

Instructions for Accessing and Using Gold FFX MSDS Databases for Purchasing and Safety Information

Using Gold FFX

Connecting to FFX

- Access **Library** via University of Auckland Homepage
- Access **Database**
- Select “**G**” and then scroll through databases and select **Gold FFX**
- Connect to GoldFFX

You will then be linked to a connection to GoldFFX

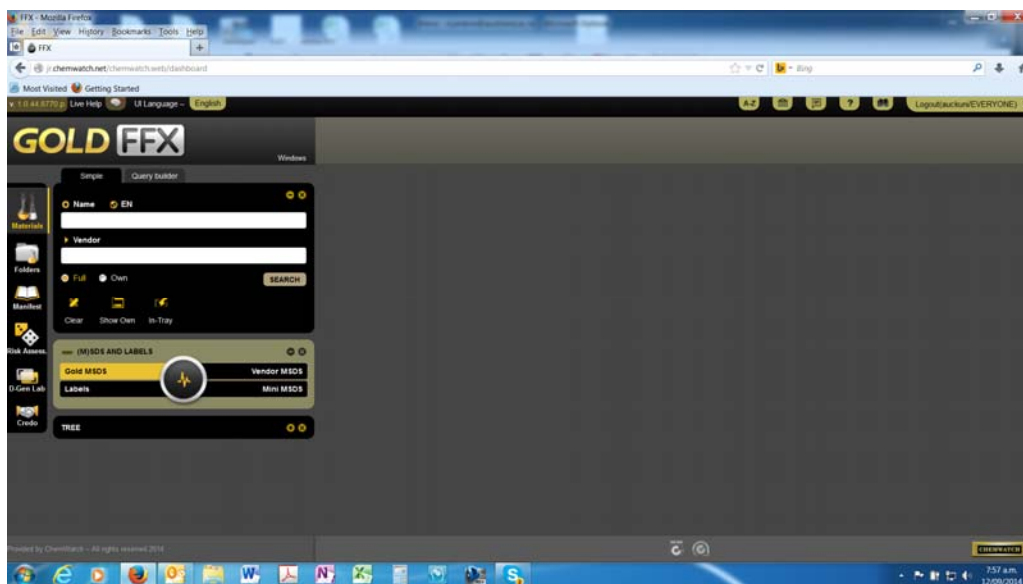
[Hint: Add Gold FFX Connect Page to Favourites – it is not recommended that you shortcut the Gold FFX site directly as the University connection may be rerouted without warning]

