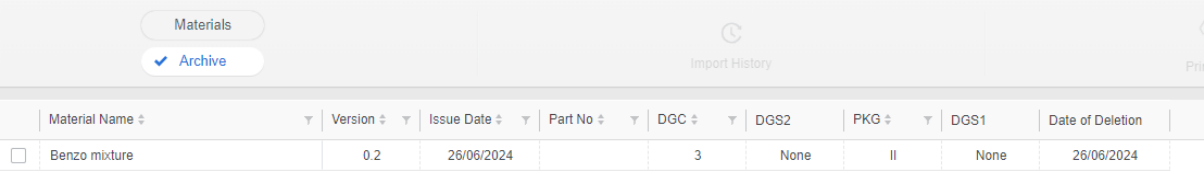
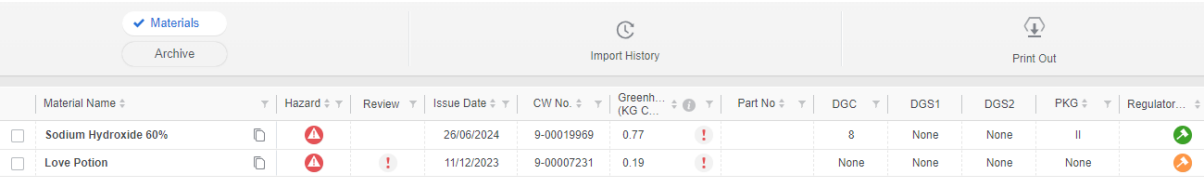
Archived Material Mixtures

Select the **Archive** button from the toolbar to show any archived (deleted/removed) material mixture(s) from the CREDO module only.



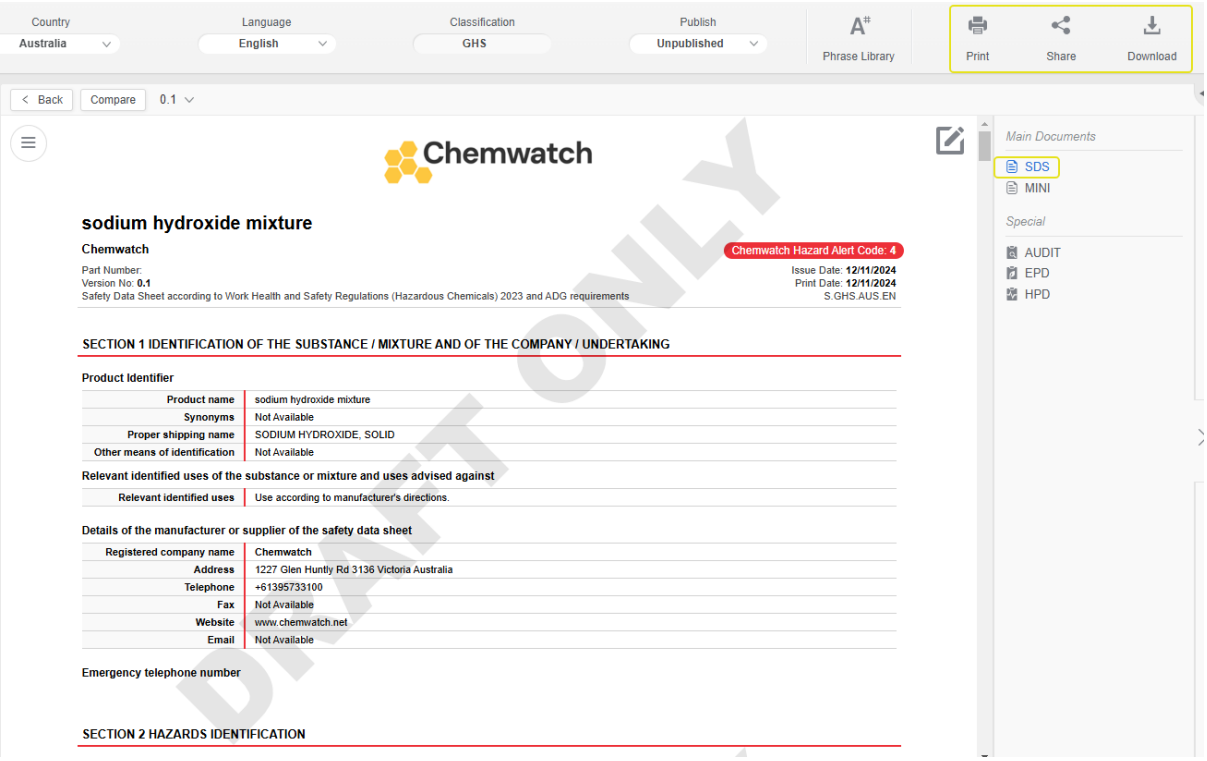
Materials Button in the Toolbar

Select the **Materials** button from the Credo toolbar to go back to the current material name grid view.



Print, Share, Download

When viewing a document/report, use the **Print, Share** or **Download** options from the toolbar to generate reports.



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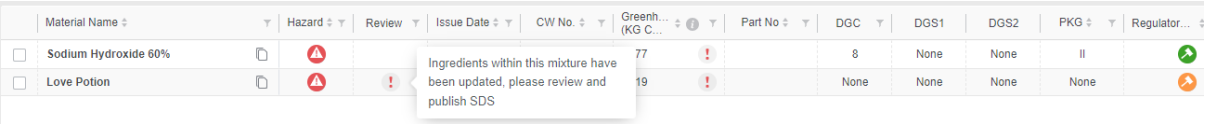
Exclamation Mark for a Generated Mixture

The grid may show an exclamation mark icon displayed for a mixture to find out more information related to an update about the mixture or ingredient updated, which may affect the overall hazard rating of your material mixture.



Update on Regulation ABNT NBR for Brazil SDS

The Brazil SDS is implemented to reflect the updates provisions given by the July 2023 NB14725:2023 regulation, which replaces the 2104 NBR 14725:2014. The NB14725:2023 moves the Brazil SDS to the 7th Revision Edition of the Globally Harmonised System (GHS). The Chemwatch system now allows users to classify GHS hazards for desensitised Explosives (H206, H207, H208), subcategories 1A, 1B and 2 for Flammable Gaes (H220, H221) for the Brazil SDS. This update also adjusts the concentration limits for mixture classification of the following categories.

- Skin Sensitisation Category 1 (H317)
- Respiratory Sensitisation Category 1 (H334)
- Carcinogenicity Category 2 (H351)
- Reproductive Toxicity Categories 1A, 1B (H360, and 2 (H361), and Lactation Effects (H362) for the Brazil SDS in line with 2023 regulation

Steps to Display a Generated Brazil GHS SDS Regulation ABNT 14725-4:2023

1. Open **AuthorITe** module.
2. Hover the mouse over the **Documents** alongside the material/mixture name from the grid.
3. Select the **SDS icon** SDS to open SDS for the material.
4. Click on the **Country dropdown** arrow from the toolbar to look up the country.
5. Select **Country Brazil** to apply to the SDS.
6. The regulation update is reflected in the SDS header section as shown below.

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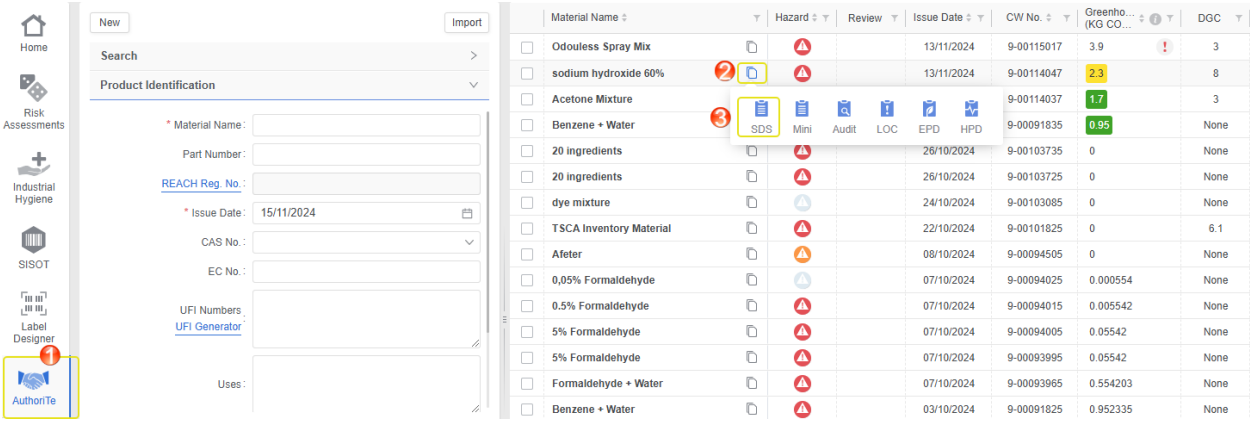

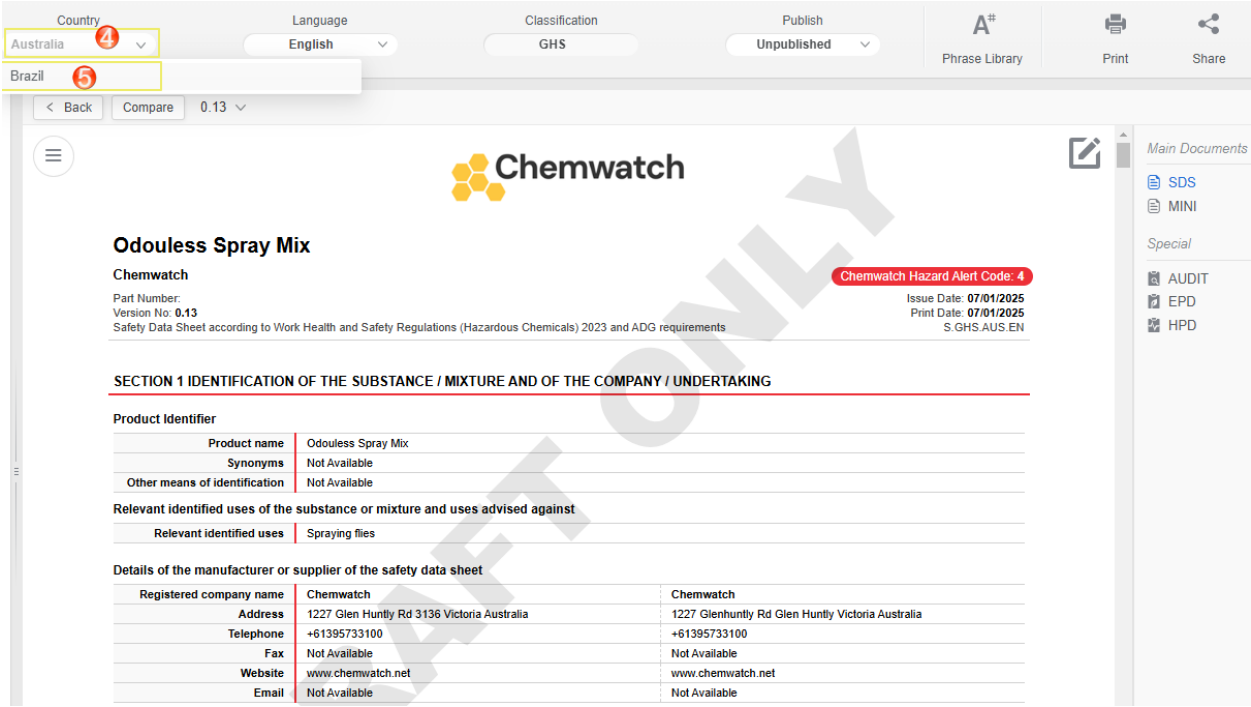

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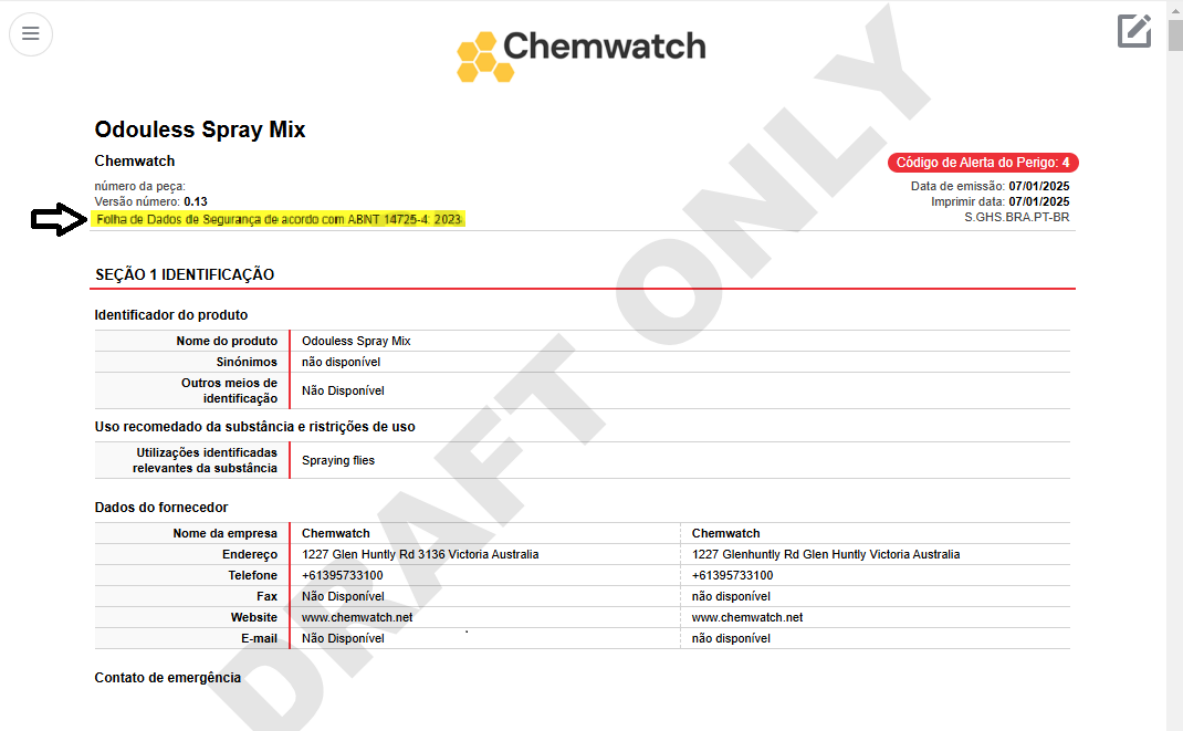


Chemwatch

Odouless Spray Mix

Chemwatch

número da peça:
Versão número: **0.13**
Folha de Dados de Segurança de acordo com ABNT 14725-4. 2023.

Código de Alerta do Perigo: 4
Data de emissão: **07/01/2025**
Imprimir data: **07/01/2025**
S.GHS.BRA.PT-BR

SEÇÃO 1 IDENTIFICAÇÃO

Identificador do produto

Nome do produto	Odouless Spray Mix
Sinónimos	não disponível
Outros meios de identificação	Não Disponível

Uso recomedado da substância e ristrições de uso

Utilizações identificadas relevantes da substância	Spraying flies

Dados do fornecedor

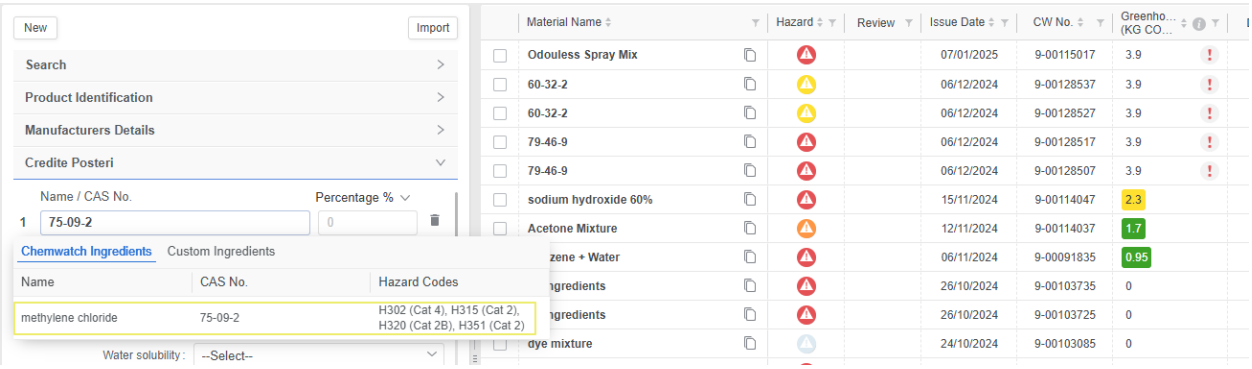
Nome da empresa	Chemwatch	Chemwatch
Endereço	1227 Glen Huntly Rd 3136 Victoria Australia	1227 Glenhuntly Rd Glen Huntly Victoria Australia
Telefone	+61395733100	+61395733100
Fax	Não Disponível	não disponível
Website	www.chemwatch.net	www.chemwatch.net
E-mail	Não Disponível	não disponível

Contato de emergência

DRAFT ONLY

Addition of TSCA Disclaimer for USA SDS that Contain Methylene Chloride (CAS 75-09-2)

The United States 40 Code of Federal Regulations (CFR) § 751.111 now require any USA SDSs containing < or =0.1 w/w% methylene chloride (CAS 75-09-2) to display a Statement in Section 1 and Section 15 of the SDS. These recent changes have been implemented in the Chemwatch system to reflect this Statement on the United States template.



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US TSCA Statement: Section 1 United States SDS for Methylene Chloride

SECTION 1 Identification

Product Identifier

Product name	METHYLENE CHLORIDE
Chemical Name	Not Available
Synonyms	C-H2-Cl2; dichloromethane; methylene bichloride; methylene dichloride; NCI-C50102; methane dichloride; Aerothene MM; DCM; Freon 30; Solaesthin; Solmethine; Narkotil; RCRA Waste Number U080 R 30; Restek Grob Test Mix; 24/R1325; Product Code 270563; dichloromethane, 99.9%, ACS, HPLC grade; dichloromethane, methylene chloride
Proper shipping name	Dichloromethane
Chemical formula	CH2Cl2
Other means of identification	Not Available
CAS number	75-09-2

Recommended use of the chemical and restrictions on use

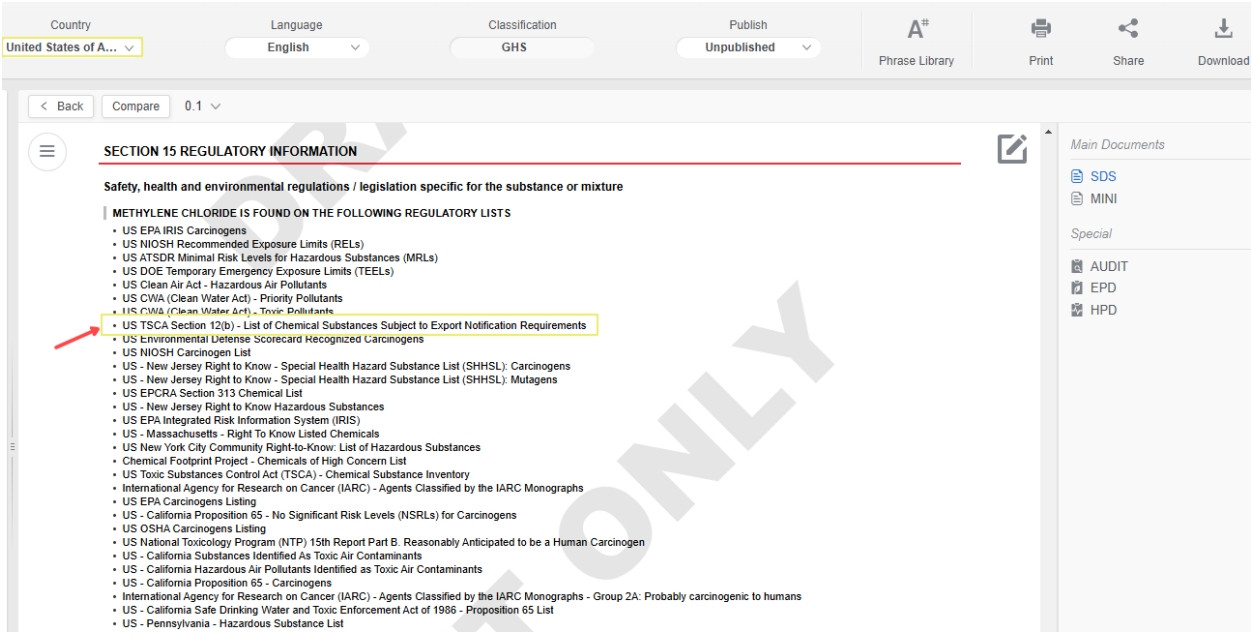
Relevant identified uses	Solvent for cellulose acetate, plastics and fats. Component of degreasing agents, cleaning fluids and paint removers. A blowing agent in foams, as an aerosol propellant, and a cooling solvent. The use of a quantity of material in an unventilated or confined space may result in increased exposure and an irritating atmosphere developing. Before starting consider control of exposure by mechanical ventilation.

US. TSCA Regulation of Certain Chemical Substances and Mixtures Under Section 6 of the Toxic Substances Control Act

After February 3, 2025, this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers. After January 28, 2026, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of methylene chloride equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant; (2) Processing for incorporation into a formulation, mixture, or reaction product; (3) Processing for repackaging; (4) Processing for recycling; (5) Industrial or commercial use as a laboratory chemical; (6) Industrial or commercial use as a bonding agent for solvent welding; (7) Industrial and commercial use as a paint and coating remover from safety critical, corrosion-sensitive components of aircraft and spacecraft; (8) Industrial and commercial use as a processing aid; (9) Industrial and commercial use for plastic and rubber products manufacturing; (10) Industrial and commercial use as a solvent that becomes part of a formulation or mixture, where that formulation or mixture will be used inside a manufacturing process, and the solvent (methylene chloride) will be reclaimed; (11) Industrial and commercial use in the refinishing for wooden furniture, decorative pieces, and architectural fixtures of artistic, cultural or historic value until May 8, 2029; (12) Industrial and commercial use in adhesives and sealants in aircraft, space vehicle, and turbine applications for structural and safety critical non-structural applications until May 8, 2029; (13) Disposal; and (14) Export

Background Information for DCM and Common Uses

Methylene Chloride, also known as Dichloromethane (DCM) is an organic compound with the formula CH_2C_{12}. It is a colourless, volatile liquid with a moderately sweet aroma widely used as a solvent, in paint strippers and removers, a propellant in aerosols for paint products, automotive and insect sprays. It is miscible with organic solvents, but it is not miscible with water. The Chemical "Methylene Chloride" is found on many Regulatory Lists, e.g., TSCA (USA), where the chemical is subject to export notification requirements, Toxic Substances Control Act – Chemical Inventory List and the information is listed in Section 15 of the SDS.



