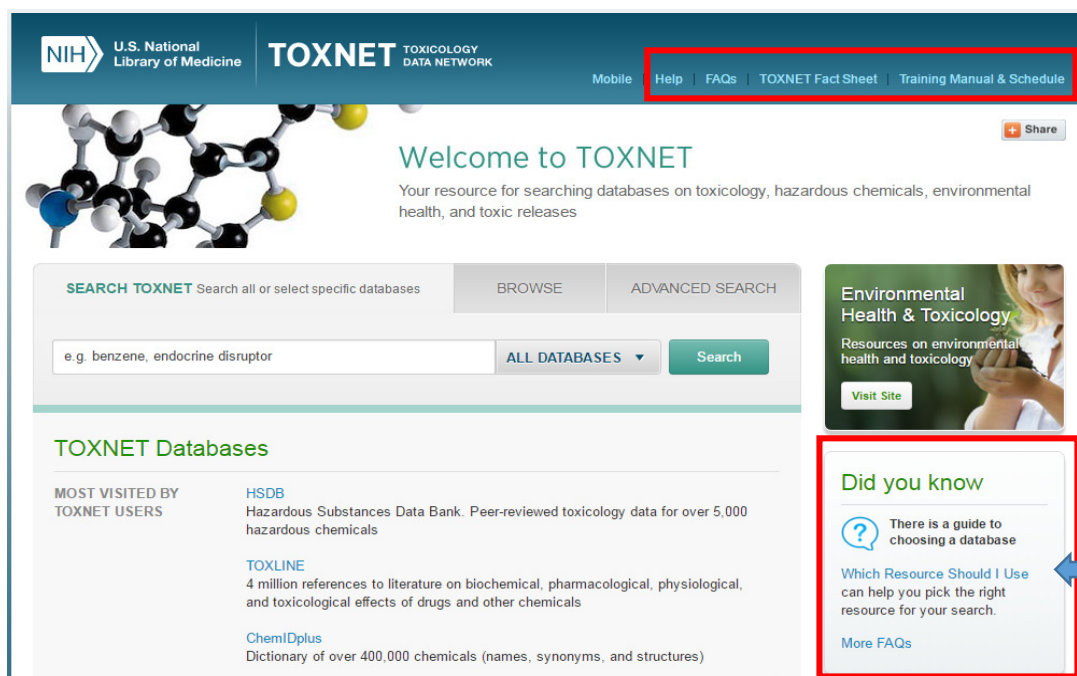


## Quick Guide to TOXNET

TOXNET, short for TOXicology Data NETwork, is an online resource for searching databases on toxicology, chemicals and drugs, environmental health, and occupational safety and health. It is part of the National Library of Medicine (NLM) and provides links to PubMed, the NLM's free web interface to biomedical literature, and to other sources of toxicological information.



The screenshot shows the TOXNET homepage with several key elements highlighted by red boxes and a blue arrow. At the top right, a navigation bar contains links for 'Help', 'FAQs', 'TOXNET Fact Sheet', and 'Training Manual & Schedule'. Below the search bar, a 'TOXNET Databases' section lists 'HSDB' (Hazardous Substances Data Bank), 'TOXLINE' (4 million references), and 'ChemIDplus' (Dictionary of over 400,000 chemicals). On the right side, a 'Did you know' box contains the text: 'There is a guide to choosing a database', 'Which Resource Should I Use can help you pick the right resource for your search.', and 'More FAQs'. A blue arrow points to this box from the right.

Figure 1. TOXNET's homepage.

There is a helpful FAQs section and a guide to help you choose which environmental and toxicology resource is right for you (shown in Figure 1).

TOXNET databases are listed underneath the search box on the homepage and are aligned against subject headings to help you select which database(s) are the most appropriate for your search. Clicking on the title will take you to another page where you can search just using that database.

There is also links at the top of webpage to help and training information on how to use the TOXNET databases.

## Browsing and Searching

TOXNET can be accessed via this URL: <http://toxnet.nlm.nih.gov/> and offers a great basic search, advanced search and browsing options.

