

USING CHEMALERT (V4.1)

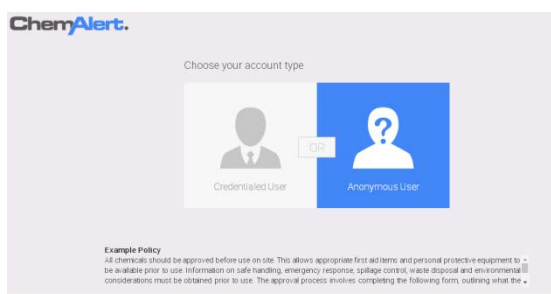
WHAT IS CHEMALERT?

ChemAlert (v4.1) is a web based chemical information database, which allows you to search for a chemical and then print a safety data sheet (SDS), ChemAlert report, GHS report or label. An SDS for a chemical contains information such as potential health hazards, first aid information, safe handling instructions, procedures for dealing with spills and advice on the appropriate protective equipment to be used.

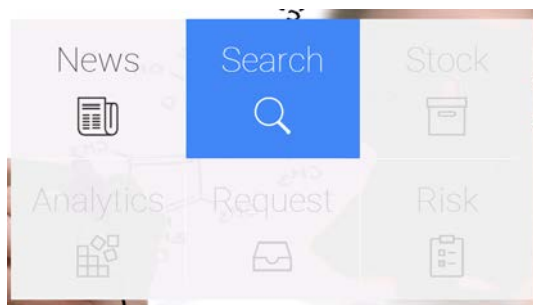
Please note: to access the information in the ChemAlert database you will need to set your internet browser to allow pop-up windows from the ChemAlert website. A Unikey will be required to access ChemAlert when off campus.

SEARCHING FOR A SAFETY DATA SHEET

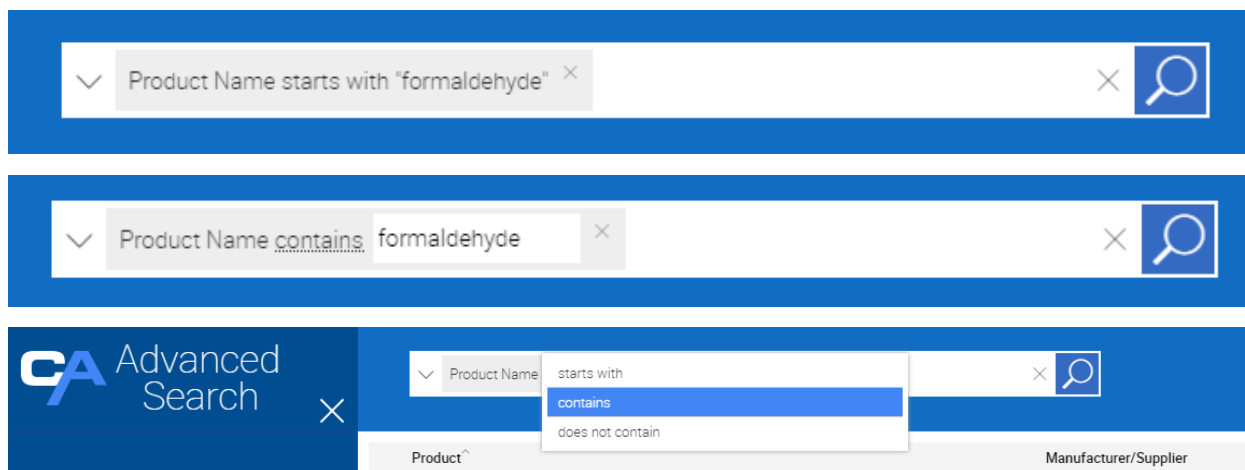
1. Select the "Anonymous" account to login.



2. To search for a chemical choose the "Search" box.



3. Simply type the chemical name into the search box and click on the search icon to retrieve information.
4. Double clicking on the search box allows parameters to be set for the text of the chemical name. For example, if formaldehyde is typed in as the chemical name the search criteria can be set so that the results to be returned can start with, contain, or do not contain the word formaldehyde. In this way searches can be broadened or refined.



5. Click in the search box again to add more parameters to the search criteria. These parameters include the product name, manufacturer/ supplier, chemical name synonym or CAS number. Multiple parameters will act to narrow the search results.

The screenshot shows a search interface with two criteria: "Product Name contains 'formaldehyde'" and "Manufacturer/Supplier contains 'Merck'". A dropdown menu is open, listing various search parameters. The "Manufacturer/Supplier" parameter is selected. Below the menu, a list of search results is displayed, each with a color-coded bar on the left and a supplier name on the right.