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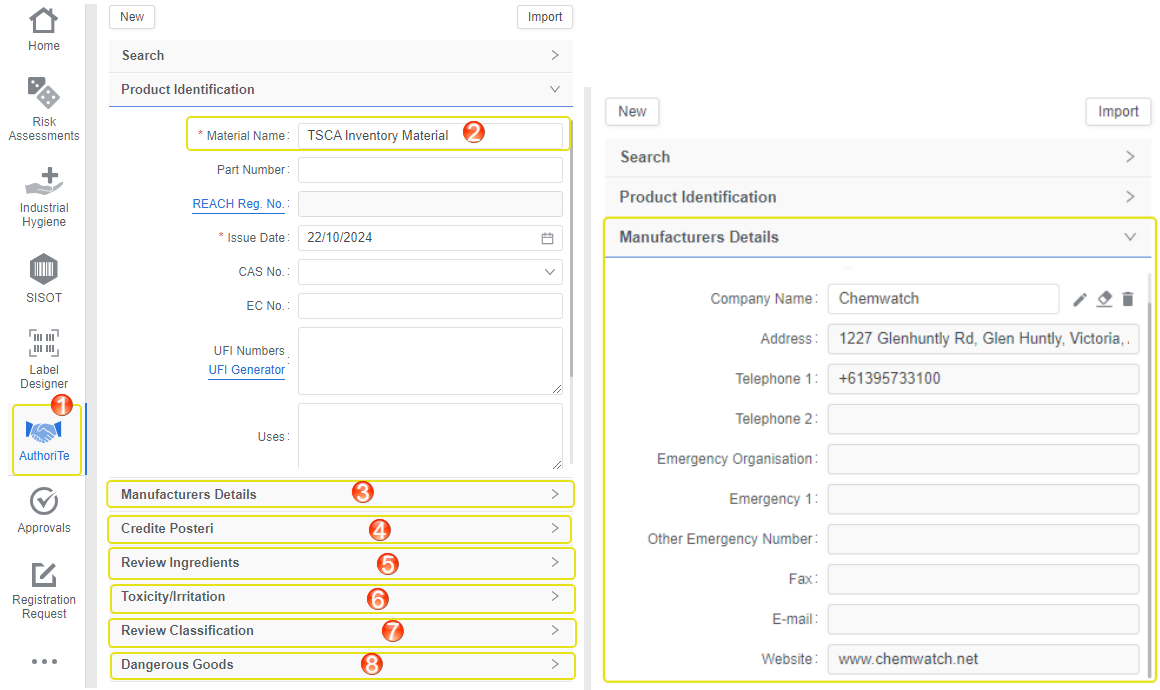
Improved TSCA Inventory Status

In the 2023 regulatory updates, substances listed as "active" on the TSCA Inventory can now be manufactured, imported, or processed without prior notification. On the other hand, substances classified as "inactive" must be reported to the US EPA before use. Previously, a substance could be marked with a "Yes" for TSCA compliance while being inactive, but now the system will explicitly label substances as either "Active" or "Inactive" on the TSCA Inventory within the SDS. The inventory, which includes over 86,000 chemicals, encompasses organics, inorganics, polymers, and UVCBs (unknown or variable composition, complex reaction products, and biological materials). The TSCA Inventory is a key tool for regulating most industrial chemicals in the U.S.

Steps to the USA-TSCA on SDS

1. Open **AuthorITe** module .
2. Enter Material Name of the mixture in the **Product Identification** field of the form.
3. Enter **Manufacturer's Details** in the Manufacturers Details fields of the form.
4. Provide the **Ingredients** of the material mixture and the respective % composition in the **Credite Posteri (Physical Properties)** fields of the form.
5. Select the **Review Ingredients tab** to review ingredients and respective composition for the material mixture.
6. Enter **Toxicity/Irritation** information where applicable for oral, dermal or inhalation.
7. **Review Classification** (GHS).
8. Enter **Dangerous Goods** details in the Dangerous Goods fields.
9. Press the **Submit** button Submit to save the mixture and generate draft SDS.



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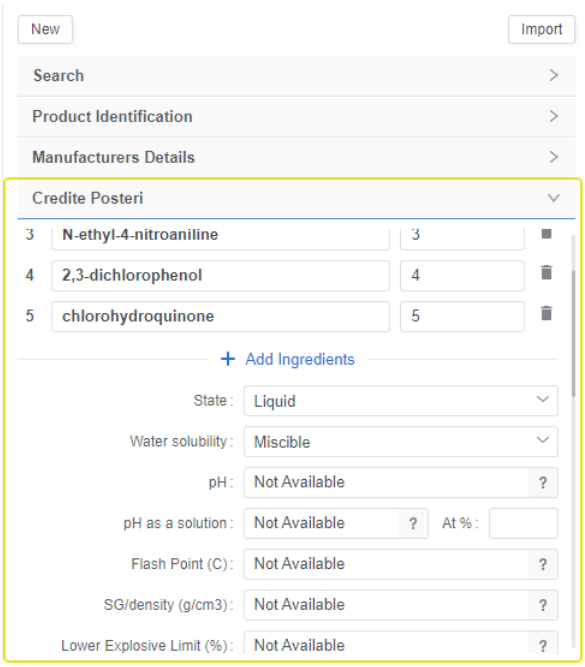
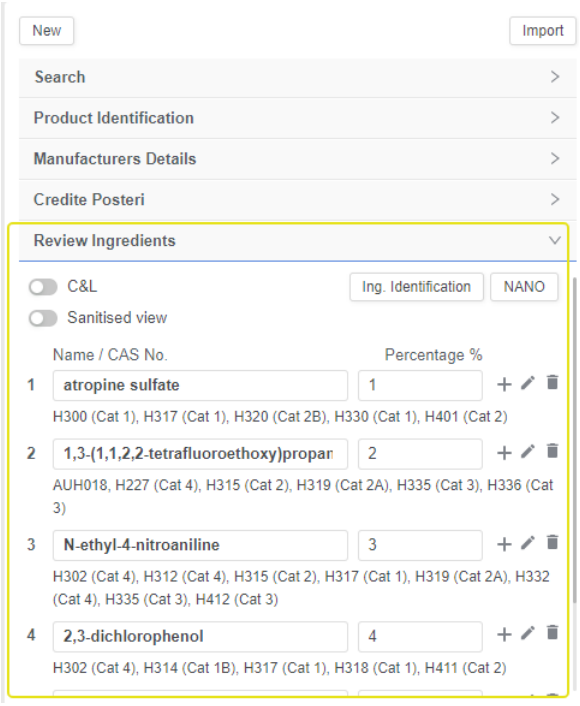
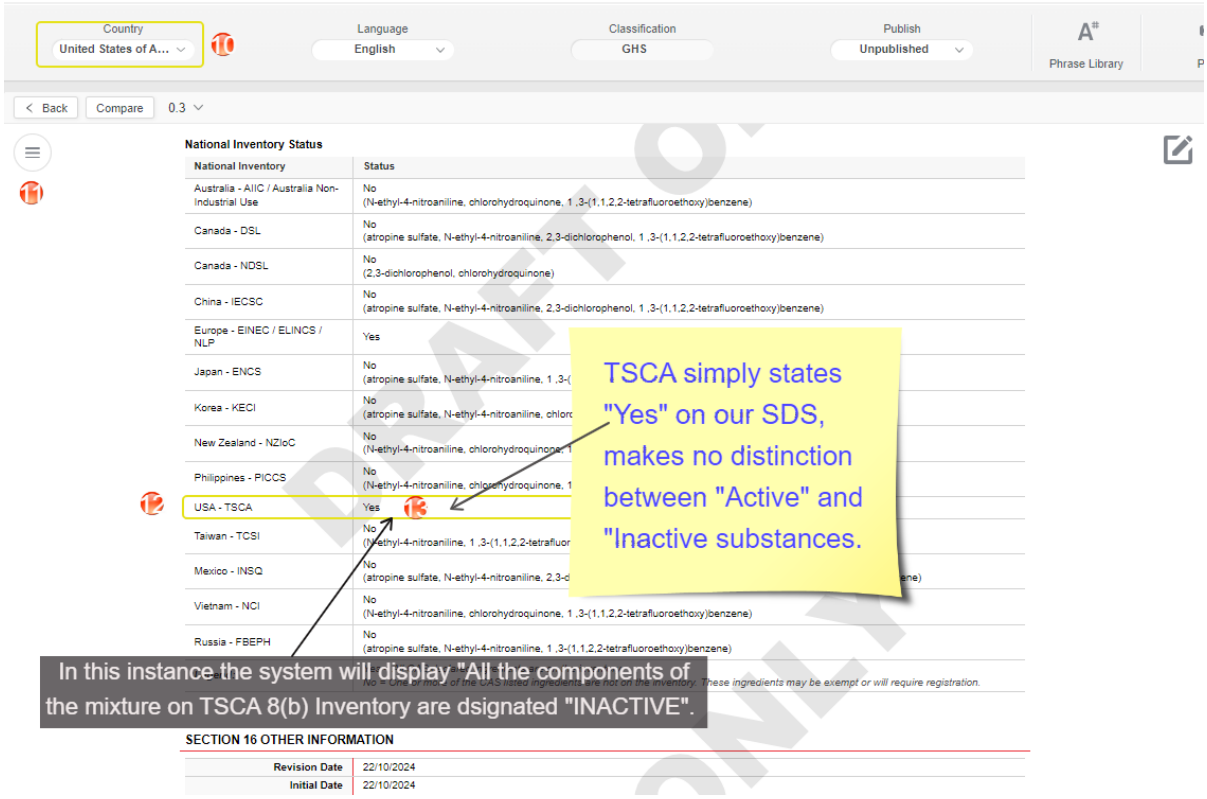




10. Click on the **Country** and set United States, if not already shown be default settings.
11. Click the **SDS Menu Sectional Settings** icon ≡ and select Section 15 (Regulatory Information).
12. Scroll down to the USA-TSCA row.
13. Note that the material is rendered as **USA-TSCA "Yes"** in this worked example. If the mixture is not listed in the TSCA Inventory, it will be rendered as a "No". See image of the SDS section 15 below.

TSCA = Yes



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TSCA = No

Back Compare 0.1

SECTION 15 REGULATORY INFORMATION

Safety, health and environmental regulations / legislation specific for the substance or mixture

ATROPINE SULFATE IS FOUND ON THE FOLLOWING REGULATORY LISTS

- Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals
- Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory)
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

1,3-(1,1,2,2-TETRAFLUOROETHOXY)PROPANE IS FOUND ON THE FOLLOWING REGULATORY LISTS

- Not Applicable

N-ETHYL-4-NITROANILINE IS FOUND ON THE FOLLOWING REGULATORY LISTS

- Not Applicable

2,3-DICHLOROPHENOL IS FOUND ON THE FOLLOWING REGULATORY LISTS

- Australian Inventory of Industrial Chemicals (AIIC)
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs
- International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 2B: Possibly carcinogenic to humans
- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 4

CHLOROHYDROQUINONE IS FOUND ON THE FOLLOWING REGULATORY LISTS

- Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2

National Inventory Status

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, chlorohydroquinone)
Canada - DSL	No (atropine sulfate, 1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, 2,3-dichlorophenol)
Canada - NDSL	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane, 2,3-dichlorophenol, chlorohydroquinone)
China - IECSC	No (atropine sulfate, 1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, 2,3-dichlorophenol)
Europe - EINEC / ELINCS / NLP	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane)
Japan - ENCS	No (atropine sulfate, 1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline)
Korea - KECI	No (atropine sulfate, 1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, chlorohydroquinone)
New Zealand - NZIoC	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, chlorohydroquinone)
Philippines - PICCS	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane, N-ethyl-4-nitroaniline, chlorohydroquinone)
USA - TSCA	No (1,3-(1,1,2,2-tetrafluoroethoxy)propane)

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Ingredients Identified as PBT, vPvB for EU Mixture SDSs

Recognition of Persistent, Bioaccumulative, and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB) substances as per the ECHA CLP Annex XIII regulation in section 2.3 of the European REACH SDS was previously only applied to pure chemical (substance) SDSs in the Chemwatch system.

Instrument	Region	Description
ECHA	Europe	The European Chemicals Agency mandated to carry out technical, scientific and administrative activities to the implementation of the EU's chemicals legislation and policy through collaboration with EU bodies and institutions, state authorities and internal organisations. The Agency is the central point in the REACH system, manages a database management system and coordinates the in-depth evaluation of chemicals and provides hazard information.
CLP	Europe	The Classification, Labelling and Packaging Regulation is based on the United Nations Globally Harmonised System (GHS) to ensure a high level of protection of health and the environment and the movement of substances, mixtures and articles. It is applicable across member states and all industrial sectors requiring manufacturers, importers or downstream users of substances or mixtures to classify, label and package their hazardous chemicals appropriately prior to placing them on the market.

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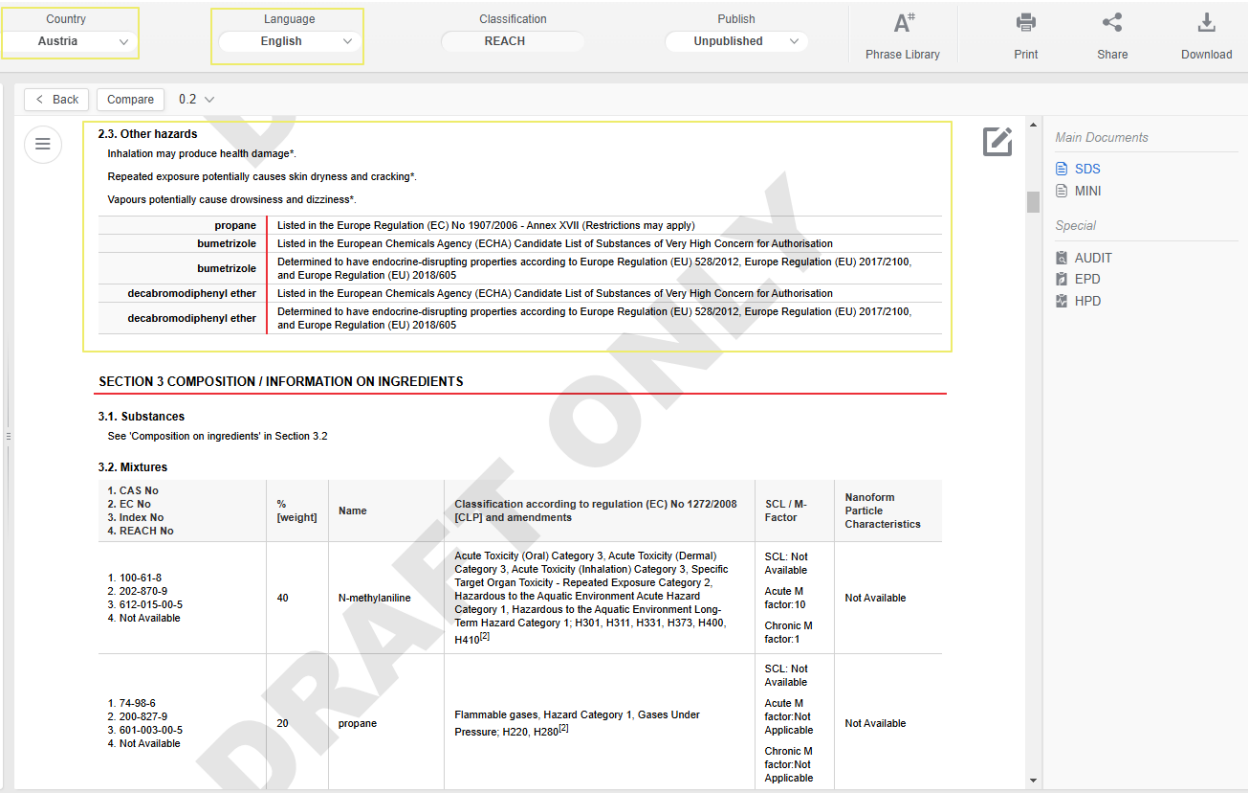
Instrument	Region	Description
REACH	Europe	Registration, Evaluation, Authorisation and Restriction of Chemicals is a regulation adopted to improve human health and the environment from risks posed by chemicals. REACH impacts a wide range of companies across many sectors, manufacturers, importers, downstream users and companies outside the EU. It promotes earlier identification of the intrinsic properties of chemical substances and taking measures, such as phasing out or restricting substances of very high concern.

Safety Data Sheets (SDSs) for mixtures, generated using the Credo/AuthorITe module, will include detailed information about any component ingredients identified as persistent, Bioaccumulative, and toxic (PBT) and/or very persistent and very Bioaccumulative (vPvB) substances. These classifications are in accordance with the criteria outlined in Annex XIII of the Classification, Labelling, and Packaging (CLP) Regulation. This information is reflected in Section 2.3 of the SDS for compliance with the Registration, Evaluation, Authorisation, and Restriction of Chemicals (REACH) Regulation. The inclusion of these details is applicable only when the concentration of the PBT or vPvB substance in the mixture is equal to or greater than 0.1% weight/weight (w/w).



UFI Number on Mini SDS for EEA Countries

Chemwatch enhanced Mini SDSs generated for products in any European Economic Area (EEA) country by enabling the system to automatically include UFI Number.

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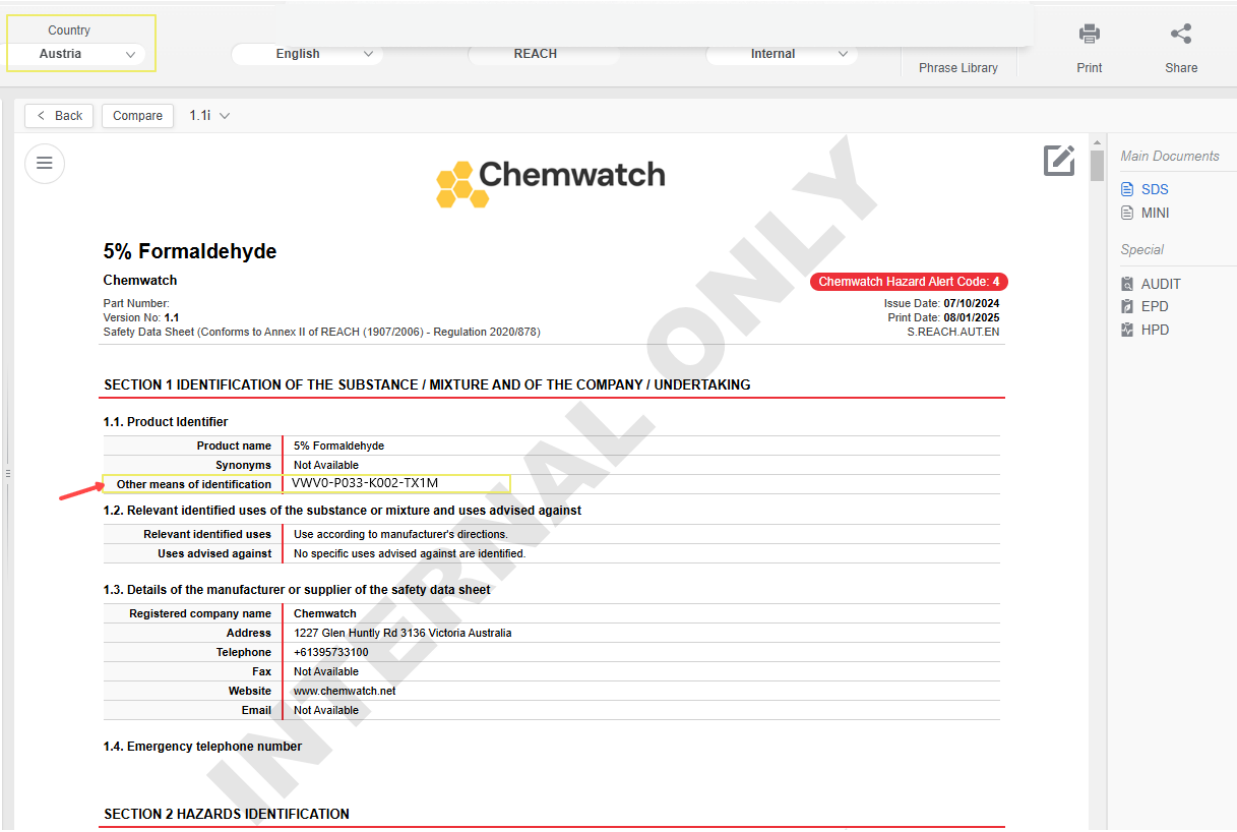
UFI Number is a Unique Formula Identifier, applicable in the EEA market. It is a 16-character code used for mandatory reporting on products that contain a hazardous mixture.

Generally, the full SDS has a UFI Number for EEA country of SDS in Section 1 in “Other Means of Identification”, this number will also be reflected on the Mini SDS for ease of identification.

The UFI Number will not be reflected on non-EEA countries on Mini SDSs. If a UFI Number is missing on the SDS, the system will not show any UFI Number on the Mini SDS.