Before You Start

Please note that FFX information is available through MSDS rather than webpages

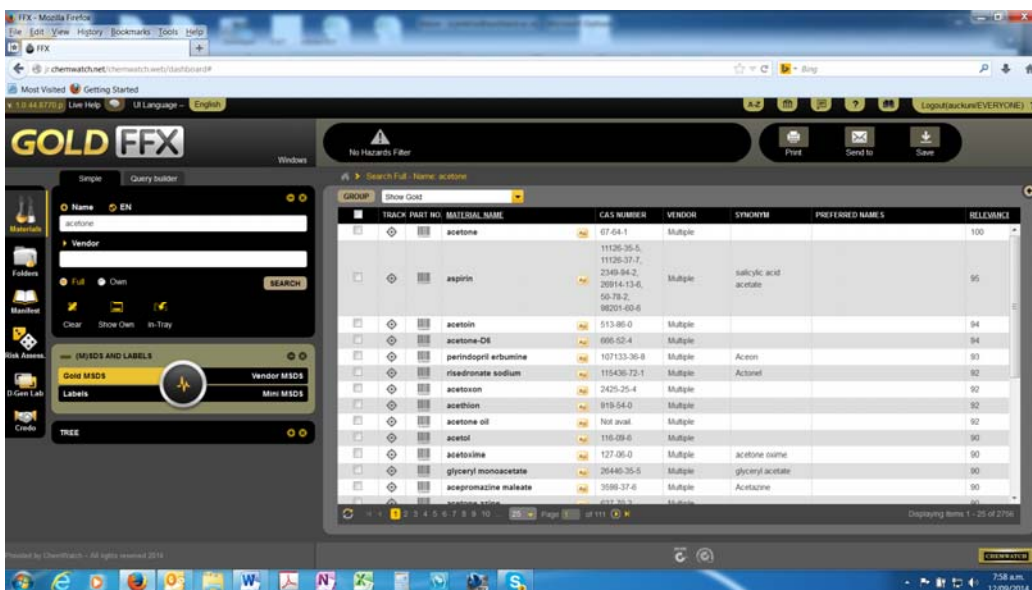
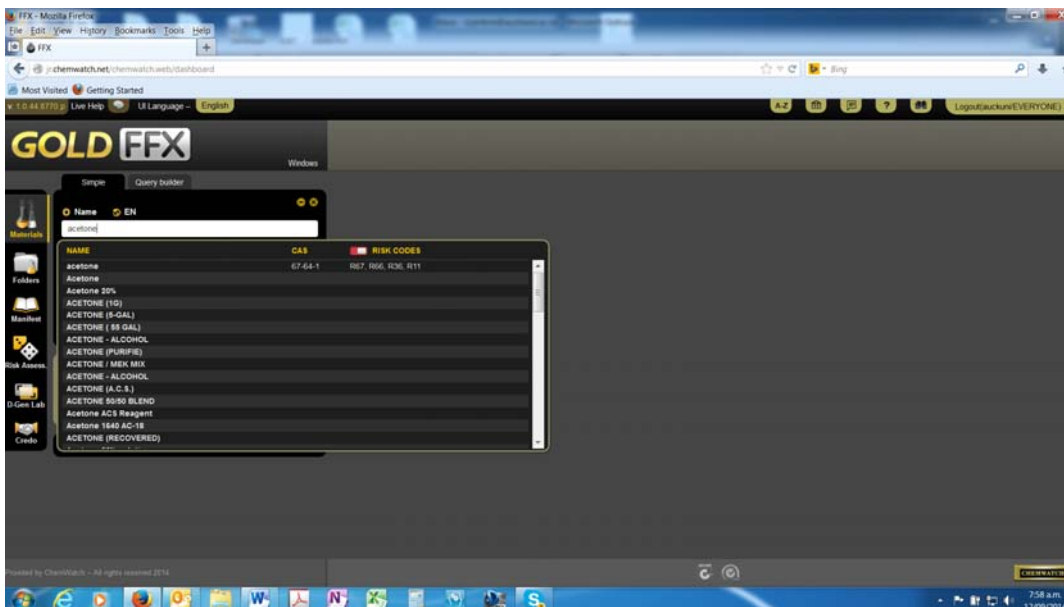
Performing a Search

You will be presented with a single page with full functionality and a search engine section