## Browsing

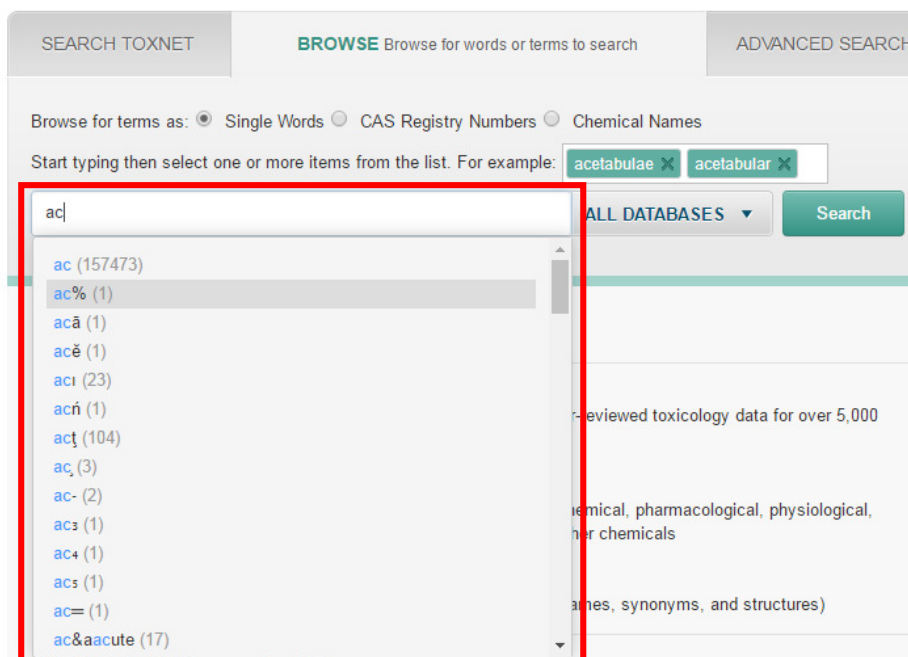


Figure 2. TOXNET's browsing functionality.

To browse the TOXNET collection, click on the 'Browse' tab above the search box on the homepage. You will see that you are able to browse for terms from a pre-defined list, which also provides the number of items that keyword is associated with in brackets.

You can also adjust the search options in a couple of different ways, as shown in Figure 3. Above the search box, you can choose to search by single words or chemical names. You can also choose a particular database to search by clicking on the 'ALL DATABASES' dropdown menu to the right of the search box.

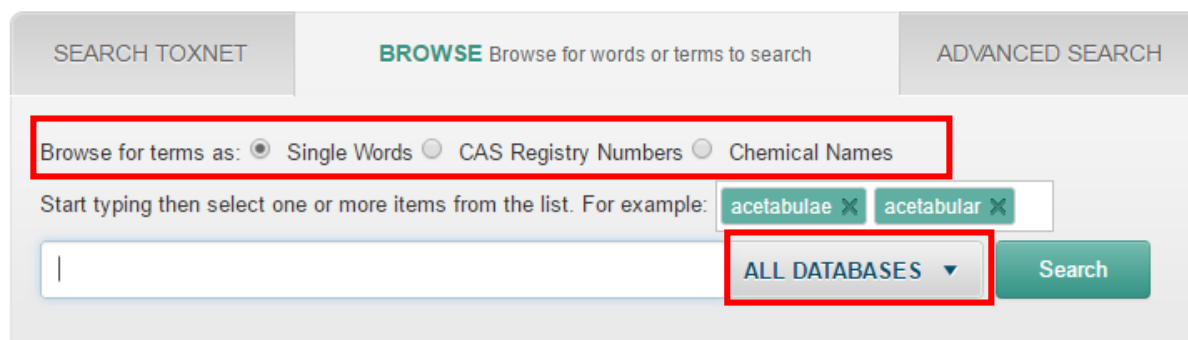


Figure 3. Adjusting search options.

## Searching

### Basic Search

The homepage provides a simple search box in the middle. Similar to the browsing search box, you can choose to search a particular database rather than all of them.

SEARCH TOXNET Search all or select specific databases

BROWSE

ADVANCED SEARCH

e.g. benzene, endocrine disruptor

ALL DATABASES

Search

Figure 4. Basic search.

**Top tip:** if you are unsure of what all the databases are, TOXNET provides a very handy fact sheet detailing what each database acronym stands for and what is contained in that database: <https://www.nlm.nih.gov/pubs/factsheets/toxnetfs.html> There is also a ‘What Resource Should I Use’ guide, shown in Figure 1, which can also help you decide which databases you might want to focus on.