Full SDS Display of UFI Number



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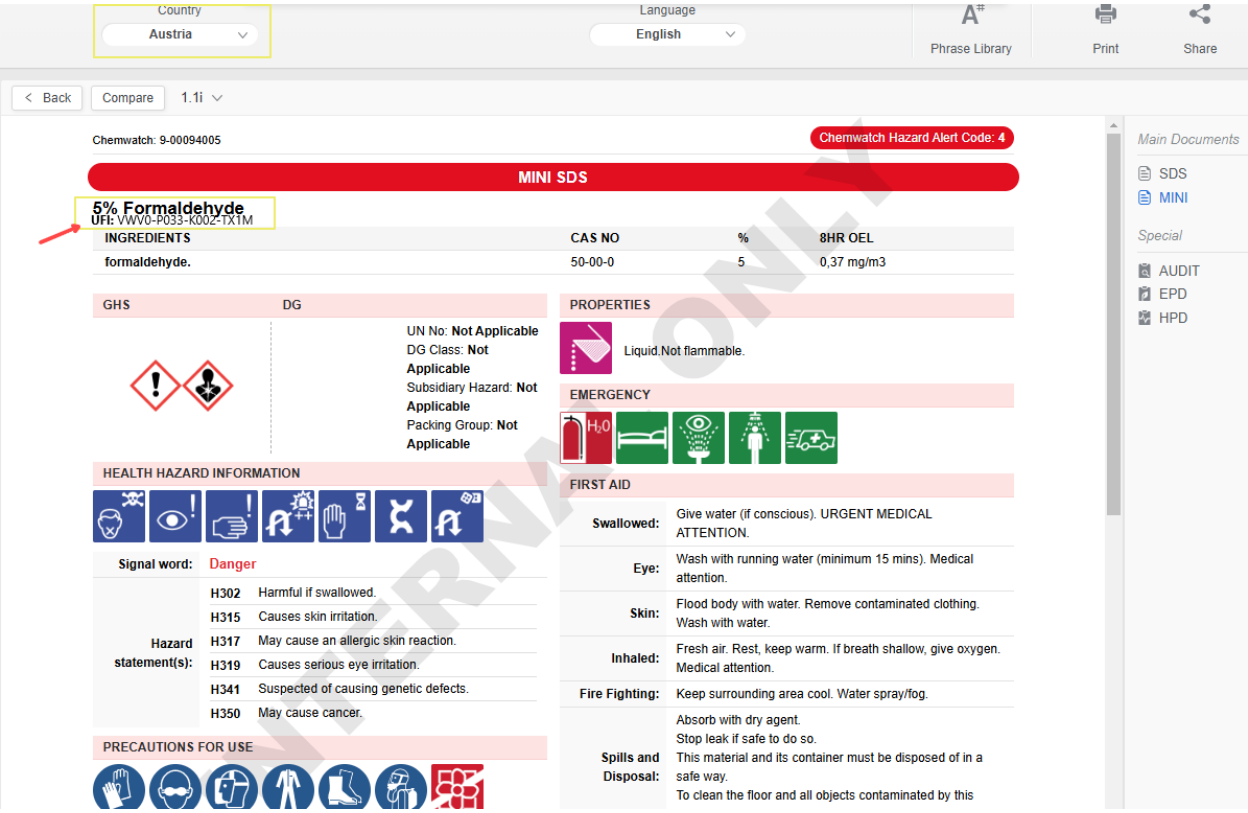
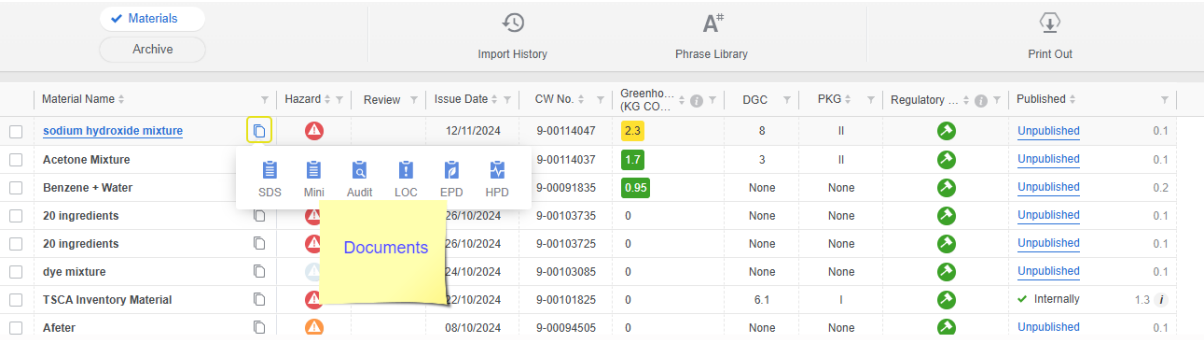
Mini SDS Display of UFI Number



2.3 Documents on Materials Grid

When SDS is created as a draft document, the system provides access to automated documents and grid data display in specific columns. The materials column contains a Documents icon that provides a variety of documents generated for the material as well as other rating criteria/alert scores.

- Mini SDS
- Audit Report
- LOC (List of Concern)
- EPD (Environmental Product Declaration
- Health Product Declaration



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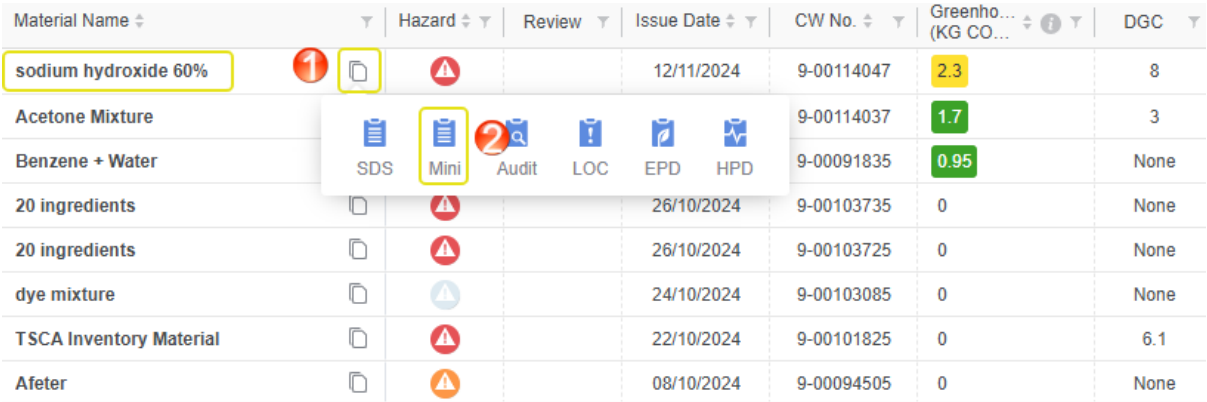
Document	Icon	Description
SDS		Safety Data Sheet (14 Sections).
Mini		One-Page colour coded hazard summary (Mini SDS).
Audit		Audit Report - Classification rationale of the material mixture and contributing factors.
LOC		List of Concern, identifies hazard, ingredients, CAS No. and the respective list of regulatory instruments where the chemical ingredients are listed globally.
EPD		Environmental Product Declaration report.

2.3.1 Display Documents Mini SDS, AUDIT, EPD, HPD and LOC

The steps below illustrate how to display a Mini SDS for the material or mixture based on the authored SDS data.

1. Hover mouse over the **Documents** icon
2. Select the **Mini** SDS option to render the document.
3. Optional: Select the **Country** field to translate document to official language other than English.

1. Optional: Use the right-hand side panel to select a **Special Document** to view, e.g., **AUDIT**, EPD, HPD.
2. Click the **Back** button to go back to the grid and choose another type of document from the Documents icon options.



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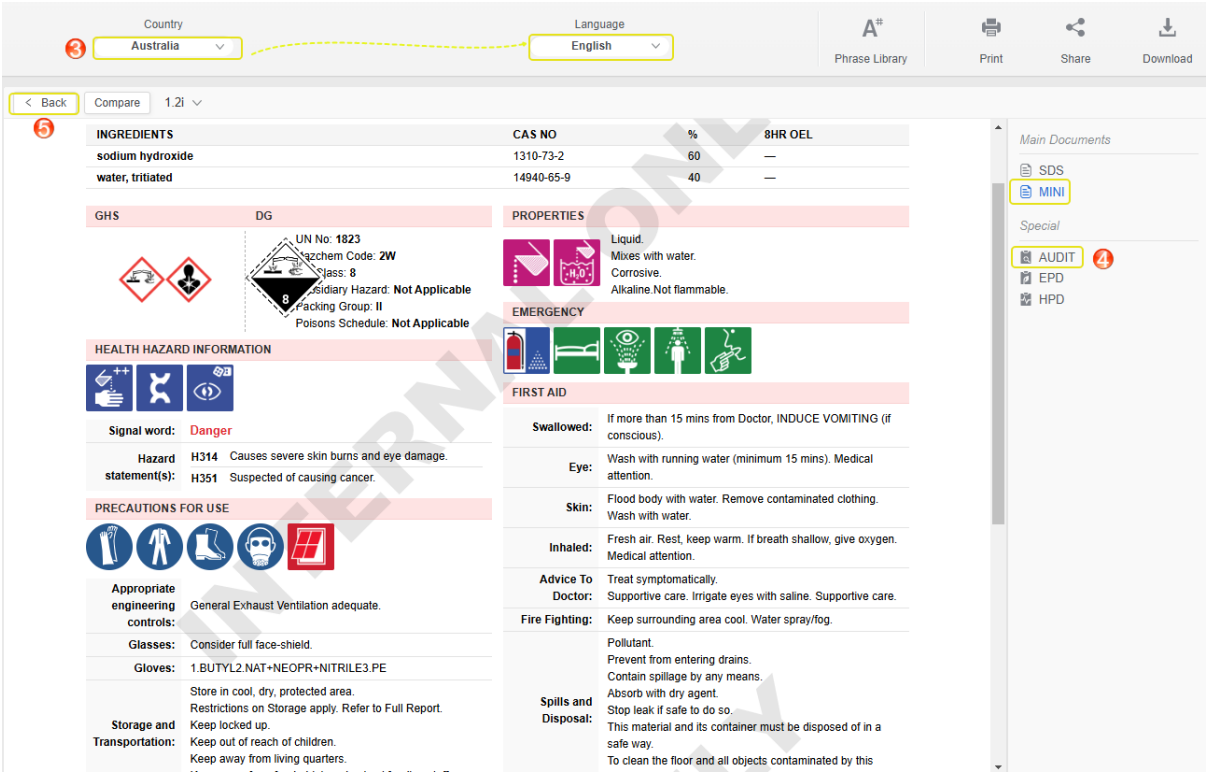
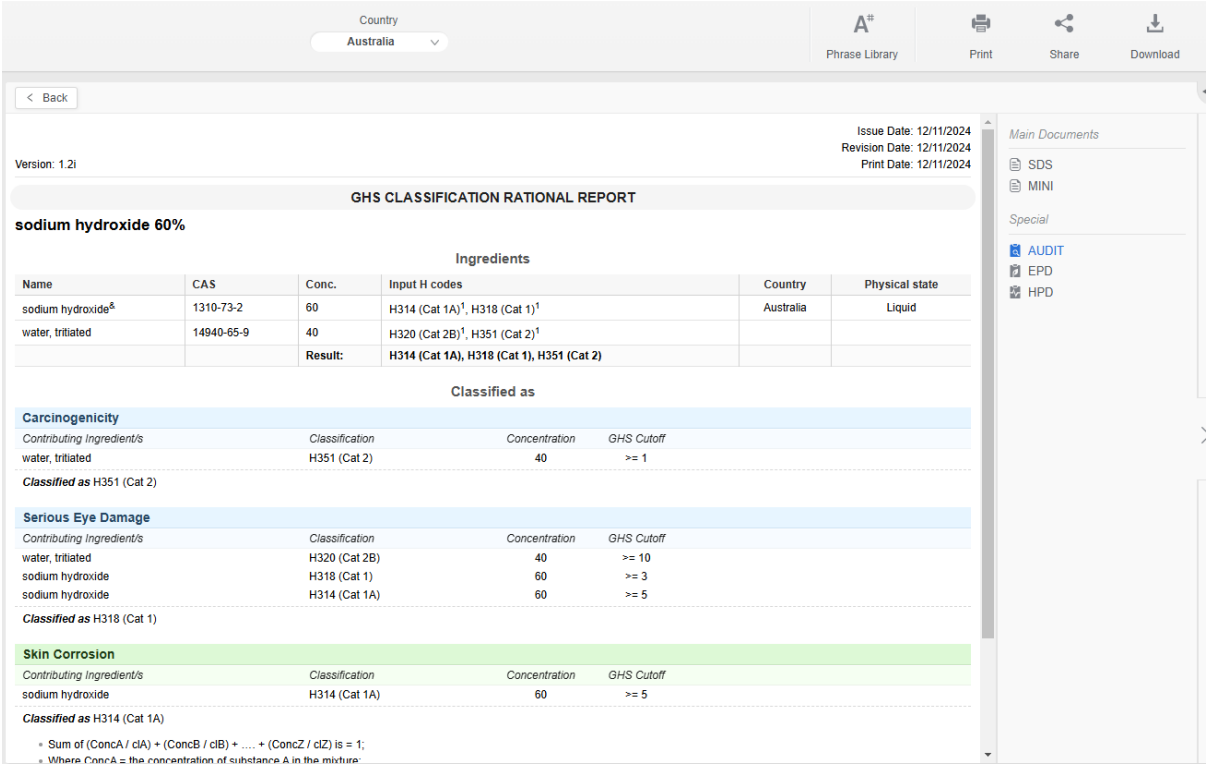


Audit Report



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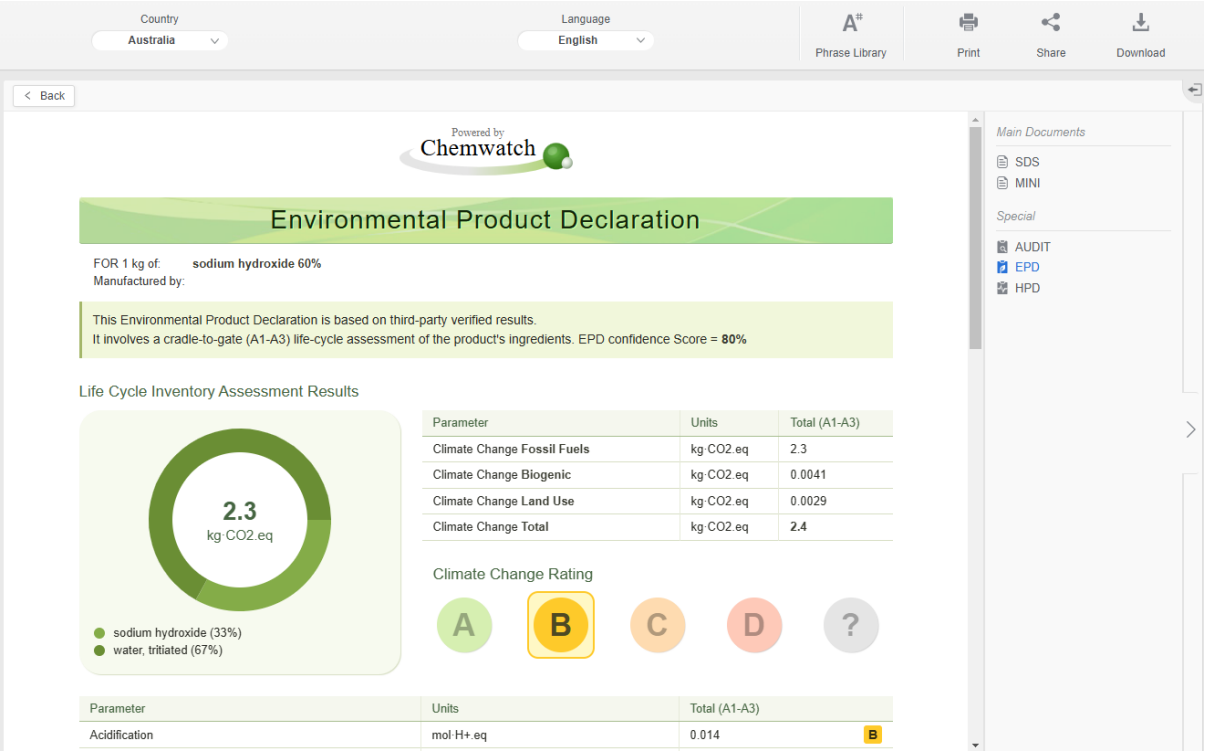
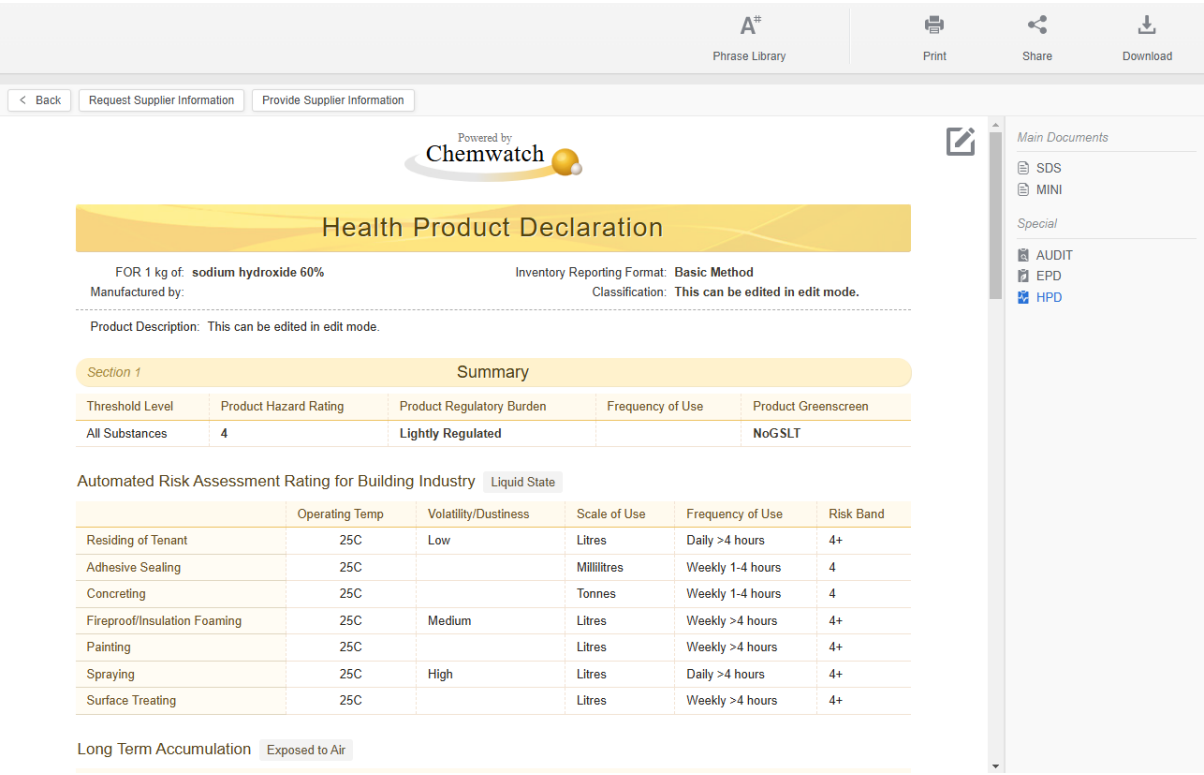
EPD



HPD



Use the **Request Supplier** by providing the Supplier Name and Supplier Email and press the submit button to send the notification request directly to supplier.

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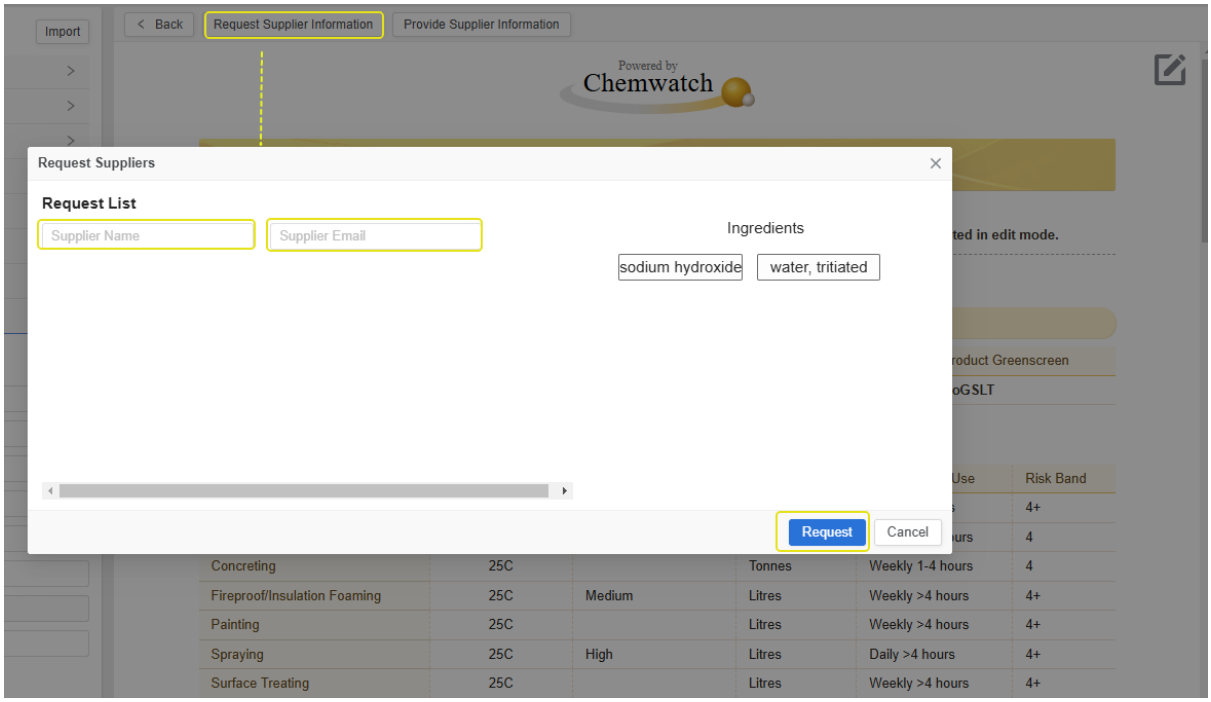
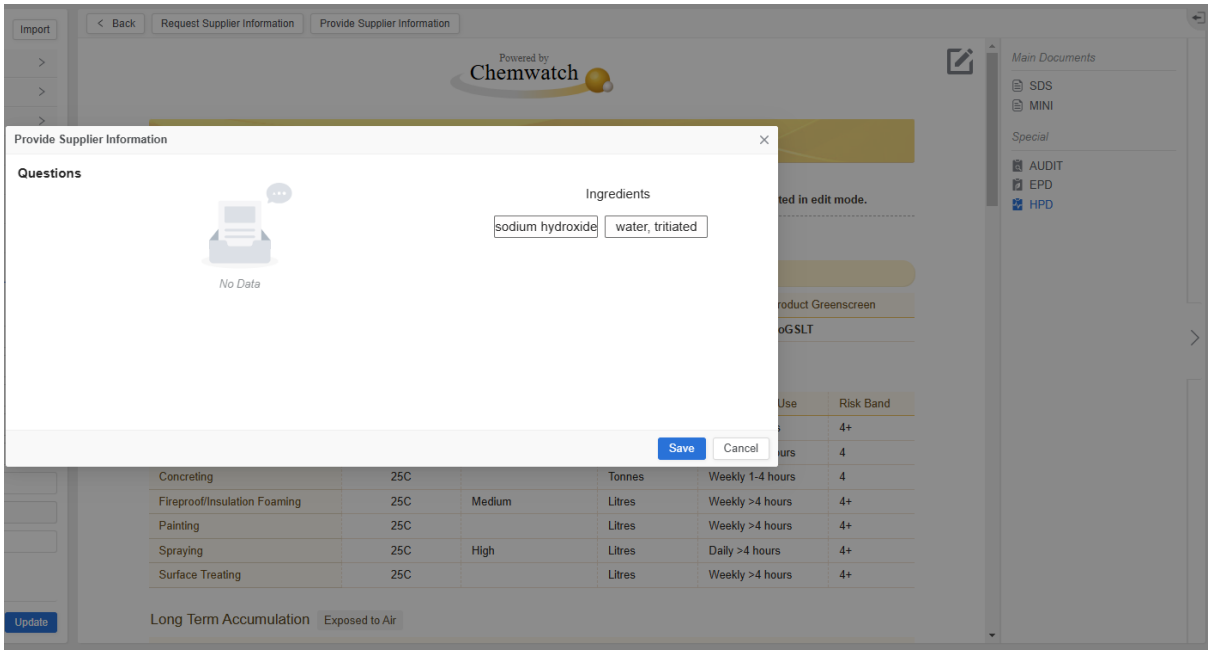


Use the **Provide Supplier Information** by providing the Supplier Name and Supplier Email and press the submit button to send the notification request directly to supplier.