Search Parameter	Value
Product Name	Hazardous/Dangerous
Product Name/Synonym	DG Class/Division
Synonym	Risk Phrase
Use	GHS Hazard Code
Manufacturer/Supplier	Poison Schedule (Aus)
Ingredient Name	Appearance
Ingredient CAS Number	Odour
United Nations Number	Updated Product
Stock Number	Updated SDS
Barcode	SDS Format Type
Colour Rating	

Product Name	Manufacturer/Supplier
PARAFORMALDEHYDE	VWR INTERNATIONAL, PTY LTD
PARAFORMALDEHYDE FOR SYNTHESIS	MERCK PTY LIMITED
PARAFORMALDEHYDE SUITABLE FOR USE AS EXCIPIENT EMPROVE EXP DAC	MERCK PTY LIMITED

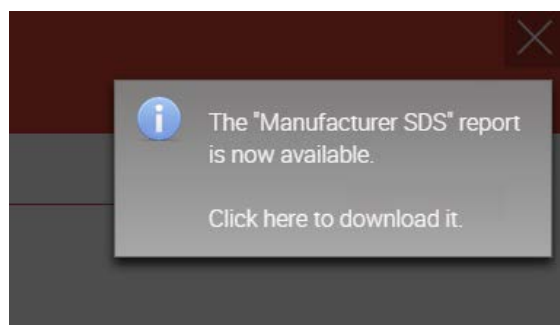
6. A number of results matching your search criteria are display which may require you to scroll down the page to see all of the results. Select the chemical supplier for the chemical you are using.

Note: the list is colour coded: red, amber and green as previously. This is a ChemAlert colour coding that indicates hazard severity of each chemical.

The screenshot shows a table of search results. The first row is highlighted in blue. The table has four columns: Product, Manufacturer/Supplier, Colour, and SDS.

Product	Manufacturer/Supplier	Colour	SDS
FORMALDEHYDE 36% (39% W/V) ANALAR NORMAPUR ACS, REAG. PH. EUR. ANALYTICAL REAGEN...	VWR INTERNATIONAL LTD (UK)	Amber	SDS
FORMALDEHYDE 40% SOLUTION GR FOR ANALYSIS	MERCK PTY LIMITED	Amber	SDS
FORMALDEHYDE DIMETHYL ACETAL FOR SYNTHESIS	MERCK PTY LIMITED	Amber	SDS
FORMALDEHYDE SOLUTION 4% BUFFERED (PH 6.9) (APPROX. 10% FORMALIN SOLUTION) FOR HIS...	MERCK PTY LIMITED	Amber	SDS
FORMALDEHYDE SOLUTION MIN. 37% GR FOR ANALYSIS STABILIZED WITH ABOUT 10% METHANO...	MERCK PTY LIMITED	Amber	SDS
FORMALDEHYDE SOLUTION MIN. 37% STABILIZED WITH ABOUT 10% METHANOL PH EUR, BP, USP	MERCK PTY LIMITED	Amber	SDS
FORMALDEHYDE TEST METHOD: COLORIMETRIC WITH TEST STRIPS AND REAGENT 10 - 20 - 40 - ...	MERCK PTY LIMITED	Red	SDS
PARAFORMALDEHYDE	VWR INTERNATIONAL, PTY LTD	Amber	SDS
PARAFORMALDEHYDE FOR SYNTHESIS	MERCK PTY LIMITED	Amber	SDS
PARAFORMALDEHYDE SUITABLE FOR USE AS EXCIPIENT EMPROVE EXP DAC	MERCK PTY LIMITED	Amber	SDS

7. Click the SDS link to directly view the Manufacturer's SDS. Then the following message will appear.



8. To directly access information, ChemAlert reports and labels for a particular chemical, double click on the chemical name. A page will appear with the following tabs on the left hand side. Each tab has a number of information pages, which breaks down the information available in an SDS. The last tab "Report" allows the full SDS, to be view or printed.