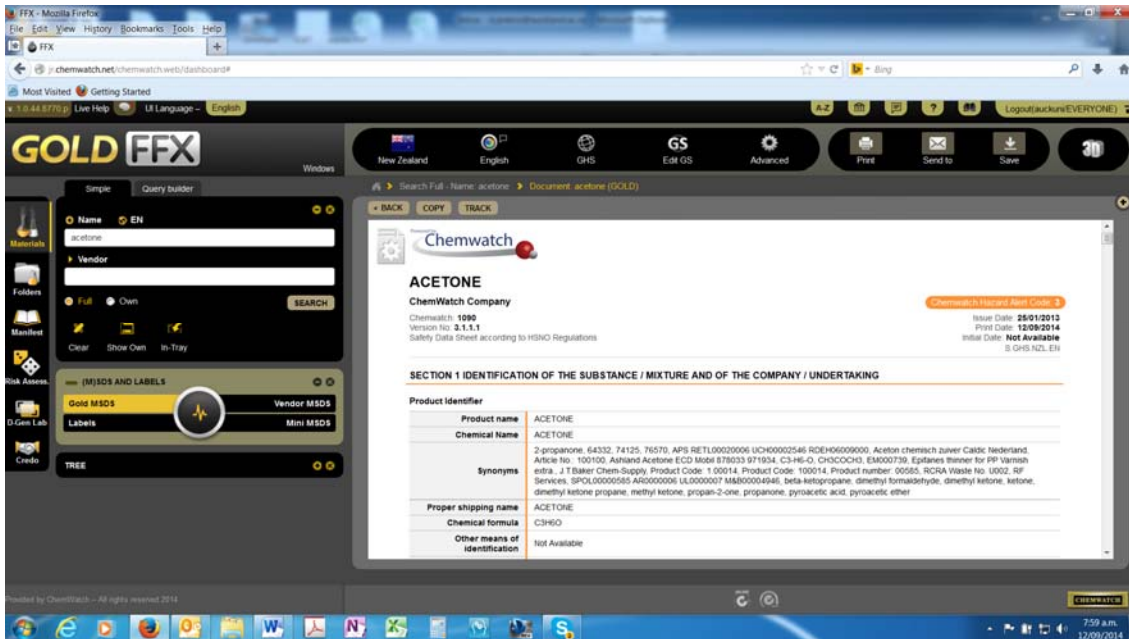


Functionality is grouped into 6 sets of buttons on the LHS – most of these are for manifest and inventory. You will only require the top button “Materials”

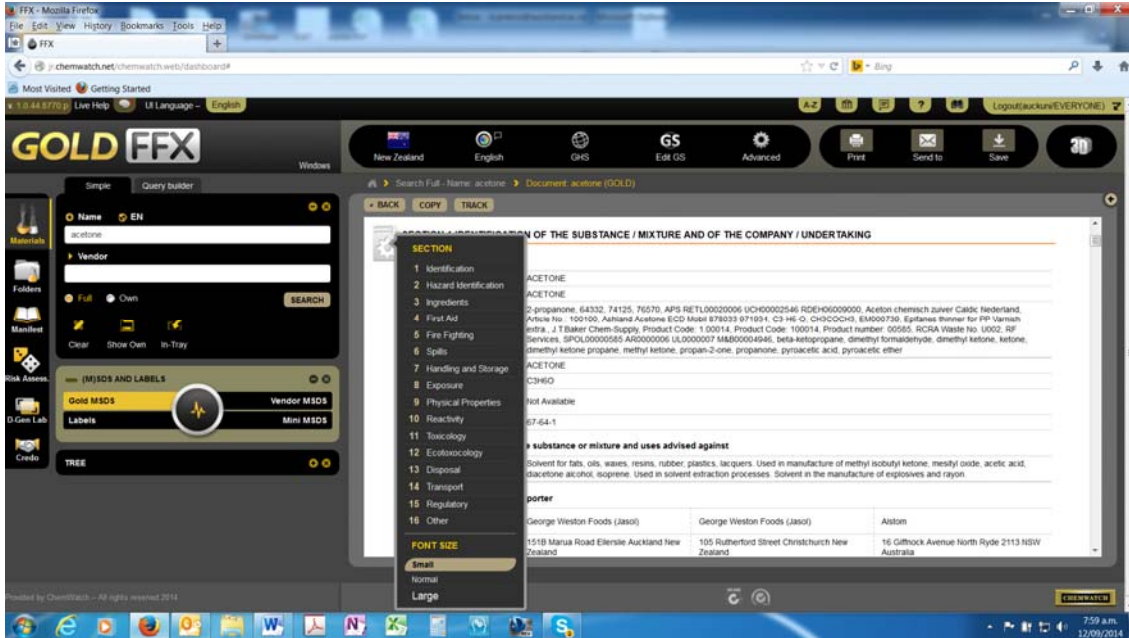
1. Ensure the simple tab is selected
2. Ensure you have ‘Name’ Radio Button. **Also be sure you have ‘Full’ radio button and ‘Own’ button is NOT checked**
3. Enter the name of the compound. The search engine uses predictive text so you will be presented with arrange of options.
4. You will then be presented with the results of the search engine screen which will present you with a range of compounds - select the compound descriptor that matches your item.



1. Select 'Gold MSDS' in the 'MSDS and labels' panel



Click on wheel icon on top LHS of the Gold MSDS to get thumbnail of the sections



The Hazard Identification section

The screenshot shows the GOLD FFX software interface. The main content area displays the 'SECTION 2 HAZARDS IDENTIFICATION' for Acetone. It includes a classification statement: 'Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation. Classified as Dangerous Goods for transport purposes.' Below this, there are 'CHEMWATCH HAZARD RATINGS' shown as bar graphs for Flammability (3), Toxicity (0), Body Contact (2), Reactivity (1), and Chronic (0). The 'GHS Classification' is listed as 'Flammable Liquid Category 2, Acute Toxicity (Oral) Category 5, Skin Corrosion/Irritation Category 5, Eye Irritation Category 2A'. A legend explains the classification criteria. At the bottom, 'Label elements' are shown, including two hazard pictograms: a flame and an exclamation mark.