EPD in AuthorITe Module

The AuthorITe module provides the EPD icon in the Docs link to render a material's Environment Product Document. The steps below show how to generate the EPD document.

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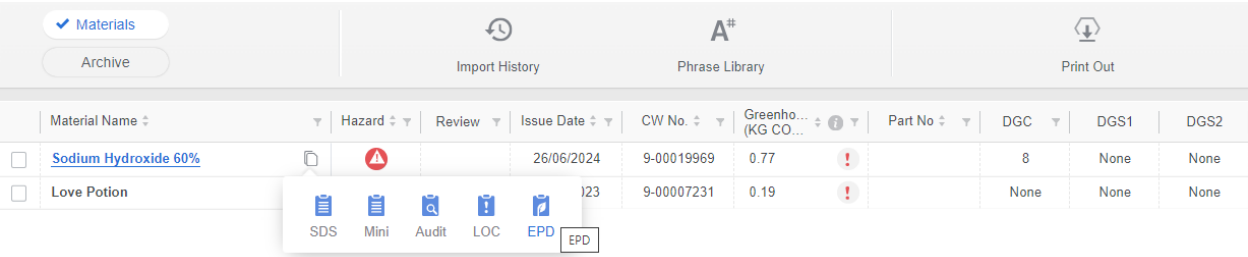
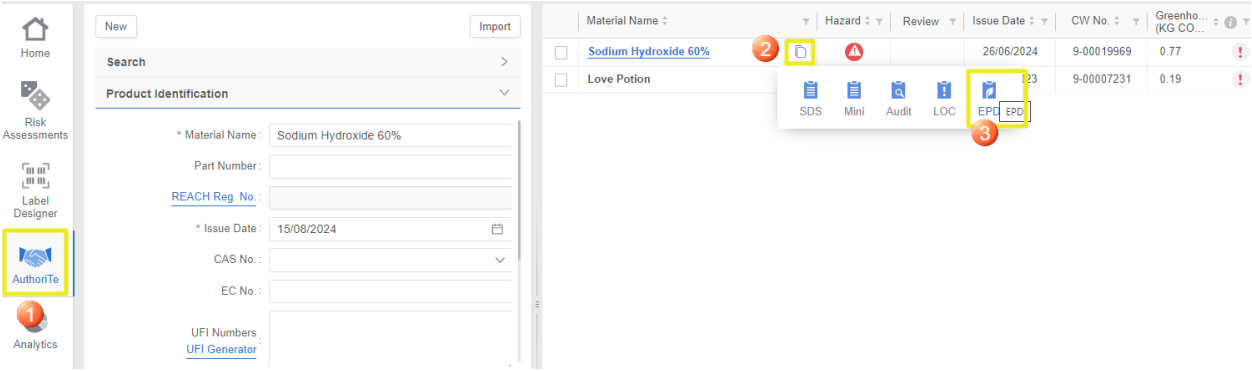


Steps to Render EPD in another for a Material in AuthorITe Module

1. Open **AuthorITe** module .
2. Hover on **Docs icon** .
3. Click on the **EPD document icon** for the material.
4. EPD document is displayed in **default language**, e.g., Australia, English.



5. Click on the **Country** drop-down arrow on the toolbar and select country, e.g., United States.
6. Click on **the Language** drop-down arrow on the toolbar, e.g., Spanish.
7. An **EPD document** is displayed in selected country language.

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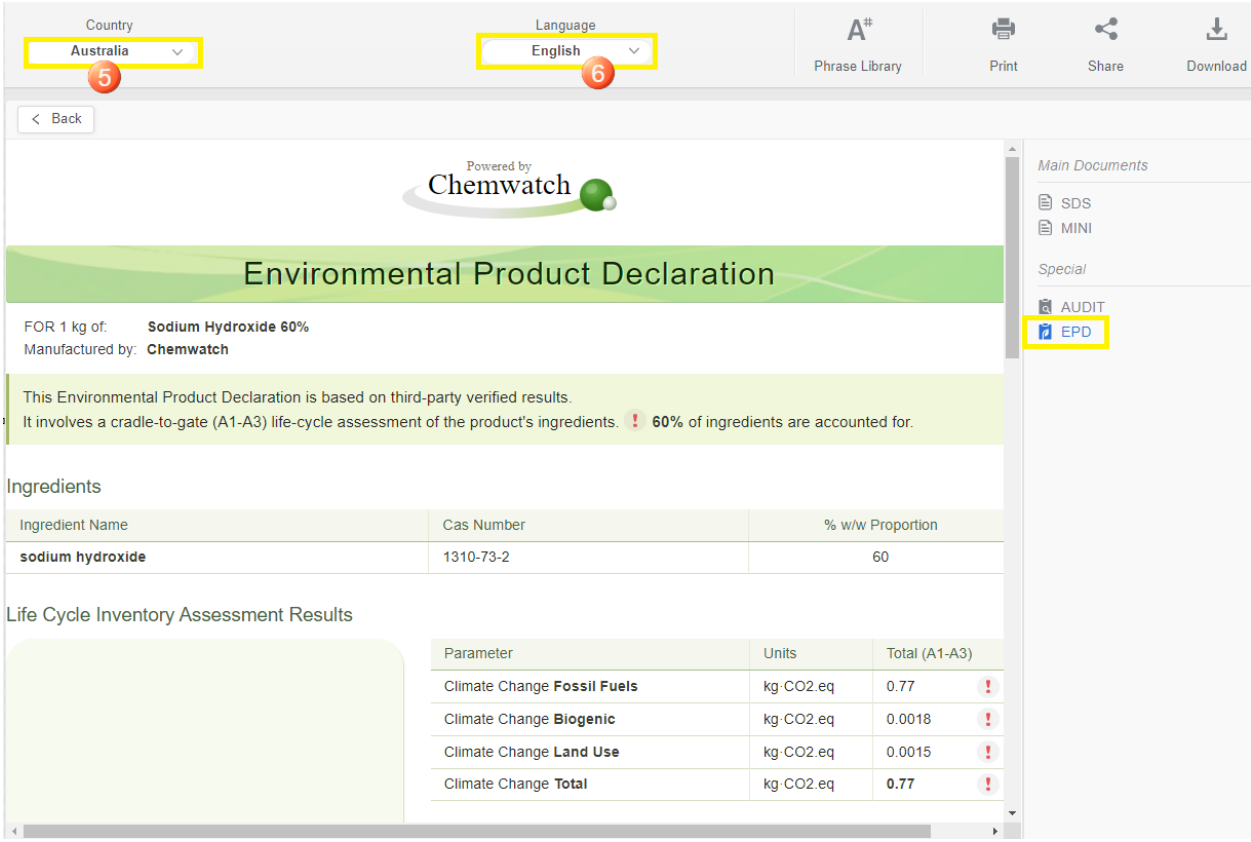
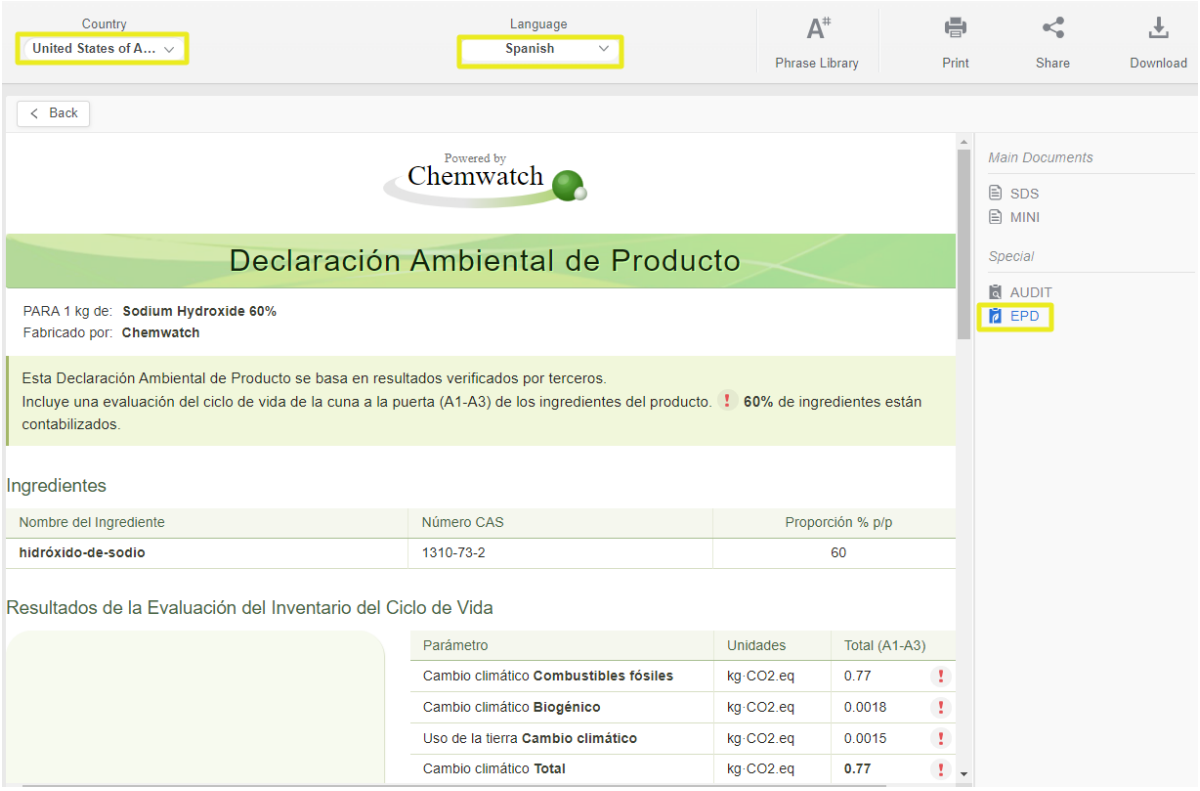


For example, United States, Spanish EPD



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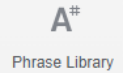
For example, Japan, Japanese EPD

2.4 Add CPs in Phrase Library

The Phrase Library tool 

can be used to add CPs. The steps below show how to work with SDS related features of the Phrase Library.

- Creating a new phrase
- Searching for existing phrases
- Inserting phrases into SDS
- Viewing phrases that are inserted in the SDS

Steps: Create CP Phrases in Phrase Library

1. Click the **Phrase Library** button on the toolbar.
2. The **User Defined Codes Phrases** tab displays by default in the Phrases Library window.
3. Select the **Create** tab to start adding CPs.
4. Choose a **Language** from the language dropdown arrow, e.g., French.
5. Enter the **CP code** in the required field *CP Code.
6. Insert phrase in **Editor** field.
7. Click the **Create** button.
8. Click the **User Defined Code Phrases** tab to view newly added code phrase CP.

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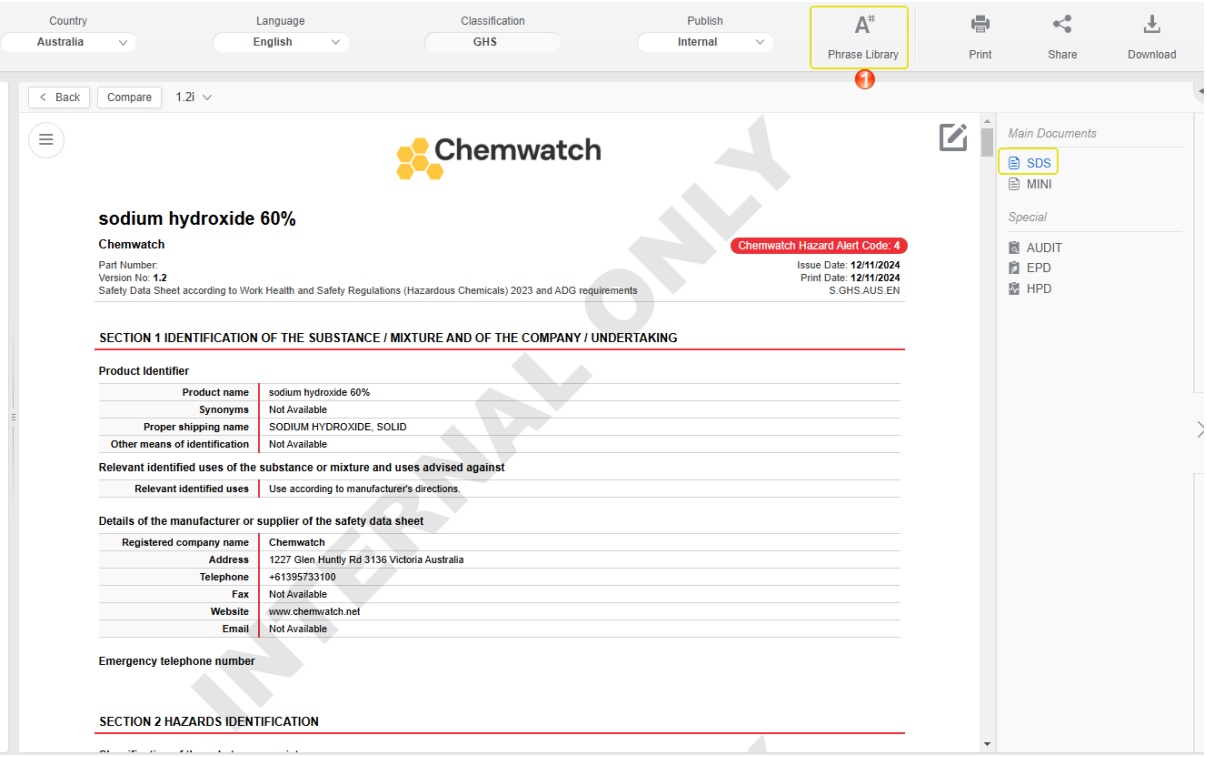

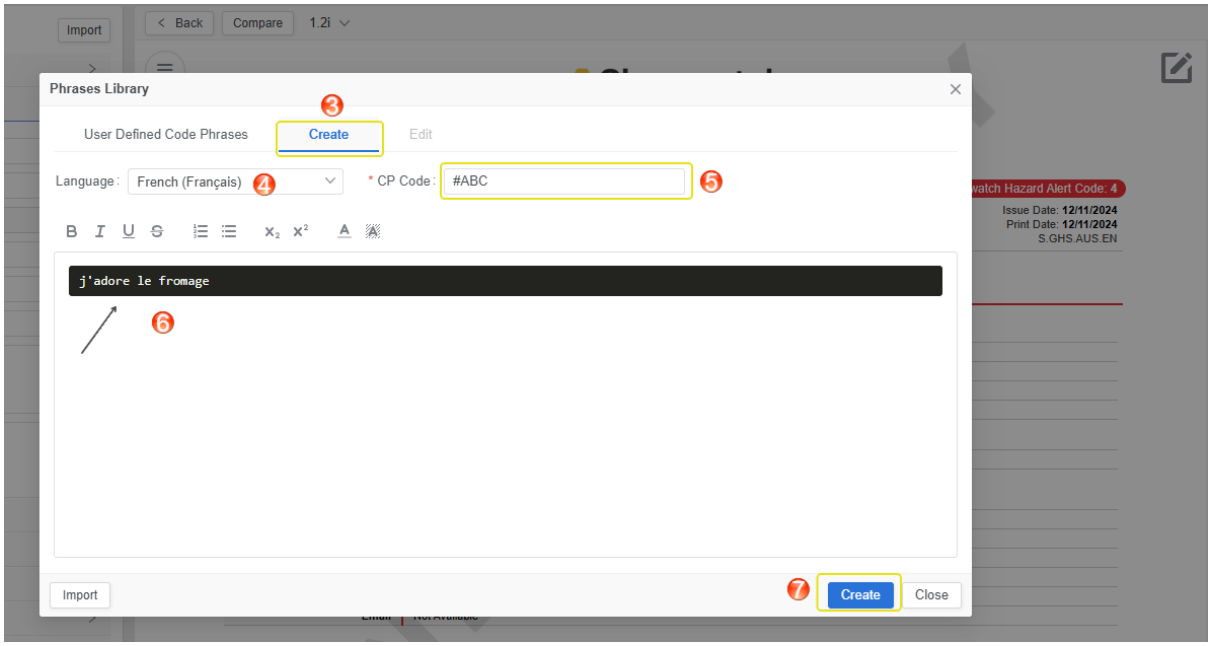

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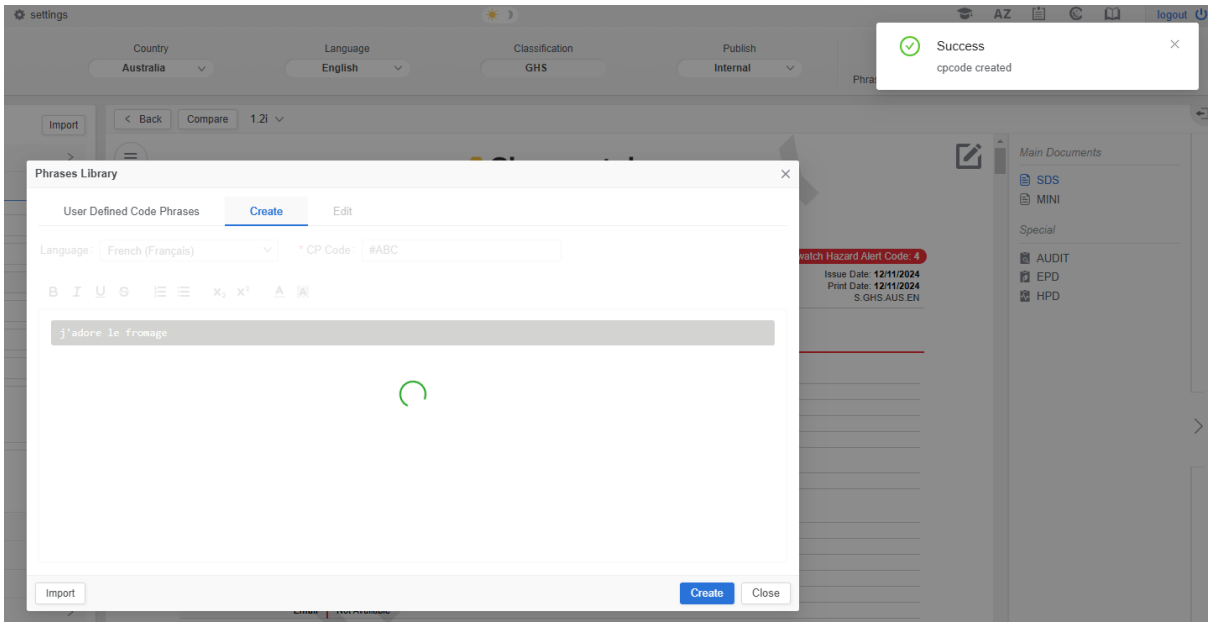
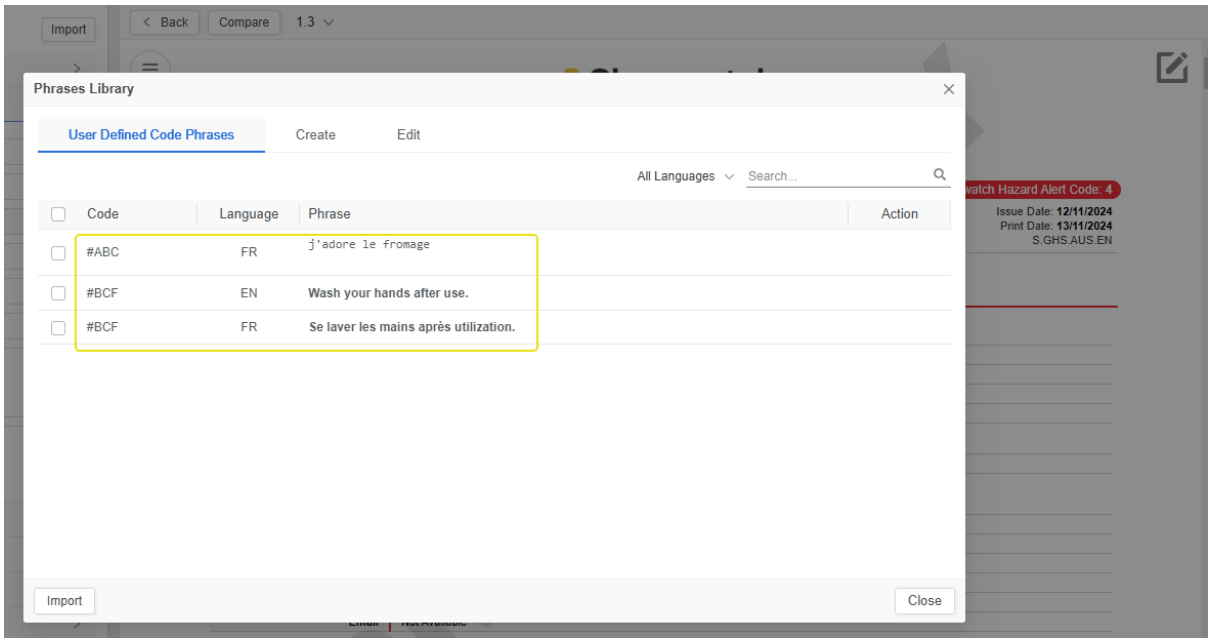
CP Code Created



Code Phrase Added as a User Defined Code Phrase for specific language. Multiple phrases have been created.



Phrases can be added to the SDS section. The steps below show how to add phrases into the SDS.