TABS	Different sections within a tab	
Identification	Identification	Chemical name, supplier details, synonym, uses
	Ingredients	
	Reference	
Classifications	Risk/Safety	Approved Criteria risk and safety phrases, Poison Schedule
	Transport	Dangerous Goods Classes, Packing Groups, UN number
	GHS	GHS pictograms, signal word, hazard and precautionary statements
Emergency	First Aid	Response for exposure, inhalation, skin and eye contact, ingestion
	Emergency	Extinguishing media, special hazards, HAZCHEM code,
	Protection	Personal Protective Equipment (PPE), Exposure Standards,
Information	Health	Toxicological information, Toxicity data (LD ₅₀)
	Environment	Ecological toxicity data, persistence and bio-accumulative potential
	Properties	Physicochemical data, pH, boiling point, flashpoint, lower explosion limit (LEL), upper explosion limit (UEL) etc
	Storage	Storage precautions, stability and reactivity, disposal
Reports	Reports	Manufacturer SDS, GHS ChemAlert reports, Transport reports,
	Labels	Varying sizes 1 label/A4 page through to 65 labels/A4 page

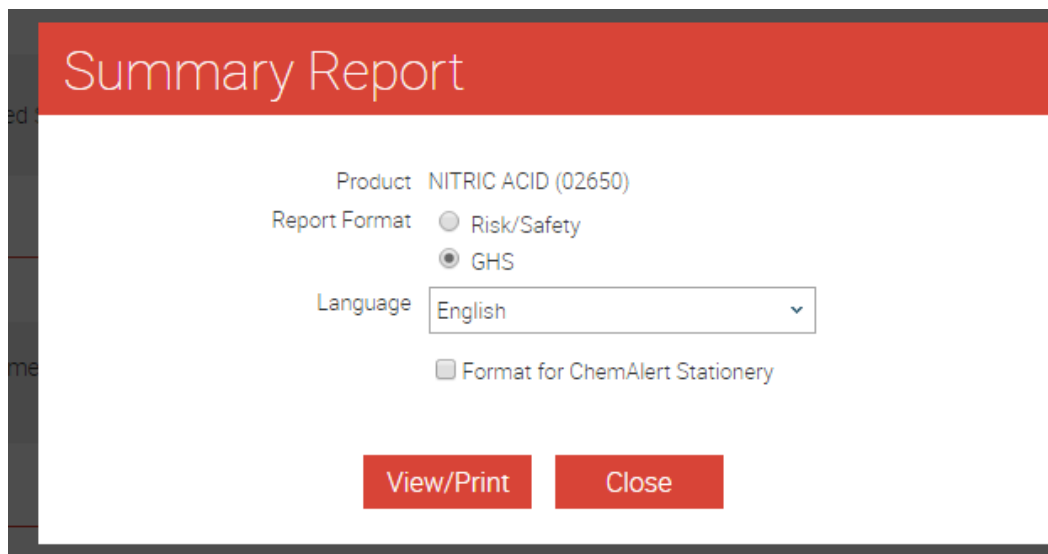
The screenshot displays the ChemAlert interface for Nitric Acid (02650). The interface is organized into a sidebar on the left and a main content area. The sidebar contains navigation tabs: Identification, Classifications, Emergency, Information, and Reports (which is currently selected and highlighted in red). The main content area is divided into several sections, each with a red header bar and a list of available documents or reports:

- MANUFACTURER SDS:** Includes an 'Upload' button and two document cards: 'Manufacturer SDS Australia (English) 20-Jan-2015' and 'Manufacturer SDS by Region/Language'.
- CHEMICAL REPORTS:** Includes four document cards: 'Summary Report', 'GHS Classification Summary Report', 'Extended Summary Report', and 'Full Report'.
- TRANSPORT REPORTS:** Includes three document cards: 'Emergency Procedure Guide (EPG)', 'Emergency Information Panel (EIP)', and 'Initial Emergency Response Guide'.
- RISK ASSESSMENT:** Includes one document card: 'Product Risk Assessment (Template)'.

At the bottom of the interface, there are two options: 'REPORTS' and 'LABELS'.

VIEWING AND PRINTING SAFETY DATA SHEETS

9. Select the **Reports** tab.
10. Select the **report type** you wish to view print. The following report types are available
 - Summary Report (1 Page)
 - Extended Summary Report (2 Page)
 - Full Report (16 Header Report NOHSC format)
 - GHS Report (This report gives detailed GHS information including all hazard and precautionary statements and codes).
 - Manufacturer SDS (SDS can be printed for other regions other than Australia)
11. Select the **report format**. GHS or Approved criteria risk and safety phrases can be selected for summary, extended and full reports.