### Advanced Search

Above the basic search box there is an ‘ADVANCED SEARCH’ tab. This will help to narrow your search results.

SEARCH TOXNET

BROWSE

ADVANCED SEARCH Advanced options for specific databases

e.g. benzene, endocrine disruptor

TOXLINE

Search

**TOXLINE ADVANCED SEARCH**

Search Term  Records with  Search Fields

Add chemical synonyms and CAS numbers to search

Include PubMed records  Only PubMed Central

Maximum records returned

Year of Publication  through

Only search documents added in the last  months

Language

- All
- English
- Afrikaans
- Arabic
- Armenian
- Azerbaijani
- Bulgarian
- Byelorussian
- Catalan

TOXLINE Components

- All
- ANEUPL
- BIOSIS
- CIS
- DART (non-PubMed)
- DART (PubMed: non-Tox subset)
- EMIC
- EPIDEM
- FEDRIP

To select more than one item, click while holding the CTRL (PC) or CMD (Mac) key.

Figure 5. Advanced search.

As you can see in Figure 5, you can choose the year range, language and include/exclude options. One of the handy features here is in the ‘Search Term’ field where you can choose to search for

singular/plural words **OR** word variants (e.g. organisation/organization, behaviour/behavior) **OR** exact words.

## Viewing content

Once you have conducted a search, results will often be displayed like in Figure 6. Click on the item title found on the left hand side of the results list.

bleach Search

Search Term singular/plural Records with all of the words  Include Synonyms and CAS Numbers in Search

124 items found for 'bleach'. Download Records | Search Details | History | My List

Sort By Relevance Items Per Page 10 Page 1 of 13 | « Prev | Next »

NAME ADD TO MY LIST

The following 124 records contain all of the query terms in the same section.

1. CHLORINE 7782-50-5 Select Record

2. Trichloroisocyanuric acid 87-90-1 Select Record

3. NITROGEN MUSTARD N-OXIDE HYDROCHLORIDE 302-70-5 Select Record

4. LEWISITE 541-25-3 Select Record

Figure 6. Search results.

You can also select this record (as shown in Figure 6 on the right hand side) to add to your own personalised list to later download records via the 'My List' menu button on the right hand side.

Search Details | History « Previous Record | Next Record »

HSDB: CHLORINE CASRN: 7782-50-5 This record appears in multiple databases.

View record in another database: HSDB

Download this Record Print Select Record My List Permalink

TABLE OF CONTENTS

Show Selected Items Clear Expand all Collapse all

Closest Match to Search Terms

Full Record

Human Health Effects

Emergency Medical Treatment

Animal Toxicity Studies

Metabolism/ Pharmacokinetics

Pharmacology

Environmental Fate & Exposure

Environmental Standards & Regulations

Chemical/Physical Properties

Chemical Safety & Handling

Occupational Exposure Standards

Manufacturing/Use Information

Laboratory Methods

Special References

Synonyms and Identifiers

Administrative Information

CLICK TO HIDE

CHLORINE CASRN: 7782-50-5

Cl—Cl

FULL RECORD DISPLAY

Displays all fields in the record.

For other data, click on the Table of Contents

Human Health Effects:

Toxicity Summary:

IDENTIFICATION: Chlorine is a greenish yellow gas. It is very soluble in dimethylformamide, benzene, chloroform, carbon tetrachloride, tetrachloroethane, chlorobenzene, diethyl acetic acid, sulfur tetrachloride, chloroacetyl chloride,

*Figure 7. Viewing content.*

As you can see from Figure 7 on the right hand side, you can download, print, select record, or find a permalink (stable URL web address) for this item. On the left hand side, there is a table of contents allowing you to see what is included in the document and also jump to the relevant sections by clicking on the titles.

## **Further Help**

If you need help using this or any other information resources, please contact the **Online Library** by:

Telephone at: +44 (0)20 7862 8478 (between 09.00 and 17.00 GMT),

By email at: [OnlineLibrary@shl.lon.ac.uk](mailto:OnlineLibrary@shl.lon.ac.uk)

By the Enquiries Form at: <http://onlinelibrary.london.ac.uk/about/contact-us>