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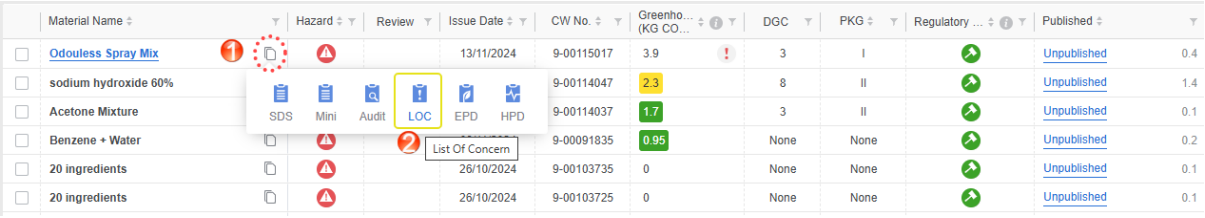
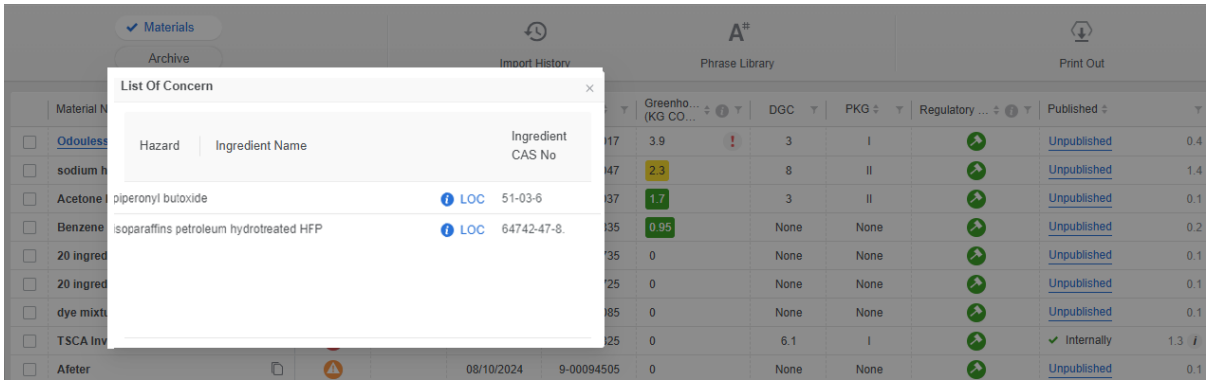
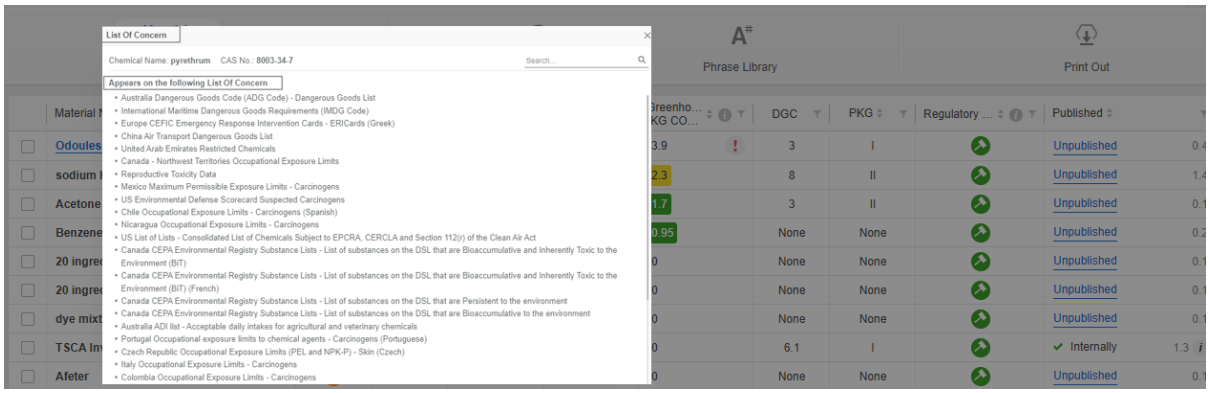
LOC – List of Concern

The **List of Concern** is integrated with the Chemwatch Galleria Chemical Regulatory database to determine if the chemical ingredient(s) is on the global Lists of Concern (LOC).

1. Hover mouse over the **Documents** icon
2. Select the **LOC** icon to render the List of Concern window.
3. Optional: Select the **Country** field to translate document to official language other than English.
3. Optional: Use the right-hand side panel to select a **Special Document** to view, e.g., **AUDIT**, EPD, HPD.
4. Click the **Back** button to go back to the grid and choose another type of document from the Documents icon options.







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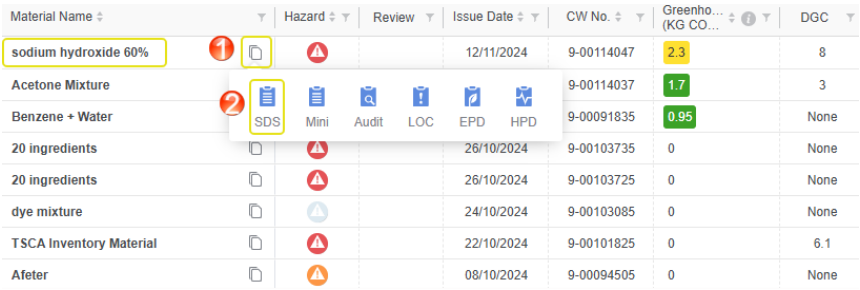
2.4.1 Edit SDS - Insert Phrases

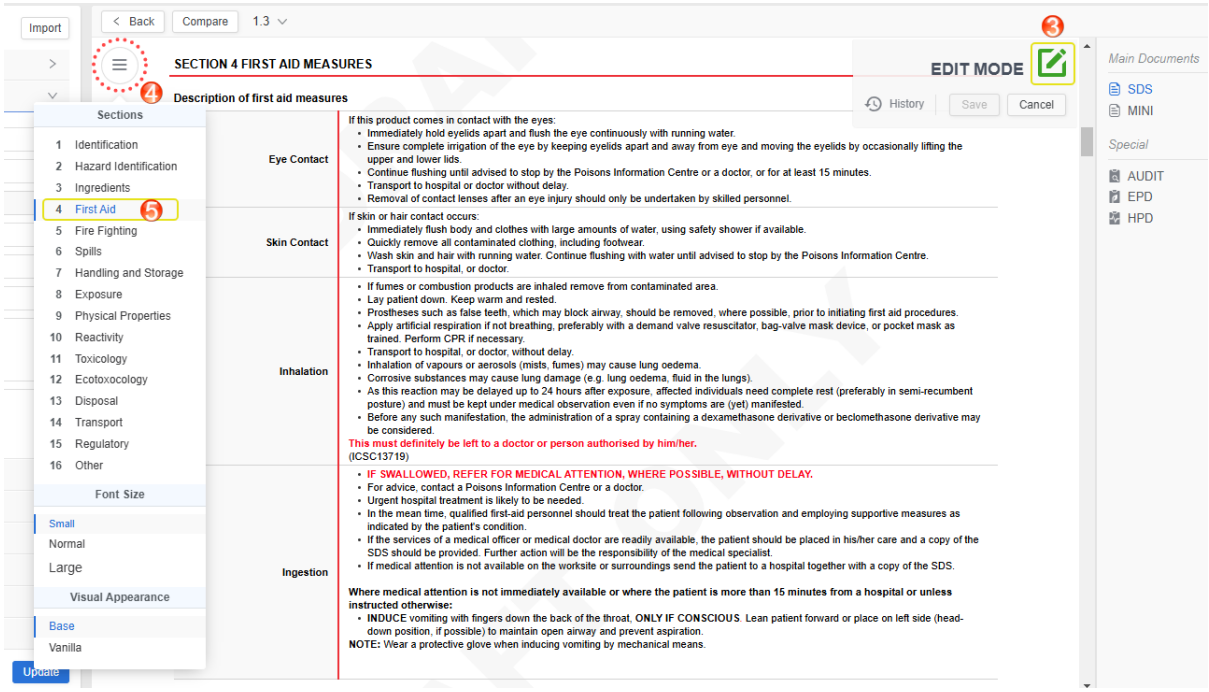
Phrases can be added into the SDS in Edit Mode .

Steps: Insert Phrases into the SDS Section.

1. Hover mouse over the **Documents** icon
2. Click the **SDS** icon to render the document.
3. Click the **Edit** button on the top right corner of the SDS.
4. Click the **SDS Menu** button to view sections of the SDS.
5. Select the applicable **SDS Section**, e.g., Section 4: First Aid.
6. Hover mouse over the skin contact segment content and click the **Edit icon** pop-up.
7. Insert User Phrase(s).
8. Click the Editor **Save** button Save.



SDS Edit Mode



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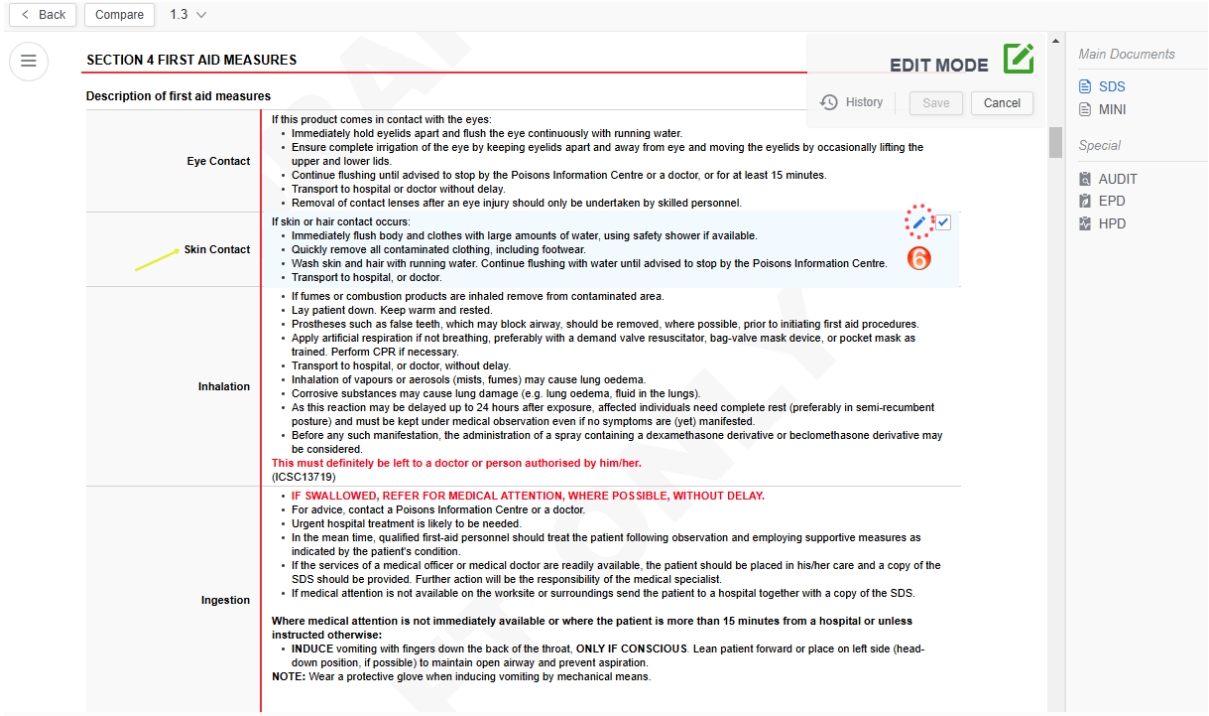
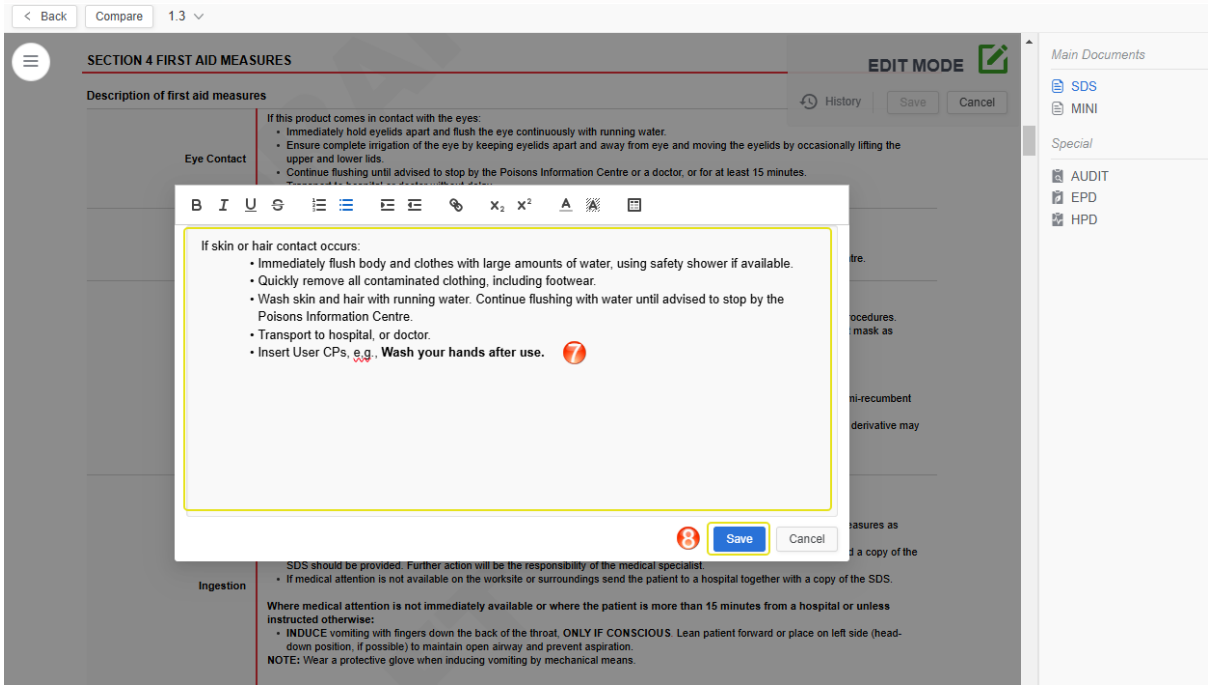
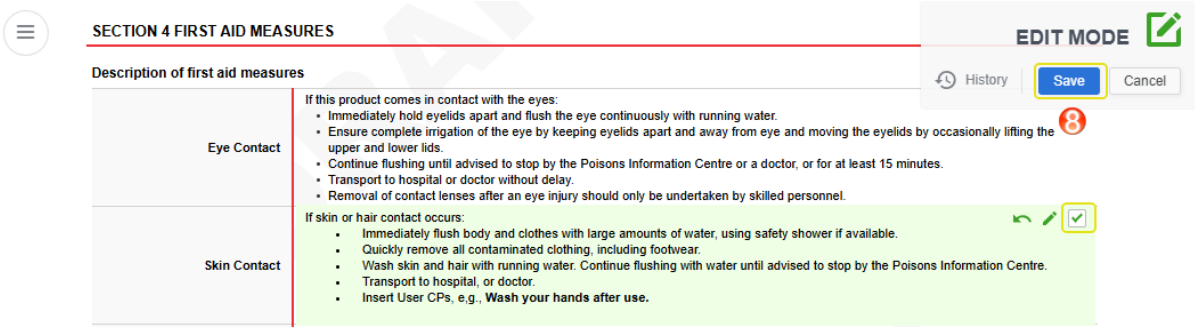




Edit Mode Save button



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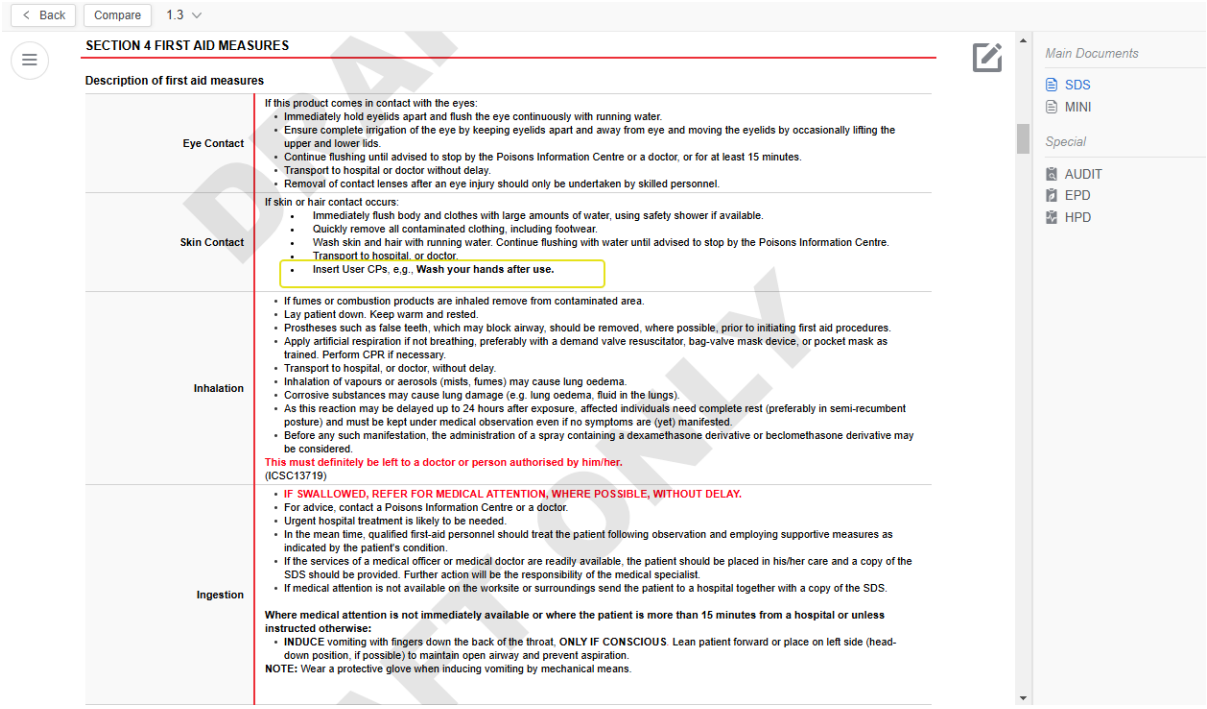

2.4.2 SDS Edit Mode – View Edit History

Any SDS editing logs are tracked and viewable through the History button . To view all the historical activities, click on the History button when in Edit Mode.

Steps: View SDS Green Edits History Logs.

1. Hover mouse over the **Documents** icon
2. Click the **SDS** icon to render the document.
3. Click the **Edit** button on the top right corner of the SDS.
4. Click the **History** button to view the Green Edits history logs of the SDS.
5. **Hover mouse over a log entry** to revert changes. Click on **Revert Changes** link alongside a log entry if applicable.

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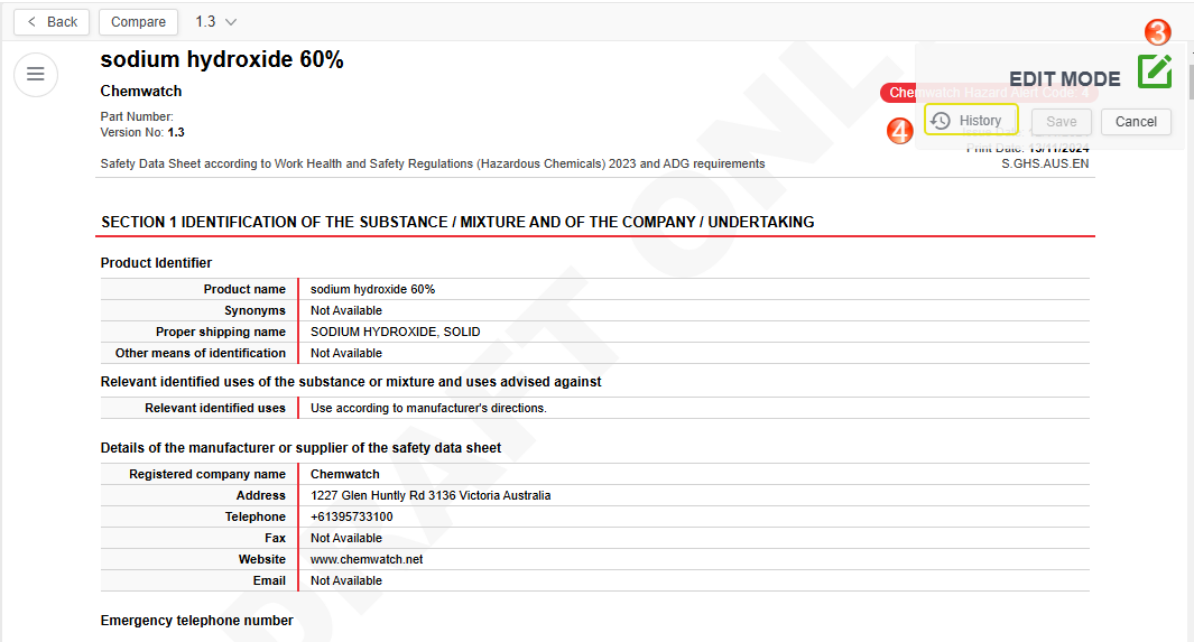
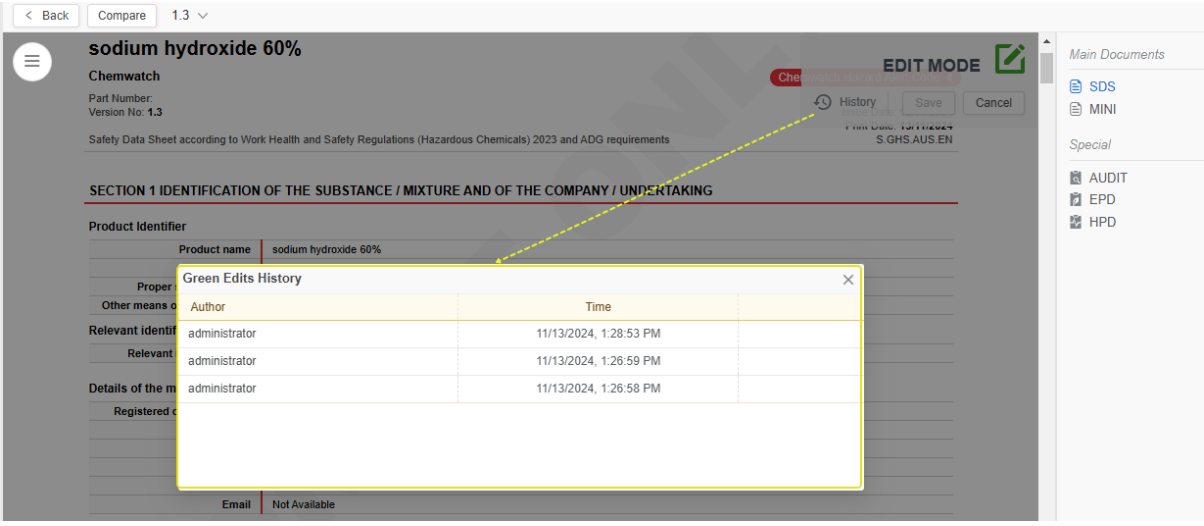
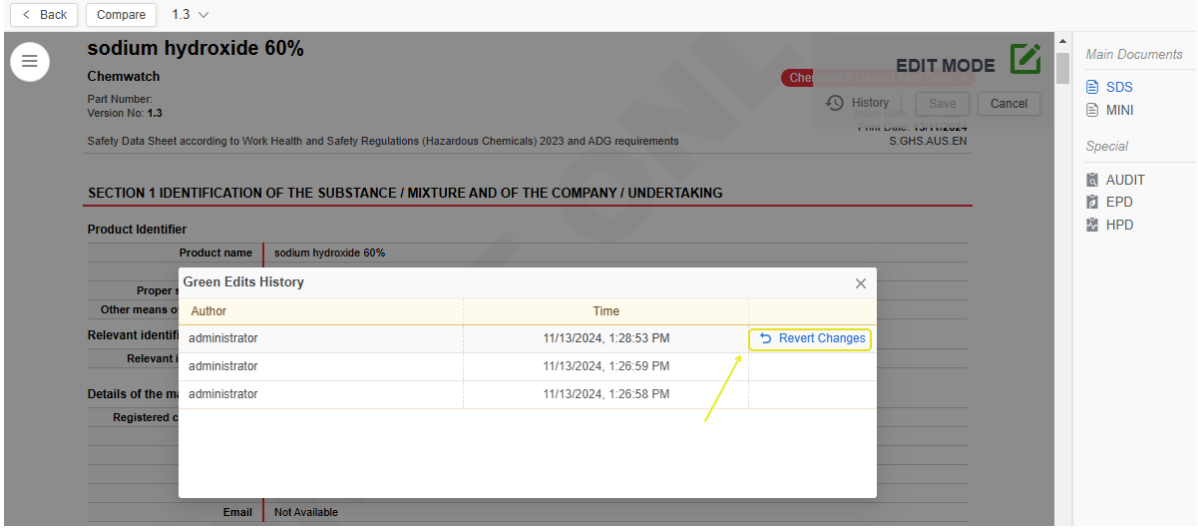