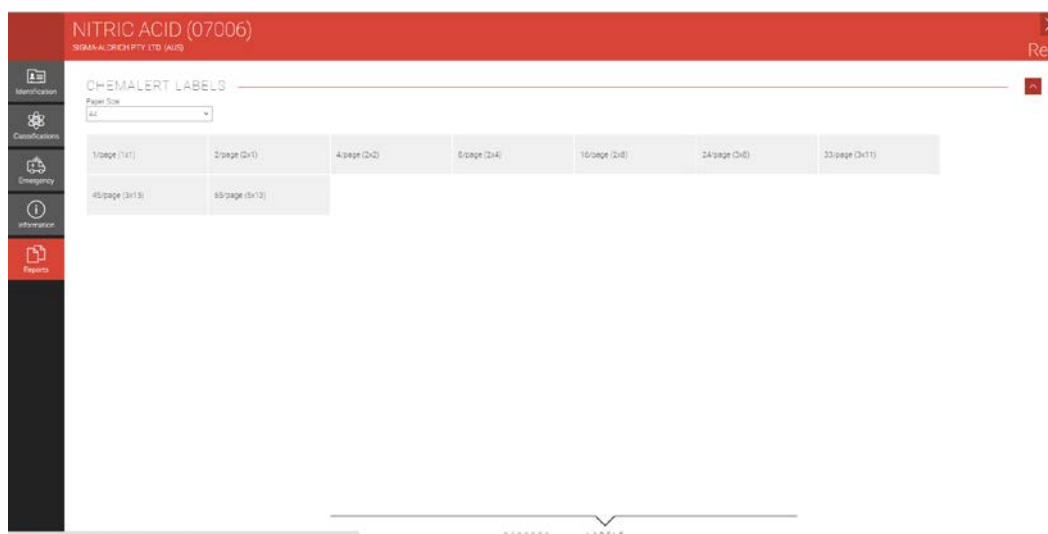


12. Click on "**View/Print**" button to generate the report.
13. ChemAlert will then prompt you to either view then print the document as a PDF file or save the file to disk.

PRINTING LABELS

ChemAlert labels for any chemical in the database can be printed directly onto an A4 sheet of sticky labels.

13. The **Report** tab is also used to select **labels** for differently sized chemical label templates.



14. Select the **label size**.

15. A preview of the label sheet will be given when “**view / print**” is selected. Labels can be saved as PDF or printed immediately. Position of a label on the sheet can be selected.

CHEMICAL COLOUR CODING

Both ChemAlert reports and labels are colour coded to indicate hazard severity of a chemical during normal use:

- Red** high hazard
- Amber** moderate hazard
- Green** low hazard

ALTERNATE VIEWS

The standard view for search results is shown as a list. Using the icons at the bottom of this page will change the view.

Product	Manufacturer/Supplier	Colour	SDS	Stock Status	Modules
NITRIC ACID	SIGMA-ALDRICH COMPANY LTD. UK	Red	SDS		
NITRIC ACID (02550)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (07006)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (225711)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (258113)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (30702)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (438073)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (695041)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (78005)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID (84385)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID 68%	SIGMA-CHEMICALS PTY LTD.	Red	SDS		
NITRIC ACID SOLUTION (319163)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID SOLUTION (35278)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID SOLUTION (35315)	SIGMA-ALDRICH PTY. LTD. (AUS)	Red	SDS		
NITRIC ACID / DIPICOLINIC ACID CONCENTRATE (61905)	SIGMA-ALDRICH PTY. LTD. (AUS)	Amber	SDS		
NITRIC ACID CONCENTRATE (16355)	SIGMA-ALDRICH PTY. LTD. (AUS)	Amber	SDS		

This alternate view can be used to select and sort results.

NITRIC ACID SIGMA-ALDRICH COMPANY LTD. UK Red SDS	NITRIC ACID (02550) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID (07006) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS
NITRIC ACID (225711) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID (258113) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID (30702) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS
NITRIC ACID (438073) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID (695041) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID (78005) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS
NITRIC ACID (84385) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID / DIPICOLINIC ACID CONCENTRATE (61905) SIGMA-ALDRICH PTY. LTD. (AUS) Amber SDS	NITRIC ACID 68% SIGMA-CHEMICALS PTY LTD. Red SDS
NITRIC ACID CONCENTRATE (16355) SIGMA-ALDRICH PTY. LTD. (AUS) Amber SDS	NITRIC ACID SOLUTION (319163) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS	NITRIC ACID SOLUTION (35278) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS
NITRIC ACID SOLUTION (35315) SIGMA-ALDRICH PTY. LTD. (AUS) Red SDS		