There are a number of classifications and cues that give the user valuable information on the degree of hazard:

1. The bar graphs on the LHS
2. The hazard pictograms (in this case clearly indicating high flammability and harm with chronic exposure)
3. GHS/HSNO Hazard Class

Emergency Information

If the heartbeat symbol in the MSDS and Labels section is pressed sections relevant to emergencies become available (e.g. spills or advice to doctor)

The screenshot shows the GOLD FFX software interface with the 'EMERGENCY' section expanded. The main content area displays 'SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING' for Acetone. It includes a 'Product Identifier' table with columns for Product name, Synonyms, Proper shipping name, Chemical formula, Other means of identification, and CAS number. Below this, there is a section for 'Relevant identified uses of the substance or mixture and uses advised against'. The 'Emergency Report' sidebar on the left contains buttons for 'FIRST AID', 'FIRE FIGHTING', 'SPILLS', 'CHINA', 'ADVICE TO DOCTOR', 'TRANSPORT', and 'ERG'. A heartbeat symbol is visible in the sidebar, indicating that emergency information is available.

MiniMSDS

Using the miniMSDS button for any compound gives a 1 page summary with hazard classifications, hazard information, properties and emergency information

The screenshot displays the GOLD FFX web application interface. On the left, a sidebar contains navigation options like 'Materials', 'Folders', and 'Risk Assess'. The main content area shows the 'MiniMSDS' for 'Acetone'. The interface includes a search bar, a 'Query builder' section, and a 'Simple' search input with 'acetone' entered. The main data area is titled 'ACETONE' and contains the following information:

INGREDIENTS	CAS NO	%	TWA
acetone	67-64-1	95-99.5	1185 mg/m3

HEALTH HAZARD INFORMATION

UN No: 1090
Hazard Code: +2YE
DG Class: 3
Subsidiary Risk: Not Applicable
Packing Group: II

Determined by: Chemwatch using GHS/HSNO criteria

Signal word: Danger

Hazard statement(s): H225 Highly flammable liquid and vapour H333 May be harmful if swallowed H319 Causes mild skin irritation H319 Causes serious eye irritation

PROPERTIES

Liquid
Mixes with water Highly flammable

EMERGENCY

FIRST AID

Swallowed: Give water (if conscious). Seek medical advice.
Eye: Wash with running water.
Skin: Remove contaminated clothing. Wash with soap & water.
Inhaled: Fresh air. Rest, keep warm. If breathing shallow, give oxygen. Medical attention.
Advice To Doctor: No antidote. Supportive care.

An explanation of the symbols is also available by placing your cursor over the symbol.

This screenshot is identical to the one above, but with a tooltip displayed over the flame symbol in the 'PROPERTIES' section. The tooltip provides the following information:

Highly flammable
Scarcely flammable

Appendix: Risk Phrases

Code	Phrase
R1	Explosive when dry
R2	Risk of explosion by shock, friction, fire or other sources of ignition
R3	Extreme risk of explosion by shock, friction, fire or other sources of ignition
R4	Forms very sensitive explosive metallic compounds
R5	Heating may cause an explosion
R6	Explosive with or without contact with air
R7	May cause fire
R8	Contact with combustible material may cause fire
R9	Explosive when mixed with combustible material
R10	Flammable
R11	Highly flammable
R12	Extremely flammable
R14	Reacts violently with water
R15	Contact with water liberates extremely flammable gases
R16	Explosive when mixed with oxidising substances
R17	Spontaneously flammable in air
R18	In use, may form flammable/explosive vapour-air mixture
R19	May form explosive peroxides
R20	Harmful by inhalation
R21	Harmful in contact with skin
R22	Harmful if swallowed
R23	Toxic by inhalation
R24	Toxic in contact with skin
R25	Toxic if swallowed
R26	Very toxic by inhalation
R27	Very toxic in contact with skin
R28	Very toxic if swallowed
R29	Contact with water liberates toxic gas.
R30	Can become highly flammable in use
R31	Contact with acids liberates toxic gas
R32	Contact with acids liberates very toxic gas
R33	Danger of cumulative effects
R34	Causes burns
R35	Causes severe burns
R36	Irritating to eyes
R37	Irritating to respiratory system
R38	Irritating to skin
R39	Danger of very serious irreversible effects
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R42	May cause sensitisation by inhalation