Green Edits History Logs





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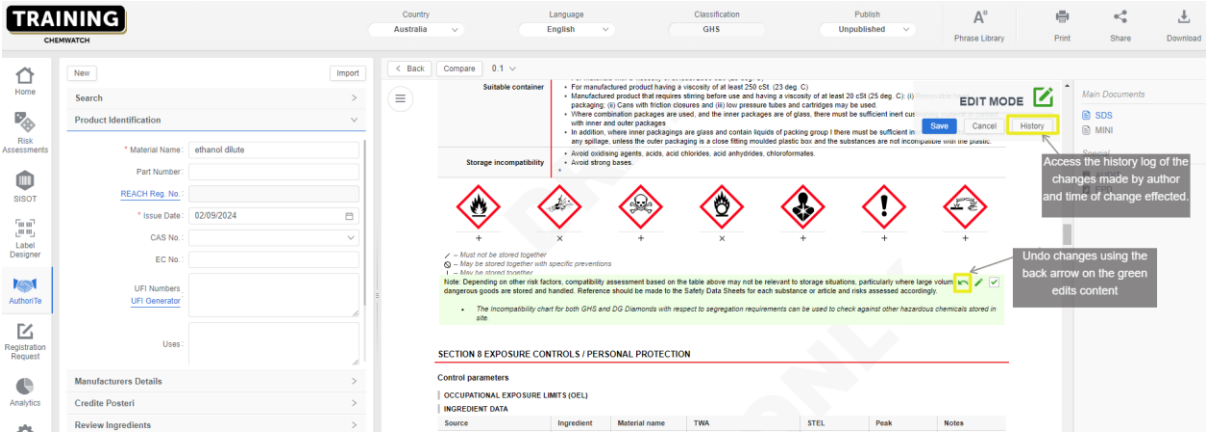
2.4.3 Enhanced Version of Edits on SDS

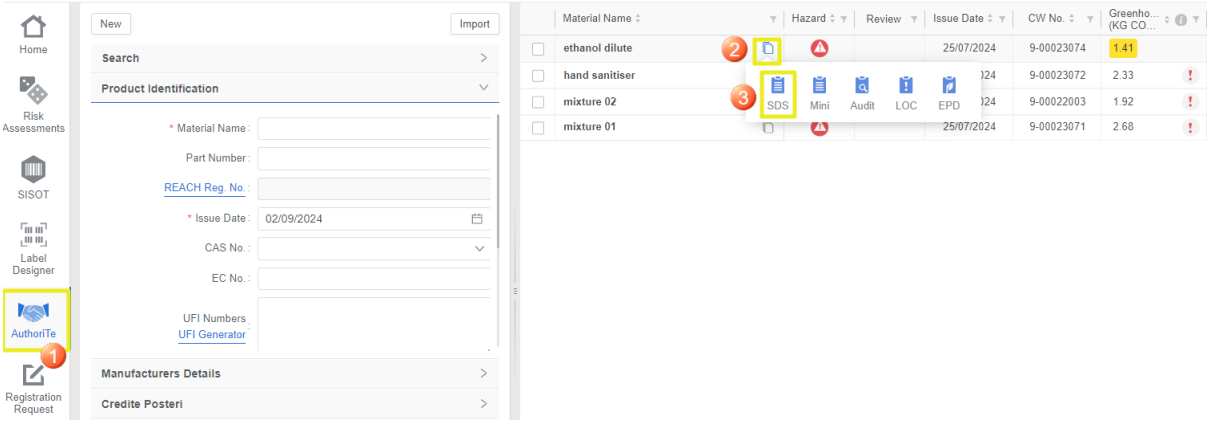
The Green Edits on Beehive AuthorITe module have undergone significant improvements from previous version. The latest update features the following improvements:

- An option to “Undo” the changes made to any Green Edit point when in the EDIT mode
- A History Log of Green Edits made to an SDS.



Steps to Green Edits on SDS

14. Open **AuthorITe** module .
15. Hover mouse pointer over the **Docs icon** next to the material name on the grid.
16. Click on the **SDS document icon** for the material.
17. SDS document is displayed in default language with the **EDIT** icon on the top right corner of the SDS.



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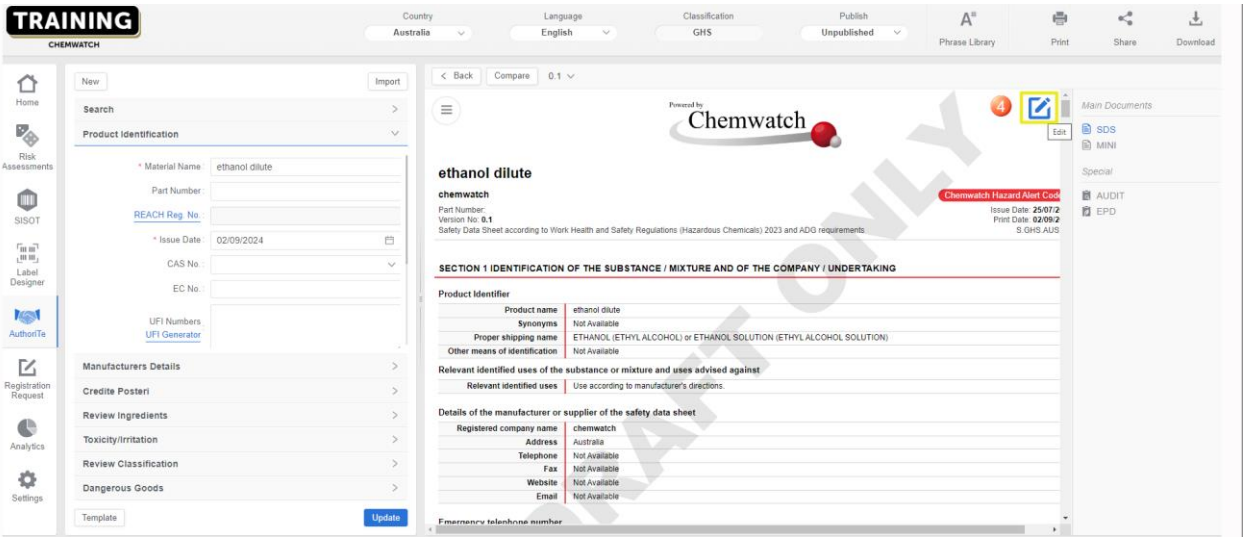

18. Click on the **Edit** icon to open the SDS Edit mode for Green Edits.
19. Use the Edit function for any allowable segments of the SDS section to edit content using the **Green Edit icon.**
20. Click on the **Editor field to type your text** for the respective sectional change of the material SDS content.
21. Click the **Save** button Save to save the changes made.

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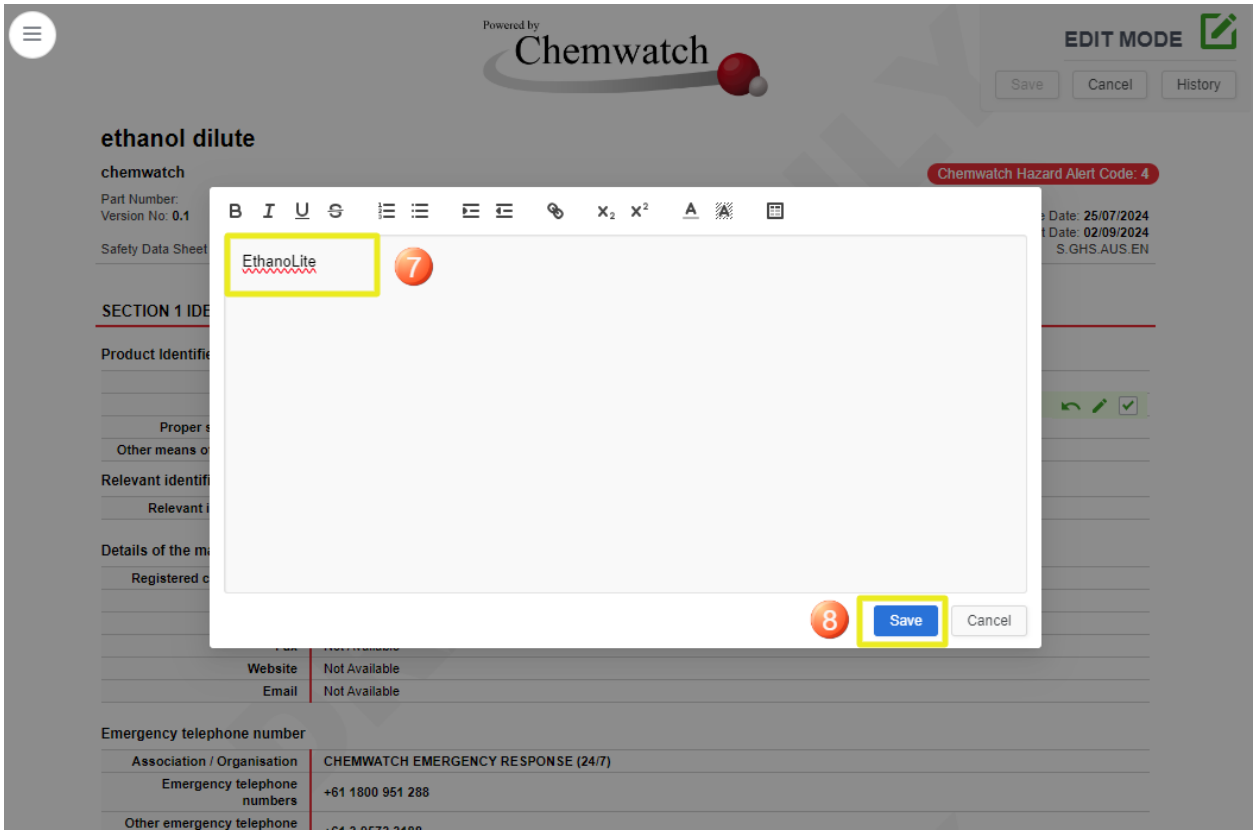

22. Click the **Save** button on the EDIT MODE to save the SDS.

23. **SDS content** change saved.

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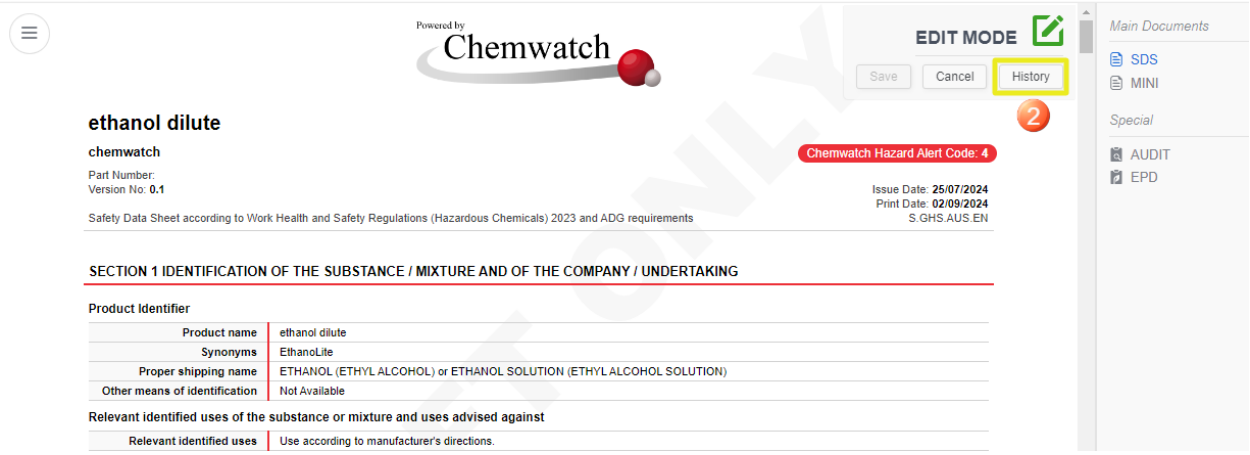
Steps to Display the Green Edits History Log

1. Click on the **Edit** icon to open the SDS Edit mode for Green Edits.

2. Select the **History** button in Edit Mode.



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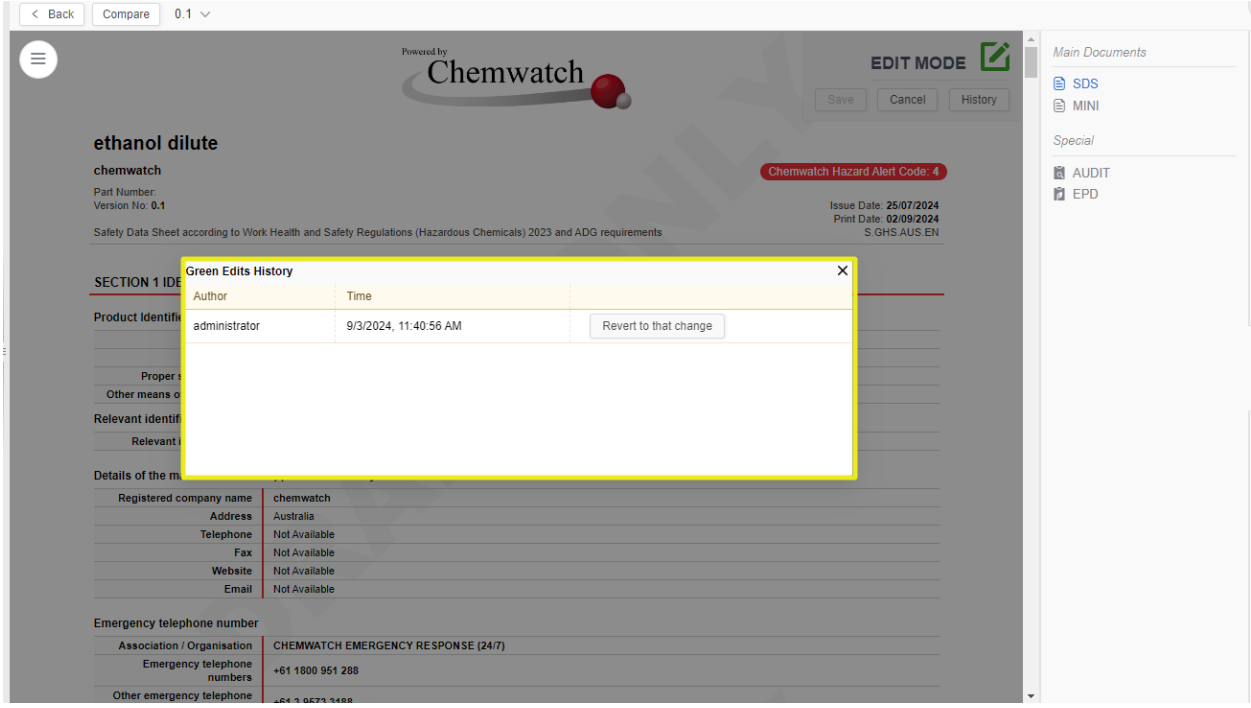
History Log Display Window for Green Edits

The SDS author can also revert to the change made on the authored SDS. The history log provides the following information datapoints.

- Author of the change
- Time when the change was made



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3.0 Additional Features

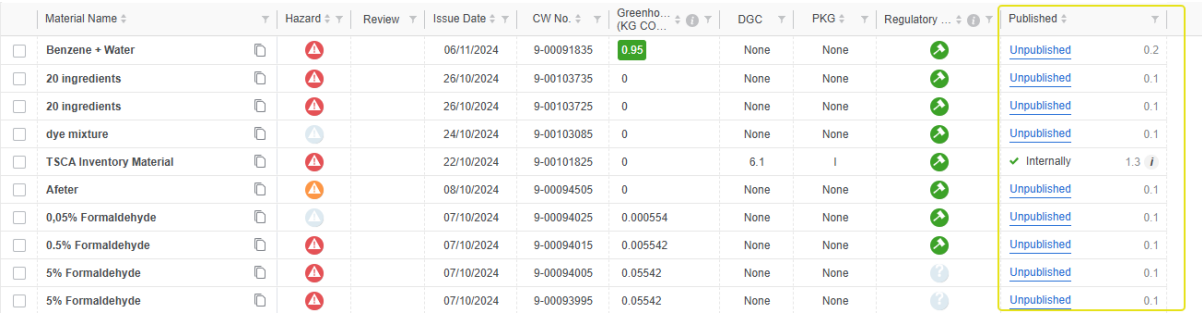
AuthorITe provides additional features that enhance the system's capabilities.

- Identification of SDS Published for Internal or External Use
- Ignore GHS Rules Setting
- Regulatory Burden
- Phrase Library in SDS Edit Mode
- Add HNOC (Hazards Otherwise Not Classified)
- Specific Target Organ Toxicity (STOT)
- Normalisation of Ingredient Proportion

WHAT YOU'LL LEARN

3.1 Identification of SDS Published for Internal or External Use

The materials grid displays a "Published" column which provides the publish status of the authored SDS and the respective version number.



Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	DGC	PKG	Regulatory ...	Published	
Benzene + Water			06/11/2024	9-00091835	0.95	None	None		Unpublished	0.2
20 ingredients			26/10/2024	9-00103735	0	None	None		Unpublished	0.1
20 ingredients			26/10/2024	9-00103725	0	None	None		Unpublished	0.1
dye mixture			24/10/2024	9-00103085	0	None	None		Unpublished	0.1
TSCA Inventory Material			22/10/2024	9-00101825	0	6.1	I		Internally	1.3
Afeter			08/10/2024	9-00094505	0	None	None		Unpublished	0.1
0,05% Formaldehyde			07/10/2024	9-00094025	0.000554	None	None		Unpublished	0.1
0.5% Formaldehyde			07/10/2024	9-00094015	0.005542	None	None		Unpublished	0.1
5% Formaldehyde			07/10/2024	9-00094005	0.05542	None	None		Unpublished	0.1
5% Formaldehyde			07/10/2024	9-00093995	0.05542	None	None		Unpublished	0.1

The authored SDS can go through the following authoring stages.

- Drafting Stage
- Reviewing/Editing Stage
- Publishing Stage

A draft document, which starts with the first iteration (0.1) of the authored SDS will display a draft only watermark on the document. The publishing stages are;

- Unpublished status
- Internally published
- Externally published

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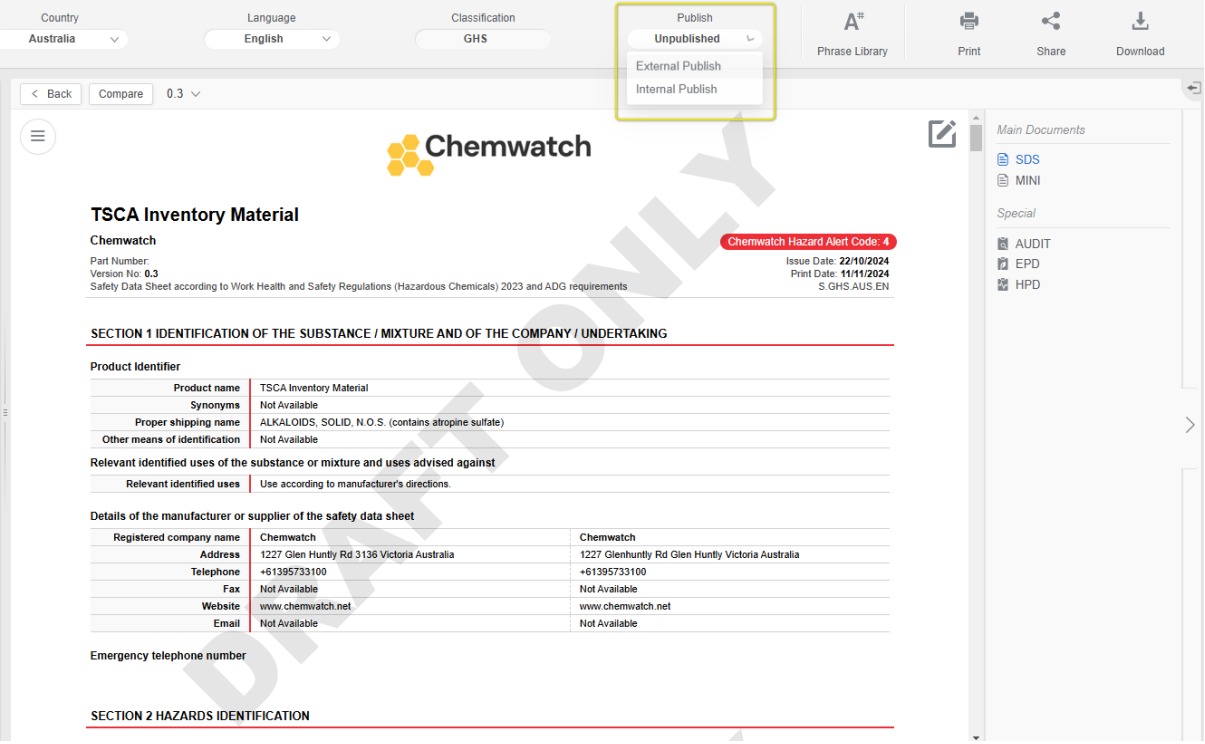

SDS can be published internally or externally. Users can easily distinguish between internally or externally published SDS.

SDS Publish	Description	Attribute
Unpublished	Draft only document.	A **Draft Only** watermark is diagonally embedded on the document.
Internal Publishing	Draft document published for internal use only.	Internally published SDS will have annotation SDS version attribute 'i' or 'e' and will show the **Internal Only** watermark.
External Publishing	SDS published as a release document for external use.	**SDS** tailored for official **distribution**. No watermark shown on the external published document.

Annotation attributes of 'i' or 'e' are added behind the current version numbers and these annotations can be seen on the user interface dropdown header for version numbers.

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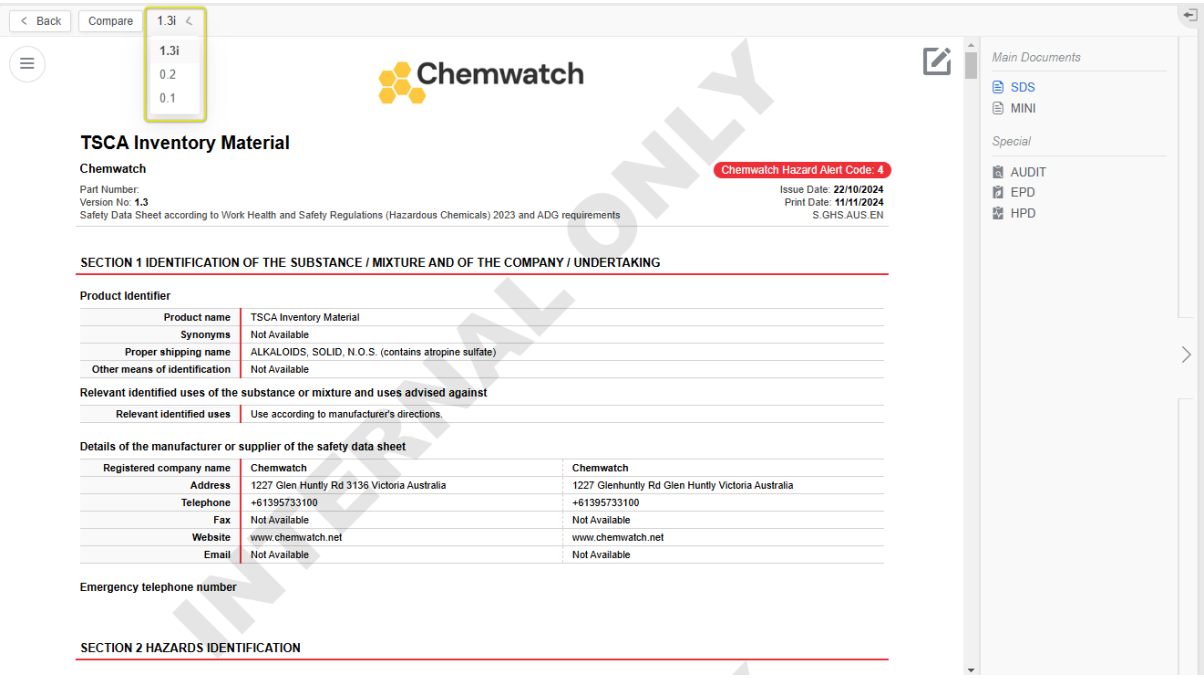
The version number is displayed in the grid's "**Publish**" column and available in Section 1 of the SDS. The table below illustrates an example of SDS iterations for any updates and publishing status of the document attributed to the performed iterations.

Version Number Example	Description
1.1 **i**	i - indicates that the SDS has been updated once and published once internally.
3.5 **e**	e - indicates that the SDS has been updated five times, published three times and final published was done externally.



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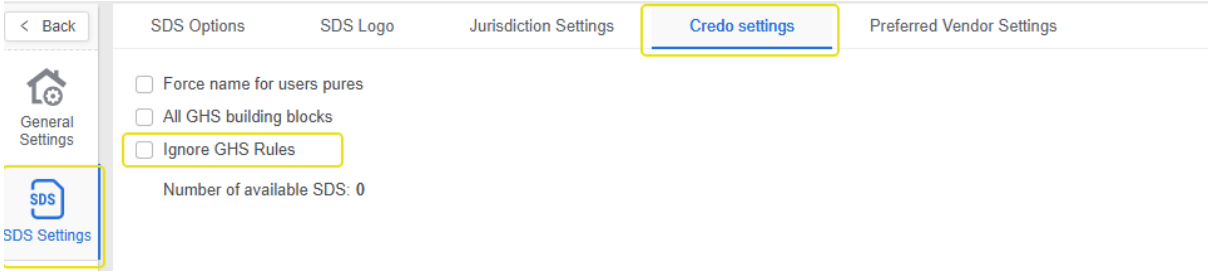
3.2 Credo Settings

Administrative SDS Settings mode provides the administrator to set the Credo Settings for AuthorITe.

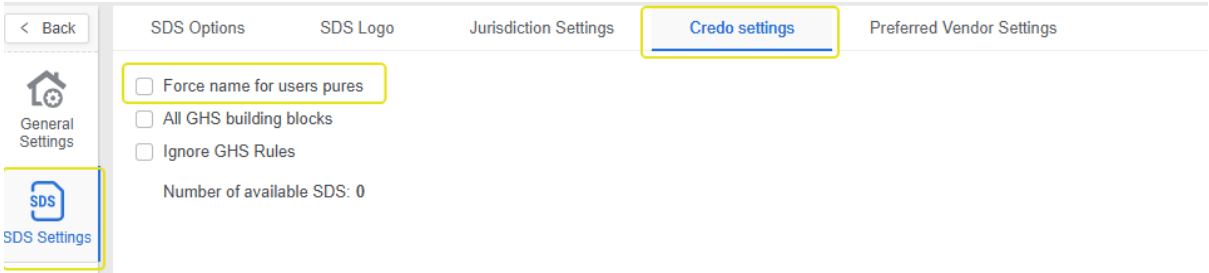
- Force name for users pures
- All GHS building blocks
- Ignore GHS Rules



Credo Setting Attribute	Description
Force name for user pures	Checkbox ☐ to force material name for user pure chemicals.
All GHS building blocks	Checkbox ☐ to enable Credo to provide all GHS building blocks.
Ignore GHS Rules	Checkbox ☐ to ignore GHS Rules. Turning this setting on will allow users to have control of what classifications go onto the SDS.

These settings are only applicable to the Credo/AuthorITe licence package.

Enabling the "**Force name for user pures**" checkbox allows user-created pure SDSs to display chemical names in languages other than English, pulling these names from the synonyms database. An update ensures that the chemical name from the database, not the material name, appears for "User made Pures." A "User made Pure" has a CAS number with an asterisk, while the same CAS (without the asterisk) will appear in the ingredients and will be used as the ingredient name when the "User made Pure" is used as an ingredient.



The "All GHS Building Blocks" setting allows users to display all possible hazard categories, regardless of specific country or jurisdiction regulations. Chemwatch advises against using this

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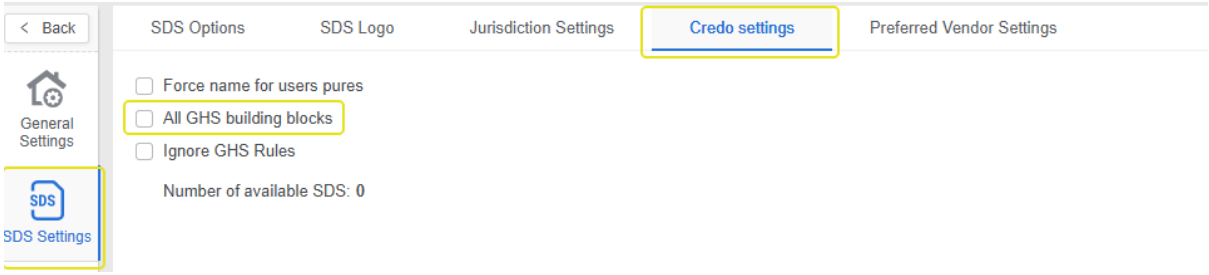
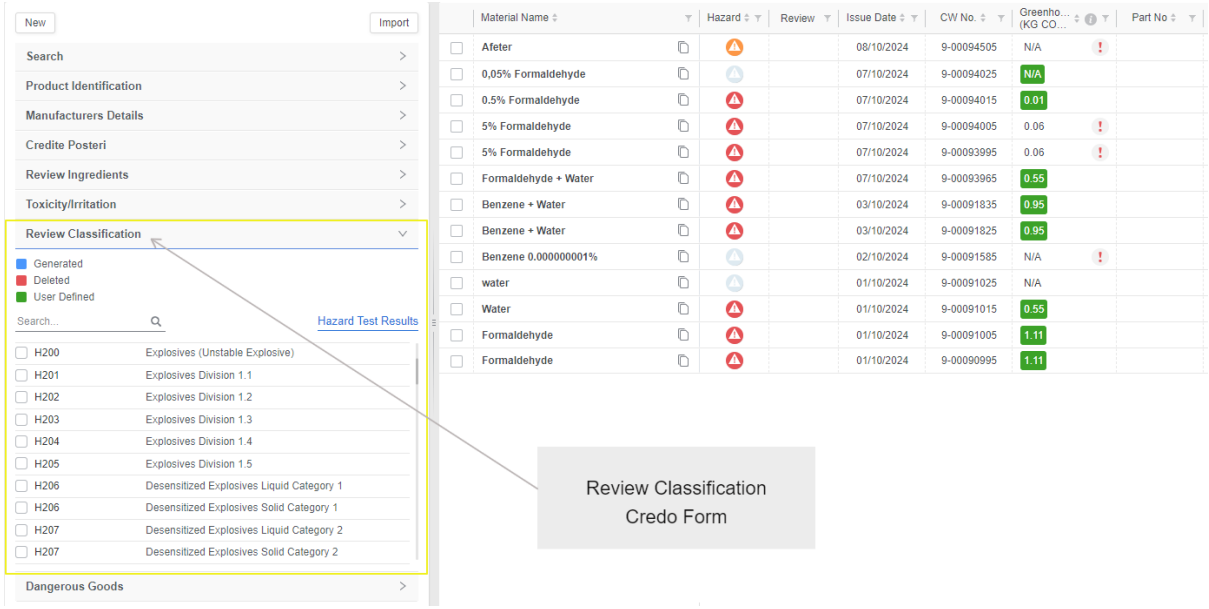
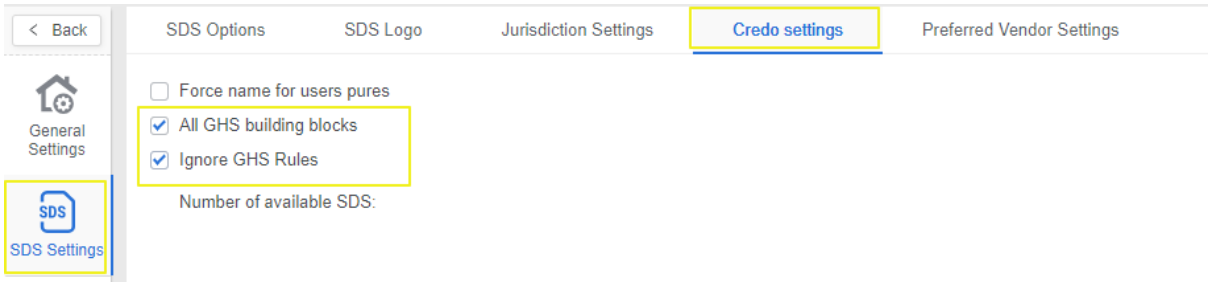
as a default setting, as it is mainly useful for users who do not follow a country-specific set of hazard categories.



When this setting is selected, it will show all building blocks irrespective if the categories are being adopted by the country setting or not in the Review Classification tab of the credo form.



This setting will only be useful to a user who wishes to disregard a country's set of building blocks if "Ignore GS Rules" is ticked together with it.



3.3 Regulatory Burden

Regulatory Burden is a calculation measure of regulation surrounding a substance in the regulatory lists to indicate the level of regulation imposed on the chemicals. This quantitative score is based on the product ingredient(s) and the frequency it shows up on negative or

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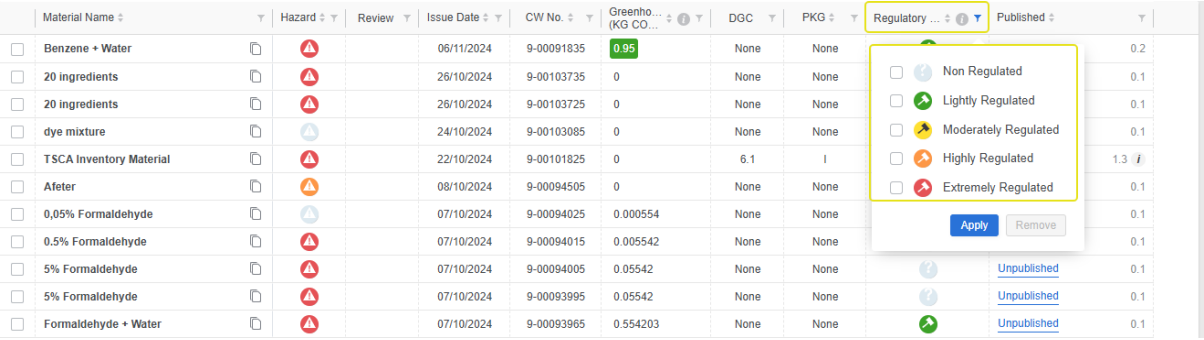
positive regulatory lists. The regulatory burden for Chemwatch Numbers (CW No.) and SDS documents fall in distinctive bands that are colour coded gavels to signal the regulatory level of importance. This signal is displayed within the grid for each authored material as an alert for users to consider the importance of regulations on the product.



Regulatory Burden Gavel	Colour of the Gavel	Level of Regulatory Importance
	Red	Extremely Regulated
	Orange	Highly Regulated
	Yellow	Moderately Regulated
	Green	Lightly Regulated

Chemicals that impose regulatory burdens can impact on an organisation's fundamental chemical management responsibilities with compliance to workplace health and safety regulations. This alert attribute helps to consider the regulatory burden for produced SDSs.

3.4 Phrase Library

The Phrase Library lets users create custom phrases for their authored SDS, with the option to translate them into multiple languages. This feature, also known as the "Phrase Library," allows users to store translations within their domain account. Code phrases serve as placeholders for identification tags linked to specific phrases, enabling multilingual translation storage. The Phrase Library feature is accessible through the Phrase Library Mode on the user interface toolbar.

Adding translations is advantageous compared to manually adding or modifying translations which helps with efficiency in both time and effort. User can also utilise the Phrase Library "Import Tool" to save time for manual uploads one by one.

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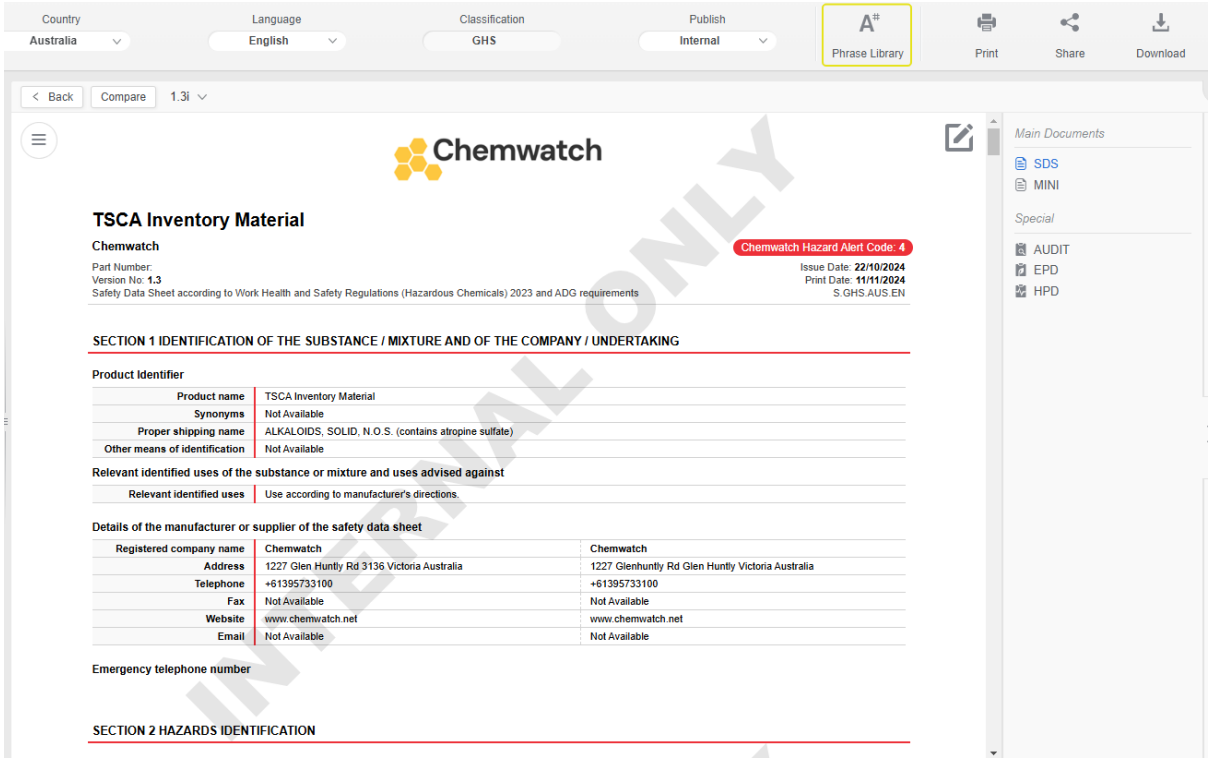
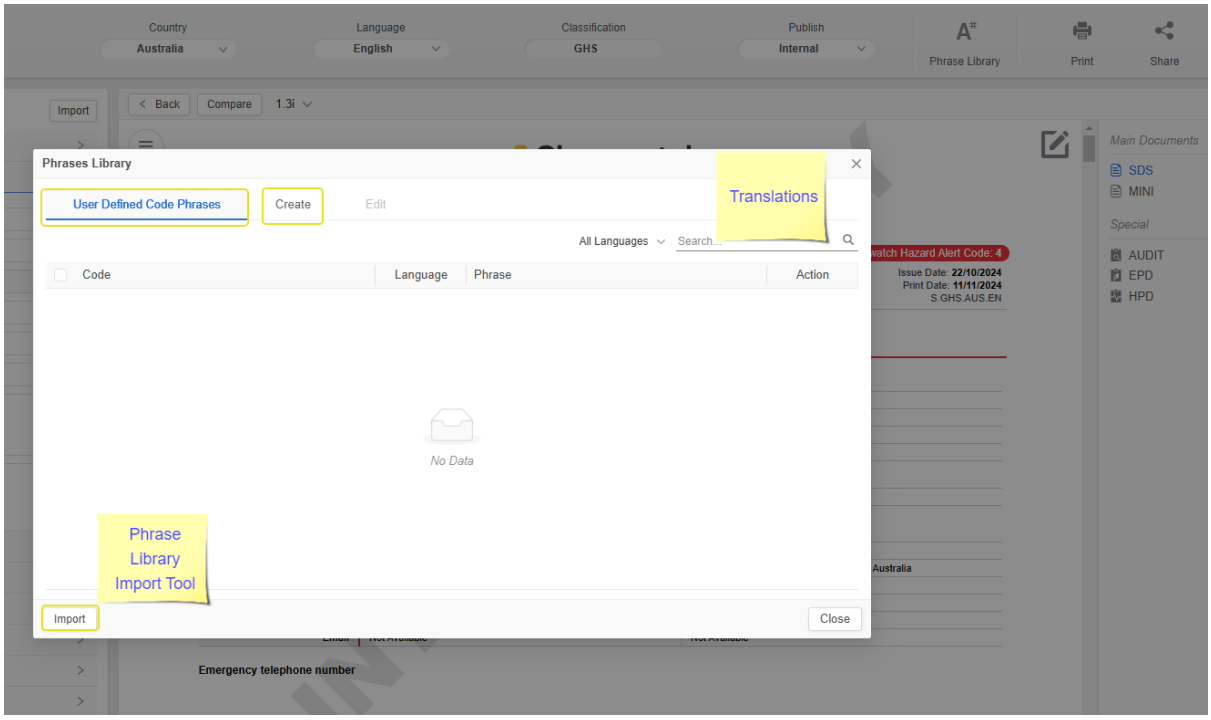


Phrase Library Window



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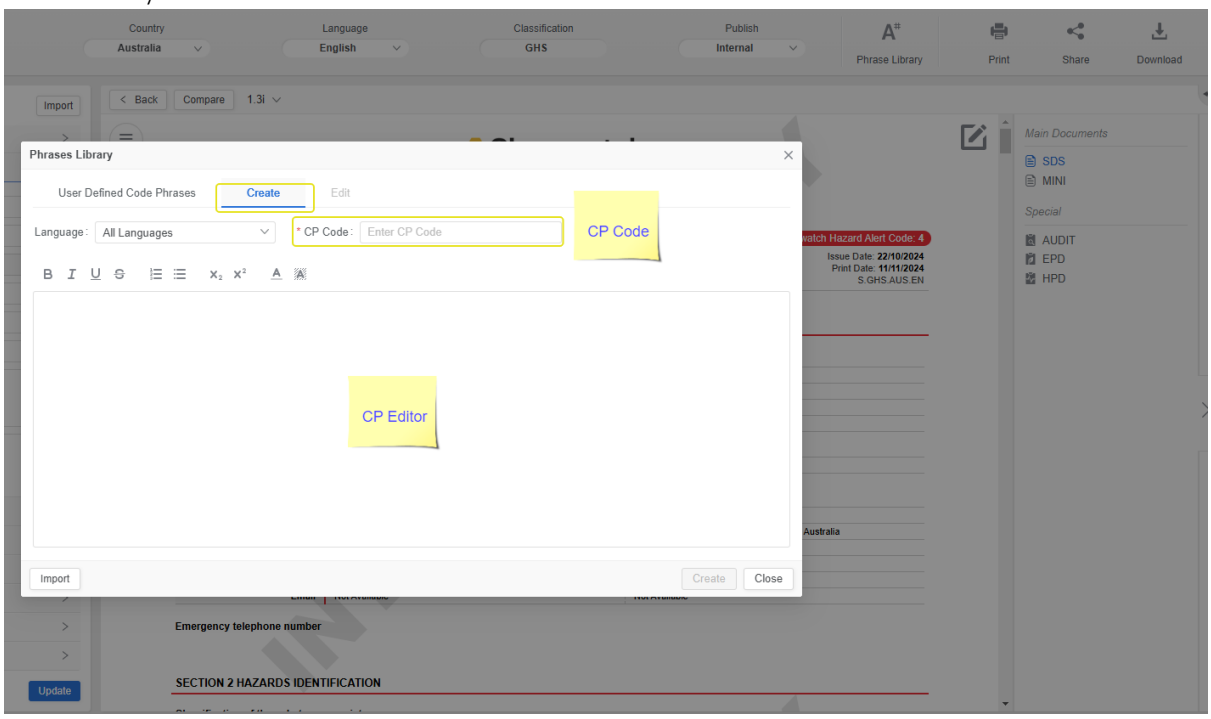
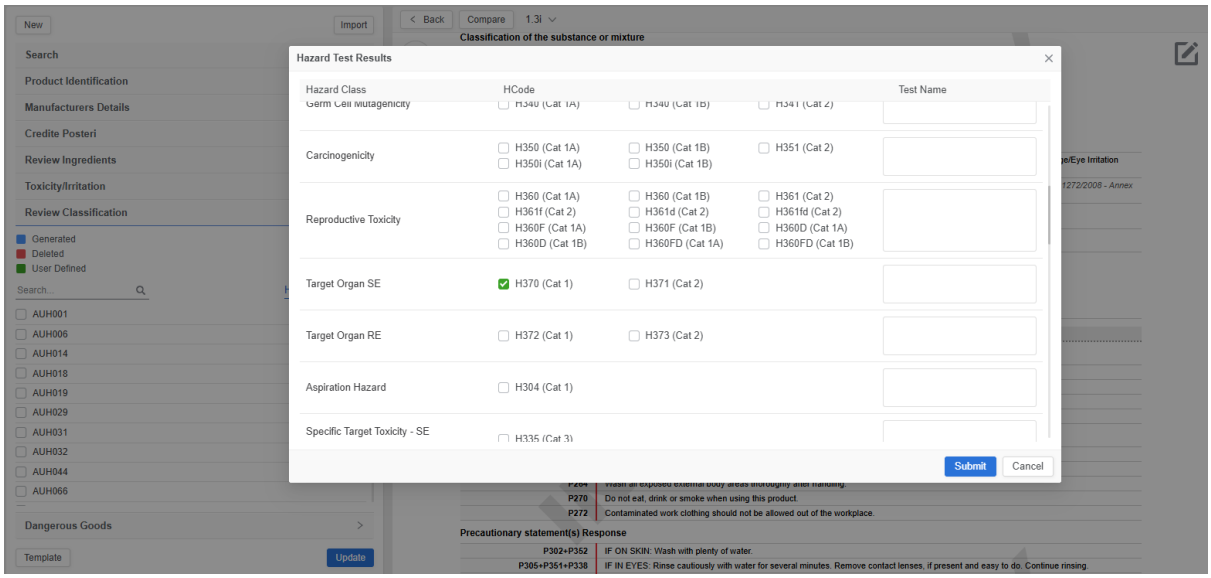
Phrase Library Create Mode



3.5 Specific Target Organ Toxicity (STOT)

The STOT feature in AuthorITe called STOT Selection. Under GHS, specific target organ toxicity (STOT) classifications: H370 (Cat 1), H371 (Cat 2), H372 (Cat 1) and H373 (Cat 2), may come with additional information such as the relevant target organ(s) or biological system(s) affected by this toxicity and/or its route of exposure.



Where these hazards are classified for the material, users can select the affected target organ(s) or biological system(s) from a list and define its route of exposure from these options:

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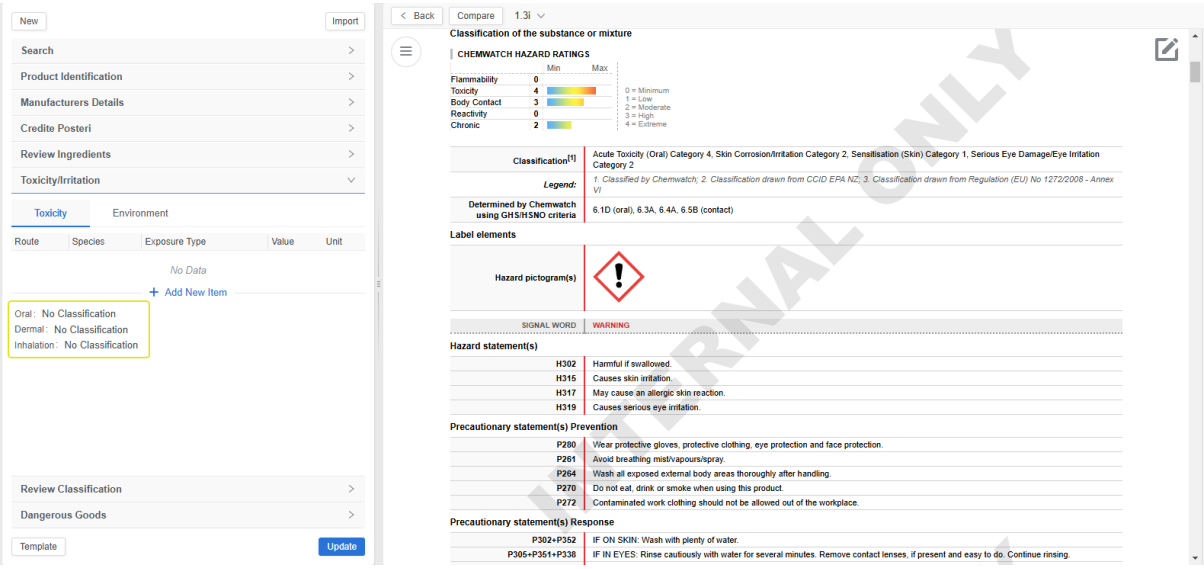
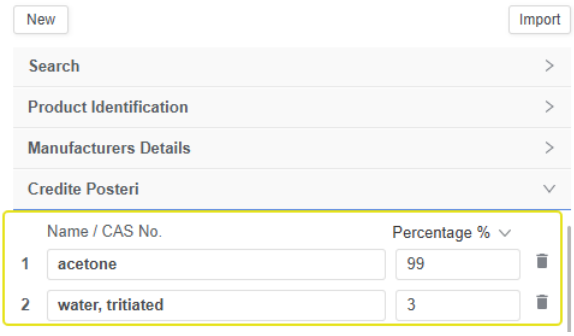
- Oral
- Dermal
- Inhalation.

If any of these target organ(s) or biological system(s) and/or route of exposure is selected, it will be displayed under Section 2 Hazard Statement(s) on the SDS.



3.7 Normalisation of Ingredient Proportion

The Normalisation feature automatically normalises ingredient proportions when the total concentration exceeds 100% in a mixture.



This adjustment is reflected in the Credite Posteri Form and carried over to the Review Ingredient section of the form. If your data should be normalised, the system will display a pop-up message to notify you.

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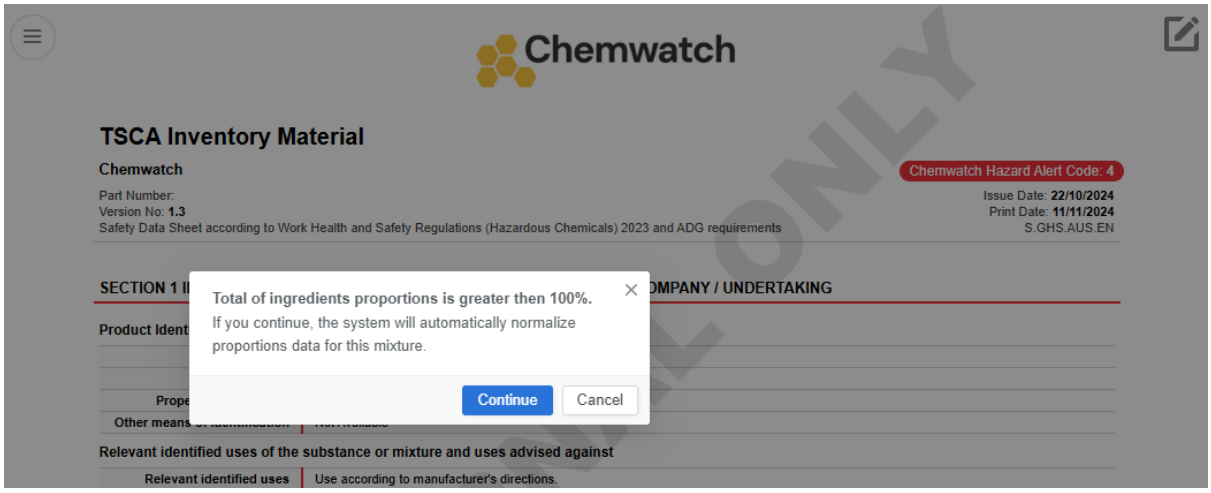
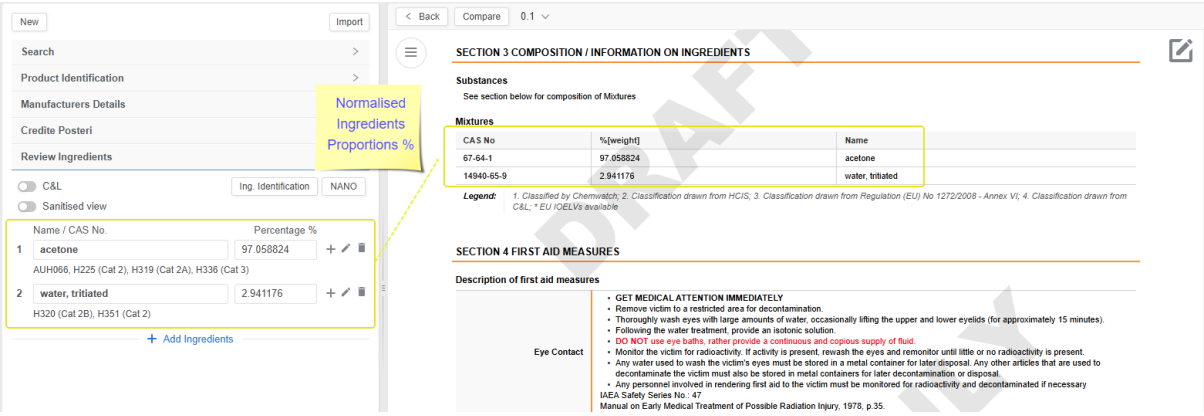


Upon normalisation of the ingredients proportions %, the system generates the normalised % proportions and the data will be reflected in the Review Ingredients form and Section 3 of the SDS.



3.8 Toggling Display/Hide TEEL Data Setting

The SDS includes United States TEEL (Temporary Emergency Exposure Limits) for substances in Section 8. Clients have argued that this information is not relevant and should be removed from the non-US SDS. To enhance user convenience, a jurisdiction setting has been implemented to allow users to choose whether to display or hide this data based on jurisdictional location.

TEELs are guidelines designed to predict the emergency response of the public to different concentrations of a chemical during an emergency response incident. They estimate the concentrations at which most people will begin to experience health affects due to hazardous airborne chemical exposure for a specific duration. Chemicals may have up to three TEEL values which corresponds to specific tier of health effects" TEEL-1, TEEL-2, and TEEL-3.

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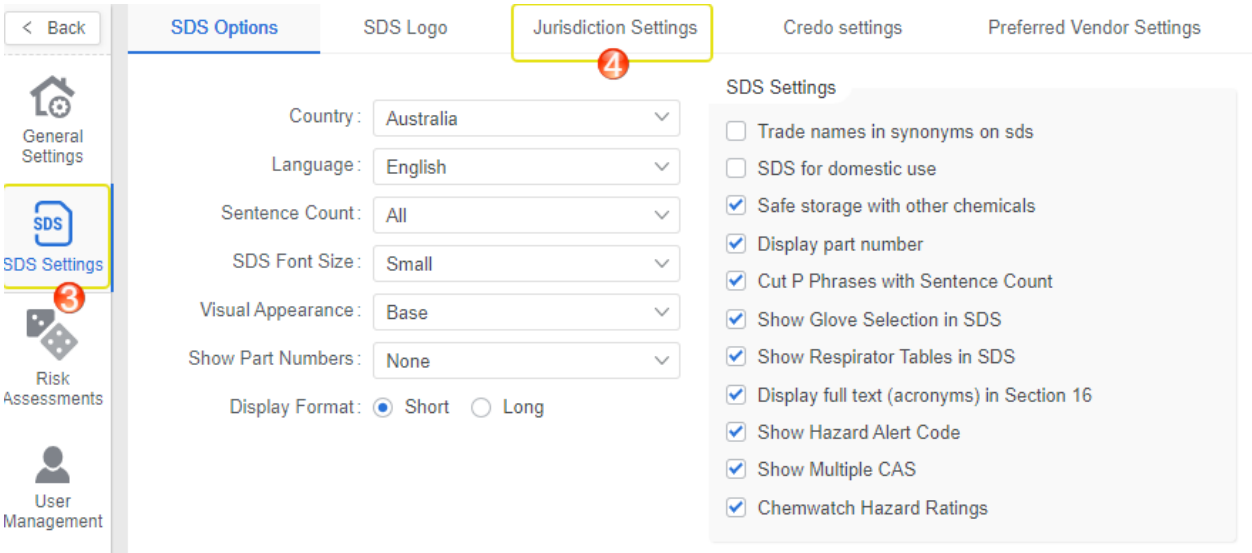
TEEL Tier	Description	Exposure
TEEL-3	Airborne concentration expressed as ppm [part per million] or [mg/m^3] [milligrams per cubic meter] of a substance	>1hour could experience life-threatening adverse health effects.
TEEL-2	Airborne concentration expressed as ppm [part per million] or [mg/m^3] [milligrams per cubic meter] of a substance	>1hour could experience life-irreversible or other serious, long-lasting, adverse health effects or impaired ability to escape.
TEEL-1	Airborne concentration expressed as ppm [part per million] or [mg/m^3] [milligrams per cubic meter] of a substance	>1hour could experience notable discomfort, irritation or certain asymptotic, non-sensory effects, not disabling and reversible upon cessation of exposure.

Steps to Show TEEL Emergency Limits on SDS

1. Open the **System**.
2. Click on the **Settings** button ⚙.
3. Click the **SDS Settings** button.
4. Click on **Jurisdiction Settings** tab.
5. Choose **Country,** United States from the countries dropdown list.
6. Select the **Show TEEL Emergency Limits Checkbox** alongside the country applied.
7. Select the **Show TEEL Emergency Limits Checkbox** alongside the country applied.
8. Click the **Save** button.
9. **Open SDS** for material in AuthorITe module.
10. Use the SDS Sections Menu and select **Section 8** (Exposure Controls/Personal Protection) for detailed information on Emergency Limits table for ingredients **TEEL Tiers**.



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Jurisdiction Settings – Show TEEL Emergency Limits

SDS Options | SDS Logo | Jurisdiction Settings | Credo settings | Preferred Vendor Settings

Countries	SDS Format	Copyright Statement	ECHA Summary	Full text phrases for codes in Section 16	GHS Classification (GHS)	Hide Environmental Classification	SDS Version Summary	NFPA Diamond	Show TEEL	Show HSNO Codes
5		☑	☐	☑	☑	☐	☑	☐	☐	☐
Country Germany	REACH	☑	☑	☑	☑	☐	☑	☐	☐	☐
Great Britain	REACH	☑	☑	☑	☑	☐	☑	☐	☐	☐
New Zealand	GHS	☑	☐	☑	☑	☐	☑	☐	☐	☑
United States	GHS	☑	☐	☑	☑	☐	☑	☑	6 ☑	☐
Canada	GHS	☑	☐	☑	☑	☐	☑	☐	☐	☐
Australia	GHS	☑	☐	☑	☑	☐	☑	☐	☐	☐

AuthorITe Module – Documents SDS Selection

GoldFFX — Materials / Archive — Import History — Phrase Library — Print Out

Home, Risk Assessments, Industrial Hygiene, SISOT, Label Designer, AuthorITe, Approvals, Registration Request

New — Import

Search

Product Identification

* Material Name: TSCA Inventory Material
Part Number:
REACH Reg. No.:
* Issue Date: 22/10/2024
CAS No.:
EC No.:
UFI Numbers
UFI Generator
Uses:

Manufacturers Details
Credite Posteri
Review Ingredients
Toxicity/Irritation
Review Classification
Dangerous Goods

Template — Update

Material Name	Hazard	Review	Issue Date	CW No.	Greenho... (KG CO...	Part No	DGC	DGS1	DGS2	PKG	Regulatory ...
TSCA Inventory Material			22/10/2024	9-00101825	N/A		6.1	None	None	I	
Afeter				9-00094505	N/A		None	None	None	None	
0,05% Formaldehyde				9-00094025	N/A		None	None	None	None	
0.5% Formaldehyde			07/10/2024	9-00094015	0.01		None	None	None	None	
5% Formaldehyde			07/10/2024	9-00094005	0.06		None	None	None	None	
5% Formaldehyde			07/10/2024	9-00093995	0.06		None	None	None	None	
Formaldehyde + Water			07/10/2024	9-00093965	0.55		None	None	None	None	
Benzene + Water			03/10/2024	9-00091835	0.95		None	None	None	None	
Benzene + Water			03/10/2024	9-00091825	0.95		None	None	None	None	
Benzene 0.000000001%			02/10/2024	9-00091585	N/A		None	None	None	None	
water			01/10/2024	9-00091025	N/A		None	None	None	None	
Water			01/10/2024	9-00091015	0.55		None	None	None	None	
Formaldehyde			01/10/2024	9-00091005	1.11		None	None	None	None	
Formaldehyde			01/10/2024	9-00090995	1.11		None	None	None	None	

8 SDS Mini Audit LOC EPD HPD

25 Items per page — 1 — 1–14 / 14

SDS Display – Section 8: Exposure Controls/Personal Protection

Back | Compare | 0.3

In addition, where inner packagings are glass and contain liquids of packing group I and II there must be sufficient inert absorbent to absorb any spillage *.
-
* unless the outer packaging is a close fitting moulded plastic box and the substances are not incompatible with the plastic.

All inner and sole packagings for substances that have been assigned to Packaging Groups I or II on the basis of inhalation toxicity criteria, must be hermetically sealed.

Storage incompatibility	• Avoid reaction with oxidising agents

+ × O × + + O

× – Must not be stored together
O – May be stored together with specific preventions
+ – May be stored together
Note: Depending on other risk factors, compatibility assessment based on the table above may not be relevant to storage situations, particularly where large volumes of dangerous goods are stored and handled. Reference should be made to the Safety Data Sh... risks assessed accordingly.

TEEL Emergency Limits Data Tiers 1,2,3 as per TSCA Inventory

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

OCCUPATIONAL EXPOSURE LIMITS (OEL)

INGREDIENT DATA

Not Available

EMERGENCY LIMITS

Ingredient	TEEL-1	TEEL-2	TEEL-3
TSCA Inventory Material	Not Available	Not Available	Not Available

Ingredient	Original IDLH	Revised IDLH
atropine sulfate	Not Available	Not Available
N-ethyl-4-nitroaniline	Not Available	Not Available
2,3-dichlorophenol	Not Available	Not Available
chlorohydroquinone	Not Available	Not Available
1 ,3-(1,1,2,2-tetrafluoroethoxy)benzene	Not Available	Not Available

DRAFT ONLY

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Appendix

Summary Structure of SDS

Comprehensive SDS structure requirements are available in the code of practice for the preparation of 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 • Suppliers 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

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	• 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

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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

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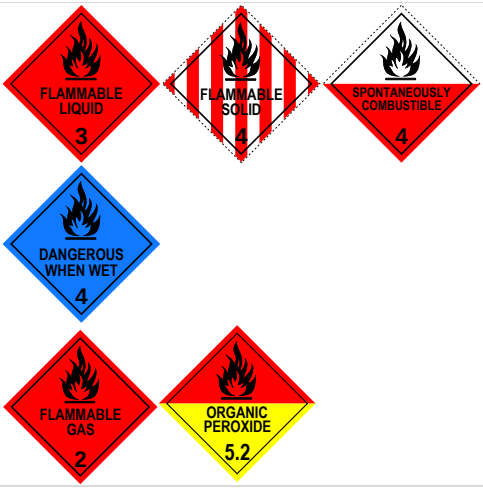
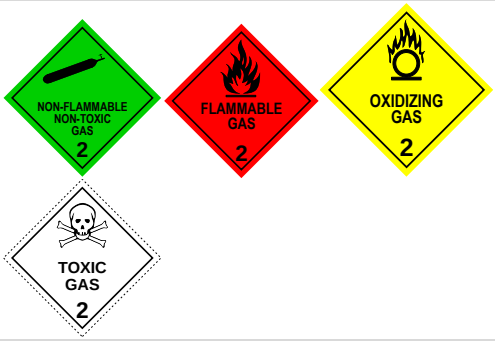
GHS Pictogram and DG Diamonds

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-reactive 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

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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

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Not covered within the scope of workplace hazardous chemicals requirements		Radioactive

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 MSDS 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 MSDS.

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)

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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)
₩	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)

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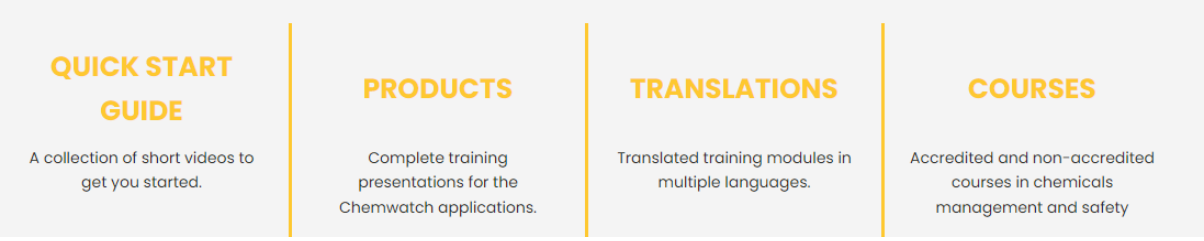

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IT'S NOT THE HAZARD IT'S THE RISK!

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