R43	May cause sensitisation by skin contact
R44	Risk of explosion if heated under confinement
R45	May cause cancer
R46	May cause heritable genetic damage
R48	Danger of serious damage to health by prolonged exposure
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R51	Toxic to aquatic organisms
R52	Harmful to aquatic organisms
R53	May cause long-term adverse effects in the aquatic environment
R54	Toxic to flora
R55	Toxic to fauna
R56	Toxic to soil organisms
R57	Toxic to bees
R58	May cause long-term adverse effects in the environment
R59	Dangerous for the ozone layer
R60	May impair fertility
R61	May cause harm to the unborn child
R62	Possible risk of impaired fertility
R63	Possible risk of harm to the unborn child
R64	May cause harm to breast-fed babies
R65	Harmful: may cause lung damage if swallowed
R66	Repeated exposure may cause skin dryness or cracking
R67	Vapours may cause drowsiness and dizziness
R68	Possible risk of irreversible effects

Risk Phrase Combinations

Code Combination	Statement
R14/15	Reacts violently with water, liberating extremely flammable gases
R15/29	Contact with water liberates toxic, extremely flammable gases
R20/21	Harmful by inhalation and in contact with skin
R20/22	Harmful by inhalation and if swallowed
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R23/24	Toxic by inhalation and in contact with skin
R23/25	Toxic by inhalation and if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R24/25	Toxic in contact with skin and if swallowed
R26/27	Very toxic by inhalation and in contact with skin
R26/28	Very toxic by inhalation and if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R27/28	Very toxic in contact with skin and if swallowed
R36/37	Irritating to eyes and respiratory system

R36/38	Irritating to eyes and skin
R36/37/38	Irritating to eyes, respiratory system and skin
R37/38	Irritating to respiratory system and skin
R39/23	Toxic: danger of very serious irreversible effects through inhalation
R39/24	Toxic: danger of very serious irreversible effects in contact with skin
R39/25	Toxic: danger of very serious irreversible effects if swallowed
R39/23/24	Toxic: danger of very serious irreversible effects through inhalation and in contact with skin
R39/23/25	Toxic: danger of very serious irreversible effects through inhalation and if swallowed
R39/24/25	Toxic: danger of very serious irreversible effects in contact with skin and if swallowed
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R39/26	Very Toxic: danger of very serious irreversible effects through inhalation
R39/27	Very Toxic: danger of very serious irreversible effects in contact with skin
R39/28	Very Toxic: danger of very serious irreversible effects if swallowed
R39/26/27	Very Toxic: danger of very serious irreversible effects through inhalation and in contact with skin
R39/26/28	Very Toxic: danger of very serious irreversible effects through inhalation and if swallowed
R39/27/28	Very Toxic: danger of very serious irreversible effects in contact with skin and if swallowed
R39/26/27/28	Very Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R42/43	May cause sensitization by inhalation and skin contact
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/21	Harmful: danger of serious damage to health by prolonged exposure in contact with skin
R48/22	Harmful: danger of serious damage to health by prolonged exposure if swallowed
R48/20/21	Harmful: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin
R48/20/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed
R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R48/24	Toxic: danger of serious damage to health by prolonged exposure in contact with skin
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R48/23/24	Toxic: danger of serious damage to health by prolonged exposure through inhalation and in contact with skin
R48/23/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R68/20	Harmful: possible risk of irreversible effects through inhalation
R68/21	Harmful: possible risk of irreversible effects in contact with skin
R68/22	Harmful: possible risk of irreversible effects if swallowed
R68/20/21	Harmful: possible risk of irreversible effects through inhalation and in contact with skin
R68/20/22	Harmful: possible risk of irreversible effects through inhalation and if swallowed
R68/21/22	Harmful: possible risk of irreversible effects in contact with skin and if swallowed
R68/20/21/22	Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed