

# Toxicology and Environmental Health





National Library of Medicine  
Specialized Information Services

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SIS



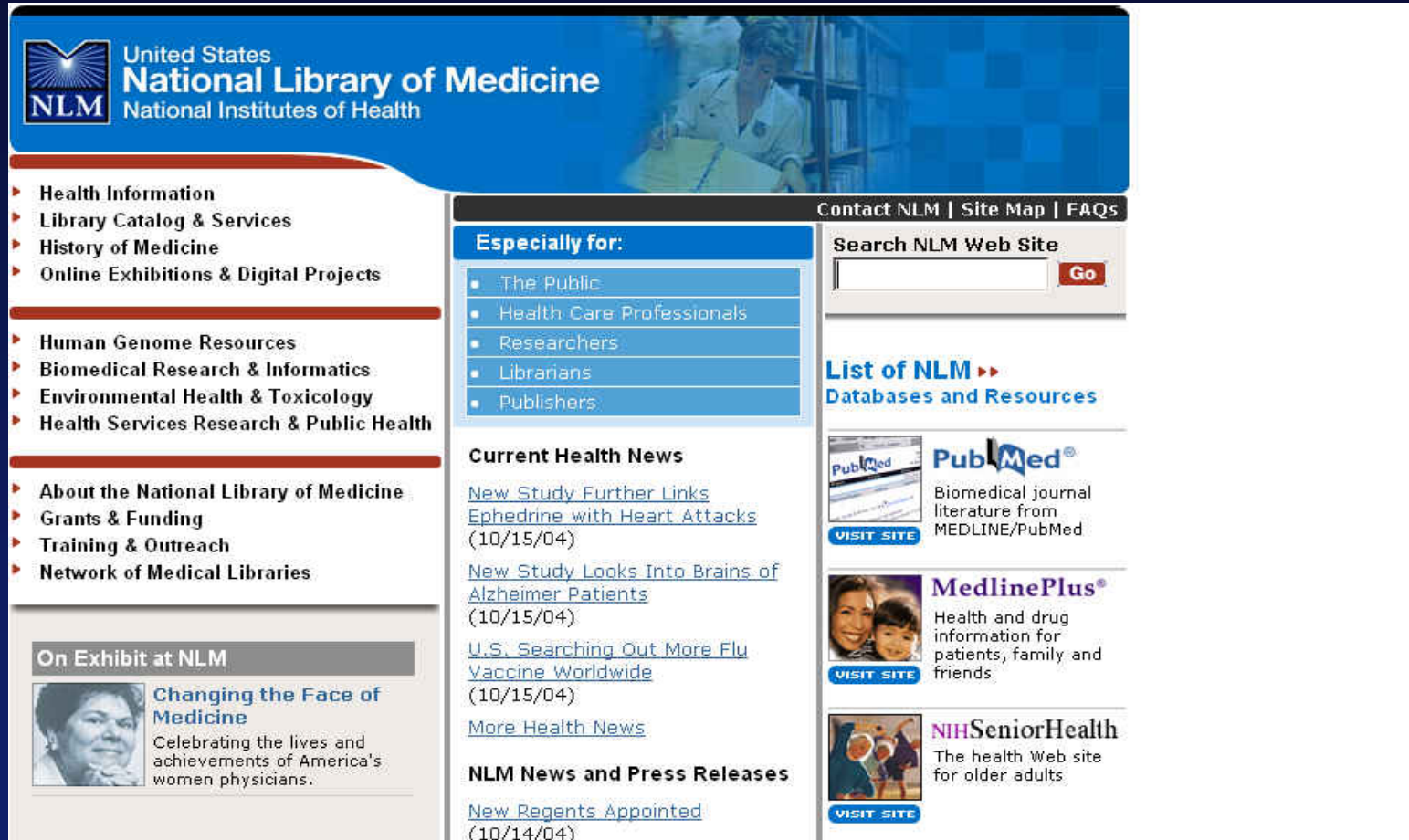
# Your Health and the Environment: Resources from the National Library of Medicine

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Specialized Information Services  
National Library of Medicine



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# National Library of Medicine



**United States National Library of Medicine**  
National Institutes of Health

**Health Information**

- Library Catalog & Services
- History of Medicine
- Online Exhibitions & Digital Projects

**Human Genome Resources**

- Biomedical Research & Informatics
- Environmental Health & Toxicology
- Health Services Research & Public Health

**About the National Library of Medicine**

- Grants & Funding
- Training & Outreach
- Network of Medical Libraries

**On Exhibit at NLM**

**Changing the Face of Medicine**  
Celebrating the lives and achievements of America's women physicians.

**Especially for:**

- The Public
- Health Care Professionals
- Researchers
- Librarians
- Publishers

**Current Health News**

- [New Study Further Links Ephedrine with Heart Attacks](#) (10/15/04)
- [New Study Looks Into Brains of Alzheimer Patients](#) (10/15/04)
- [U.S. Searching Out More Flu Vaccine Worldwide](#) (10/15/04)
- [More Health News](#)

**NLM News and Press Releases**

- [New Regents Appointed](#) (10/14/04)

Contact NLM | Site Map | FAQs

Search NLM Web Site

**Go**

**List of NLM Databases and Resources**

**PubMed**  
Biomedical journal literature from MEDLINE/PubMed

**MedlinePlus**  
Health and drug information for patients, family and friends

**NIH SeniorHealth**  
The health Web site for older adults

<http://www.nlm.nih.gov>

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# Why NLM?

**Easy to use**

**Quick and reliable access**

**Quality health information**

***FREE***



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# Environmental Health Information Product User Continuum



Professional

General Public



<http://tox.nlm.nih.gov>

*Premier  
portal for  
environmental  
health  
information*

The screenshot shows the homepage of the Environmental Health and Toxicology Specialized Information Services (SIS) portal. At the top, the NLM logo and name are displayed alongside a search bar and navigation links. The main header features the title 'Environmental Health and Toxicology SIS' and a secondary navigation bar. The content is organized into several sections: 'Topics' and 'Especially for' (listing target audiences like the public and researchers), 'Reference Tools' (including a list of resources and manuals), and 'More to Explore' (with links to various databases and tutorials). A 'TOXNET' section provides a search interface for hazardous chemical databases. A 'Featured Site' section highlights the New Enviro-HealthLinks resource on indoor air pollution.

United States  
**National Library of Medicine**  
National Institutes of Health

Search NLM Web Site  
 **Go**  
NLM Home | Contact NLM | Site Map | FAQs

**Environmental Health and Toxicology**  
SIS Specialized Information Services

SIS Home | About Us | Site Map & Search | Contact Us

[SIS Home](#) > [Environmental Health and Toxicology](#)

Topics	Especially for
<ul style="list-style-type: none"><li>▶ Chemicals and Drugs</li><li>▶ Diseases and the Environment</li><li>▶ Environmental Health</li><li>▶ Occupational Safety and Health</li><li>▶ Poison Control</li><li>▶ Risk Assessment and Regulations</li><li>▶ Toxicology</li></ul>	<ul style="list-style-type: none"><li>▶ The Public</li><li>▶ Researchers/Scientists</li><li>▶ Health Professionals</li><li>▶ Students/Educators</li><li>▶ Emergency Responders</li></ul>

**Reference Tools**

- [A to Z List of Resources](#)
- [Database Manuals](#)
- Listservs:
  - [NLM Enviro-Health Updates](#)
  - [MedlinePlus Environmental Health News](#)
- [More Chemical Information](#)
- [Publications and References](#)

**More to Explore**

- [Tox Town](#)
- [Tox Seek](#)
- [EnviroHealthLinks](#)
- [World Library of Toxicology, Chemical Safety, and Environmental Health](#)
- [WISER \(PDA Application\)](#)
- [Toxicology Tutorials](#)
- [MedlinePlus: Consumer](#)

**TOXNET**  
Collection of databases on hazardous chemicals, toxic releases, environmental health.

Search all TOXNET databases  
 **Search**

Search a single database:

<a href="#">ChemIDplus</a>	<a href="#">IRIS</a>
<a href="#">CCRIS</a>	<a href="#">ITER</a>
<a href="#">DART</a>	<a href="#">RxMilk</a>
<a href="#">GENE-TOX</a>	<a href="#">TOXLINE</a>
<a href="#">Haz-Map</a>	<a href="#">TOXMAP</a>
<a href="#">Household Products</a>	<a href="#">TRI</a>
<a href="#">HSDB</a>	

[TOXNET Search Guide](#)

**Featured Site**  
Featured Site: New Enviro-HealthLinks resource on [Indoor Air Pollution](#)



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# Topic Page Example

## Environmental Health and Toxicology

SIS Specialized Information Services

[SIS Home](#) | [About Us](#) | [Site Map & Search](#) | [Contact Us](#)

[SIS Home](#) > [Environmental Health and Toxicology](#) > [Chemical And Drug Information](#)

### Chemical and Drug Information from NLM

#### Starting Points for Chemical and Drug Information:

▶ [ChemIDplus](#) - **Chemical Identification Plus database**

Dictionary of over 370,000 chemicals (names, synonyms, structures)

- Includes links to NLM and other databases and resources :
  - [Superlist](#) - Lists of chemicals of interest to government agencies
- ChemIDplus advanced: structure search and display
- See below for specific NLM toxicology databases.

Search [TOXNET](#) for:

Search in:

- All TOXNET Databases  
 ChemIDplus

**Search**

#### For Researchers and Health Professionals:

##### [TOXNET Databases](#)

Databases on hazardous chemicals, environmental health, and toxic releases:

##### [TOXLINE](#) – **Toxicology Literature Online**

References from PubMed/MEDLINE (TOXLINE Core) and other toxicology literature (TOXLINE Special)

##### [HSDB](#) – **Hazardous Substances Data Bank**

- Comprehensive, peer-reviewed toxicological data for over 4,700 chemicals.
- Excerpts from published literature on
  - Chemical/Physical Properties

#### For the Public and Students:



##### [Household Products Database](#)

Potential health effects of chemicals in 5,000 common household products



##### [Tox Town](#)

Interactive guide to toxic substances and environmental health issues in everyday places



##### [MedlinePlus](#)

Consumer health resource on over



# Especially for Health Professionals

## Especially for Health Professionals

### Starting Points for Health Professionals:

#### ► [TOXLINE](#) – Toxicology Literature Online

References from PubMed/MEDLINE (TOXLINE Core) and other toxicology literature (TOXLINE Special)

#### ► [HSDB](#) – Hazardous Substances Data Bank

- Comprehensive, peer-reviewed toxicological data for over 4,700 chemicals.
- Excerpts from published literature on
  - Human Health Effects (including studies and case reports on workers)
  - Emergency Medical Treatment
  - Chemical/Physical Properties
  - Metabolism/Pharmacokinetics

#### ► [Haz-Map](#)

Links jobs and hazardous tasks with occupational diseases and their symptoms

#### ► [ChemIDplus](#) – Chemical Identification Plus

- Dictionary of over 370,000 chemicals (names, synonyms, structures)
- Includes links to NLM and other databases and resources
  - ATSDR Medical Management Guidelines and Public Health Statements
- **ChemIDplus advanced**: structure search and display

#### [Household Products Database](#)

Potential health effects of chemicals for over 5,000 common household products

Search [TOXNET](#) for:

Search in:

- All TOXNET Databases
- TOXLINE
- HSDB
- Haz-Map
- ChemIDplus
- Household Products Database

**Search**

Other suggested NLM resources for YOU:

Suggested NLM resources for PATIENTS:

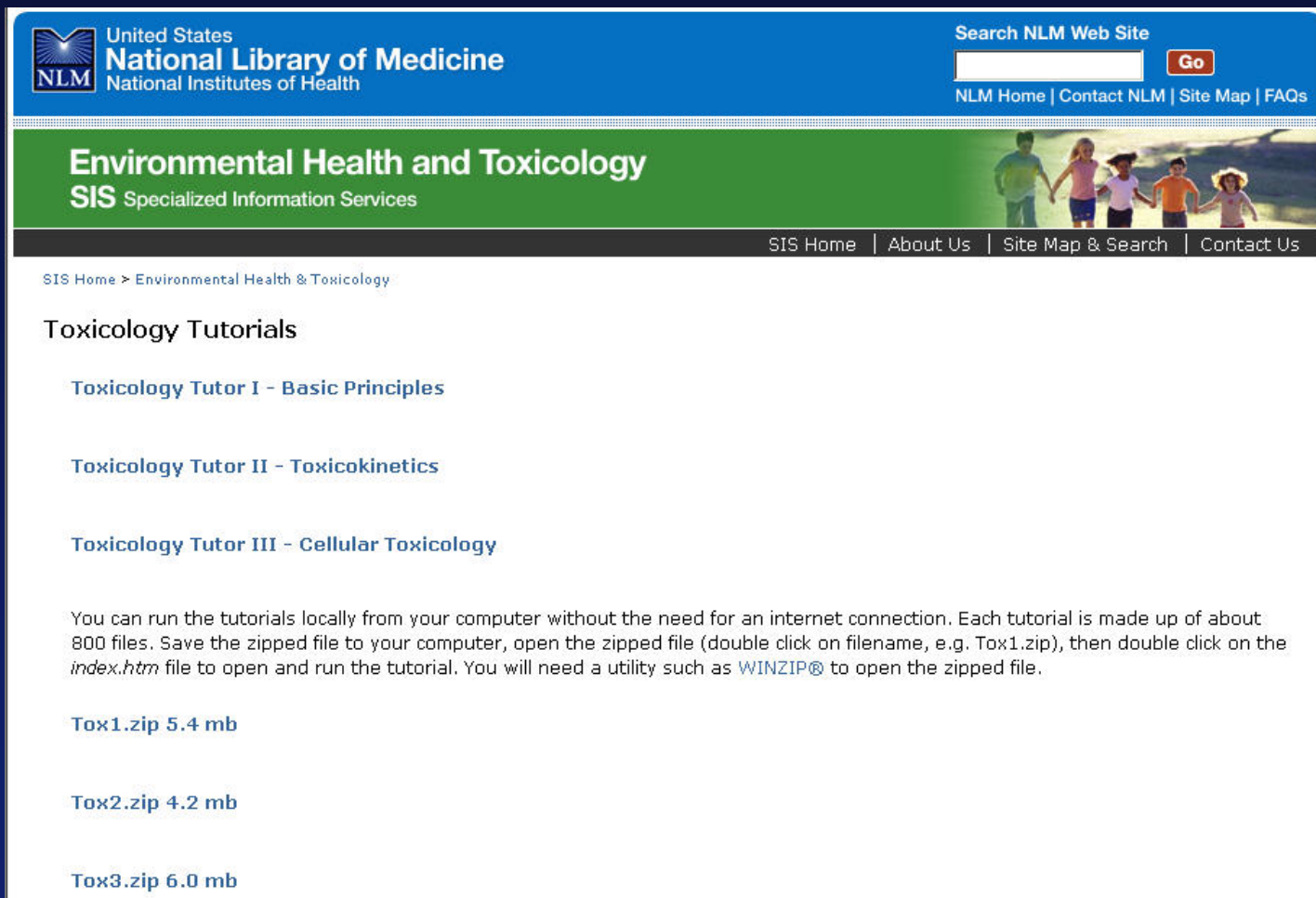


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# Toxicology Tutorials

## Three web-based “mini-textbooks on toxicology



The screenshot shows the National Library of Medicine (NLM) website. At the top left is the NLM logo and the text "United States National Library of Medicine National Institutes of Health". At the top right is a search bar with the text "Search NLM Web Site" and a "Go" button. Below the search bar are links for "NLM Home | Contact NLM | Site Map | FAQs". A green banner below the search bar contains the text "Environmental Health and Toxicology SIS Specialized Information Services" and an image of a family walking. Below the banner is a navigation bar with links for "SIS Home | About Us | Site Map & Search | Contact Us". The main content area has a breadcrumb trail "SIS Home > Environmental Health & Toxicology" and a section titled "Toxicology Tutorials". Under this section are three links: "Toxicology Tutor I - Basic Principles", "Toxicology Tutor II - Toxicokinetics", and "Toxicology Tutor III - Cellular Toxicology". Below these links is a paragraph of text: "You can run the tutorials locally from your computer without the need for an internet connection. Each tutorial is made up of about 800 files. Save the zipped file to your computer, open the zipped file (double click on filename, e.g. Tox1.zip), then double click on the *index.htm* file to open and run the tutorial. You will need a utility such as WINZIP® to open the zipped file." Below this paragraph are three links: "Tox1.zip 5.4 mb", "Tox2.zip 4.2 mb", and "Tox3.zip 6.0 mb".

United States  
National Library of Medicine  
National Institutes of Health

Search NLM Web Site  
  
Go

NLM Home | Contact NLM | Site Map | FAQs

Environmental Health and Toxicology  
SIS Specialized Information Services

SIS Home | About Us | Site Map & Search | Contact Us

SIS Home > Environmental Health & Toxicology

### Toxicology Tutorials

[Toxicology Tutor I - Basic Principles](#)

[Toxicology Tutor II - Toxicokinetics](#)

[Toxicology Tutor III - Cellular Toxicology](#)

You can run the tutorials locally from your computer without the need for an internet connection. Each tutorial is made up of about 800 files. Save the zipped file to your computer, open the zipped file (double click on filename, e.g. Tox1.zip), then double click on the *index.htm* file to open and run the tutorial. You will need a utility such as WINZIP® to open the zipped file.

[Tox1.zip 5.4 mb](#)

[Tox2.zip 4.2 mb](#)

[Tox3.zip 6.0 mb](#)



# Toxicology Tutorial I: Basic Principles

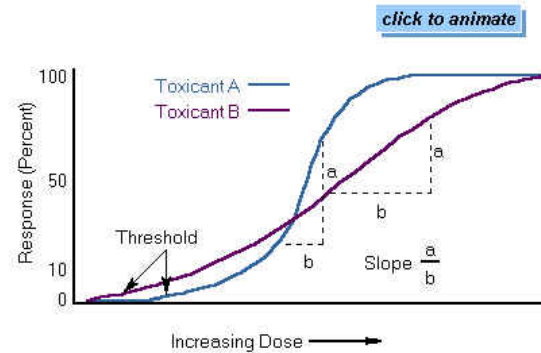
The screenshot shows the 'Toxicology Tutor I Basic Principles Menu' interface. On the left is a vertical navigation bar with buttons for Home, E-Mail, Credits, Summary, Glossary, Map, and Menu. A red arrow points from the 'Glossary' button to the 'Dose and Dose Response' menu item. The main menu consists of several blue buttons: Introduction, Dose and Dose Response, Toxic Effects, Interactions, Toxicity Testing Methods, Risk Assessment, and Exposure Standards/Guidelines. At the top left of the main menu area is a graduation cap icon and the National Library of Medicine logo.

Includes text, graphics,  
and online quizzes



The **dose-response curve** normally takes the form of a sigmoid curve. It conforms to a smooth curve as close as possible to the individual data points. For most effects, small doses are not toxic. The point at which toxicity first appears is known as the **threshold** dose level. From that point, the curve increases with higher dose levels. In the hypothetical curve above, no toxicity occurs at 10 mg whereas at 35 mg 100% of the individuals experience toxic effects.

A **threshold** for toxic effects occurs at the point where the body's ability to detoxify a xenobiotic or repair toxic injury has been exceeded. For most organs there is a reserve capacity so that loss of some organ function does not cause decreased performance. For example, the development of **cirrhosis** in the liver may not result in a clinical effect until over 50% of the liver has been replaced by fibrous tissue.



# EnviroHealthLinks

## (Internet Resource Guides)

- ▶ **Arsenic and Human Health**
- ▶ **Biological Warfare Agents**
- ▶ **Chemical Warfare Agents**
- ▶ **Children's Environmental Health**
- ▶ **Environmental Justice**
- ▶ **Indoor and Outdoor Air Pollution**
- ▶ **Toxicogenomics**
- ▶ **World Trade Center – Lingerin Airborne Hazards**
- ▶ **WNV – Pesticides for Mosquito Control**



# Environmental Justice Resources

## Environmental Health and Toxicology SIS Specialized Information Services

[SIS Home](#) | [About Us](#) | [Site Map & Search](#) | [Contact Us](#)

[SIS Home](#) > [Environmental Health and Toxicology](#) > [Enviro-Health Links](#)

### Environmental Justice

- ▶ [Background](#)
- ▶ [Government Information Resources](#)
- ▶ [Brownfields](#)
- ▶ [Bibliography, 1990-1997](#)
- ▶ [Searches from the National Library of Medicine](#)
- ▶ [Environmental Justice Centers](#)
- ▶ [Web Sites of Related Interest](#)
- ▶ [Selected References](#)
- ▶ [Disclaimer](#)

#### Featured Site

[Environmental Justice Strategy](#)  
U.S. Agency for Toxic Substances  
and Disease Registry (ATSDR)

### Background

The Environmental Protection Agency's Office of Enforcement and Compliance Assurance (OECA) defines environmental justice as the "fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies." Environmental justice is also perceived as an imminent national health issue and is viewed as a critical need to ensure that communities comprised predominantly of people of color or low income populations receive equal protection under environmental laws.



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# Other Environmental Health and Toxicology Resources

## Environmental Health and Toxicology SIS Specialized Information Services



[SIS Home](#) | [About Us](#) | [Site Map & Search](#) | [Contact Us](#)

[SIS Home](#) > [Environmental Health & Toxicology](#)

### *Enviro-Health Links* - Toxicology Web Links

#### **U.S. Government**

#### **International Resources**

#### **Associations and Societies**

#### **Additional Resources**

Click on the  icon next to each resource for additional information on that web link.

#### **US Government**

- [Agency for Toxic Substances and Disease Registry \(ATDSR\)](#)  [part of CDC]
  - [HazDat Database](#)
  - [GATHER](#)
  - [Minimal Risk Levels](#)
  - [Public Health Assessments](#)
  - [Top 20 Hazardous Substances](#)
  - [ToxFAQ](#)
  - [Toxicological Profiles](#)
- [Centers for Disease Control and Prevention\(CDC\)](#) 
  - [Mining Safety and Health Research](#)
  - [Morbidity and Mortality Weekly Report](#)
  - [National Center for Environmental Health](#)
  - [National Center for Health Statistics](#)
  - [National Institute for Occupational Safety and Health \(NIOSH\)](#)
- [Chemical Safety Hazard and Investigation Board](#) 



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# Tox Town:

## An Interactive Guide to Potentially Toxic Substances and Environmental Health Issues

<a href="#">Intro</a>	<a href="#">Home</a>	<a href="#">(((Sound ON)))</a>	<a href="#">Site Map</a>	<a href="#">Help</a>	<a href="#">About</a>	<a href="#">Español</a>	<a href="#">Tox &amp; Health Home</a>	<a href="#">NLM</a>	<a href="#">Text Version</a>
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◀	<a href="#">Factory</a>	<a href="#">River</a>	<a href="#">Offices &amp; Stores</a>	<a href="#">Vehicles</a>	<a href="#">Drinking Water</a>	<a href="#">Park</a>	<a href="#">School</a>	▶
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<a href="#">Arsenic</a>	<a href="#">Asbestos</a>	<a href="#">Carbon Monoxide</a>	<a href="#">Lead</a>	<a href="#">Mercury</a>	<a href="#">Ozone</a>	<a href="#">Radon</a>	<a href="#">Toluene</a>
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**Welcome to Tox Town**

An introduction to toxic chemicals and environmental health risks you might encounter in everyday life, in everyday places.

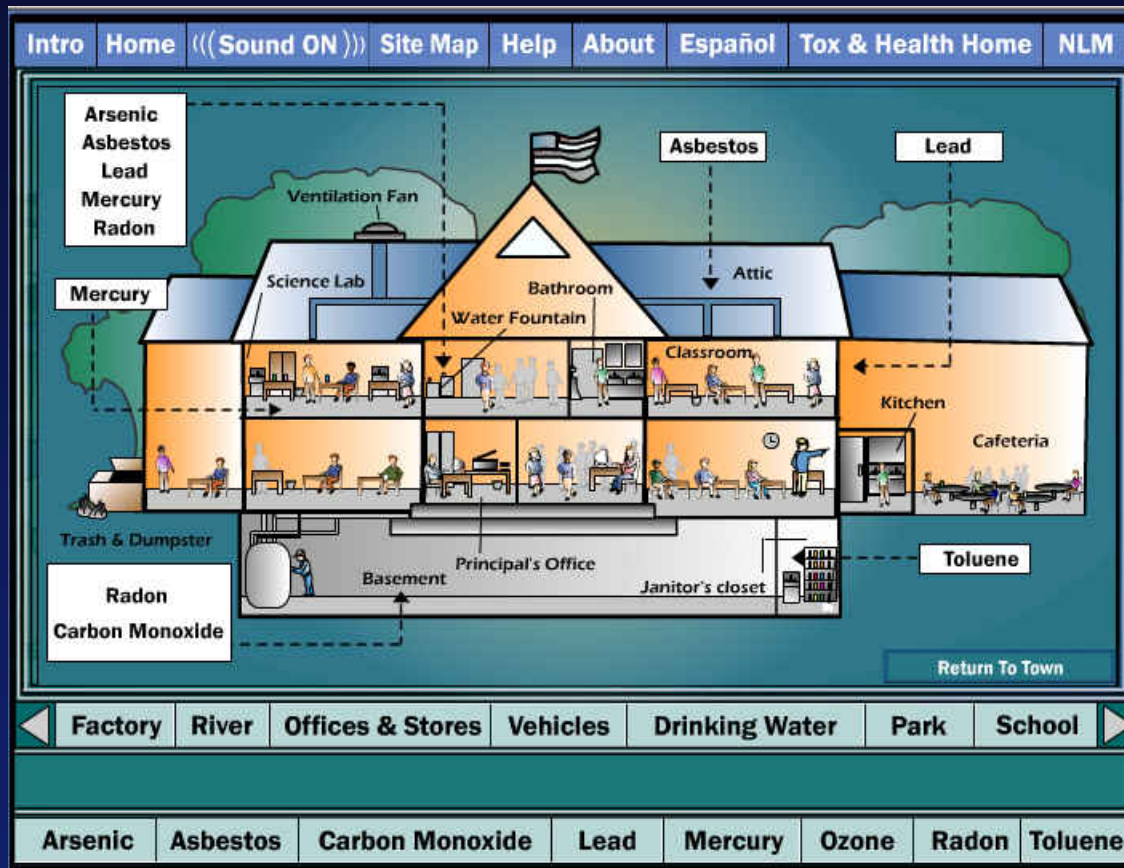
- **Locations**  
Click on a location in town, like the school, and find out more about the chemicals that could be in that location. Also learn about health risks that might be in that location.
- **Chemicals**  
Roll your mouse over a chemical name to see where it might be found in town. Then click the button for selected Internet information on that chemical.
- **Are these chemicals in MY community?**

Tox Town developed by:  
Specialized Information Services  
National Library of Medicine NIH

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Last modified on February 14, 2003



# Tox Town: Healthy Schools



**School**

- **Healthy Schools**
- **Chemicals at School**

**Web links from MEDLINEplus**  
(National Library of Medicine)

- **Drinking Water**
- **Household Poisons**
- **Indoor Air Pollution**
- **Molds**
- **Pesticides**
- **Poisoning**
- **Secondhand Smoke**

• **Healthy School Environments**  
(Environmental Protection Agency)

**Text Version**  
Topic last reviewed 2/14/03

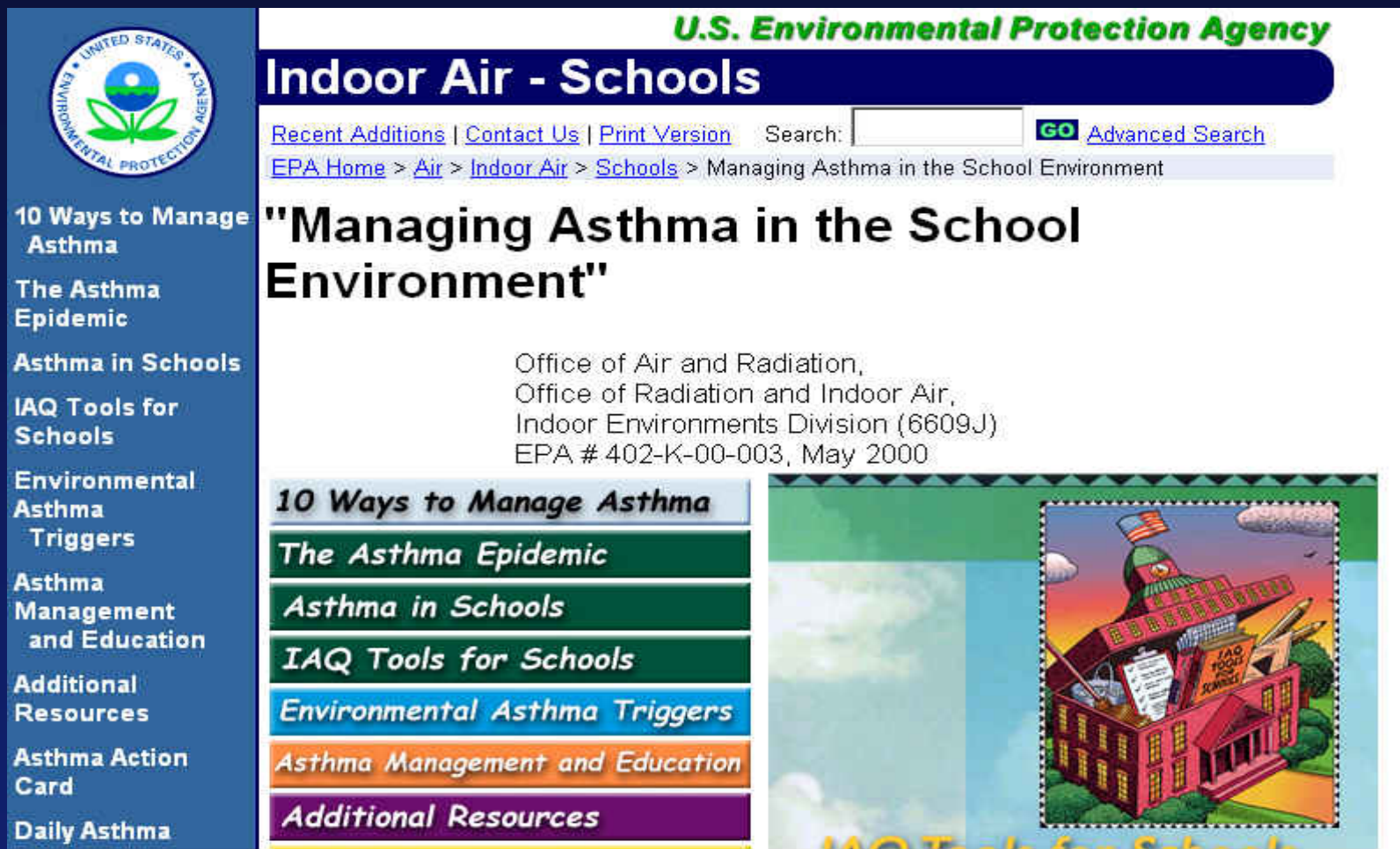
**Close Window**

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 Last modified on February 14, 2003



# Tox Town:

## EPA's Managing Asthma in Schools



The screenshot shows the EPA website interface. At the top right, it says "U.S. Environmental Protection Agency". Below that is a dark blue header with "Indoor Air - Schools" in white. A navigation bar contains links for "Recent Additions", "Contact Us", "Print Version", a search box with a "GO" button, and "Advanced Search". Below the navigation bar is a breadcrumb trail: "EPA Home > Air > Indoor Air > Schools > Managing Asthma in the School Environment". The main content area features the title "'Managing Asthma in the School Environment'" in large black font. To the right of the title is the text: "Office of Air and Radiation, Office of Radiation and Indoor Air, Indoor Environments Division (6609J) EPA # 402-K-00-003, May 2000". On the left side of the page is a vertical sidebar with a blue background and white text, listing various resources: "10 Ways to Manage Asthma", "The Asthma Epidemic", "Asthma in Schools", "IAQ Tools for Schools", "Environmental Asthma Triggers", "Asthma Management and Education", "Additional Resources", "Asthma Action Card", and "Daily Asthma". Below the title and text is a horizontal menu with seven items: "10 Ways to Manage Asthma", "The Asthma Epidemic", "Asthma in Schools", "IAQ Tools for Schools", "Environmental Asthma Triggers", "Asthma Management and Education", and "Additional Resources". To the right of this menu is a colorful illustration of a school building with a red roof and a green flag on top. The building has signs that say "IAQ TOOLS FOR SCHOOLS" and "IAQ TOOLS FOR SCHOOLS". The illustration is set against a background of a blue sky and green grass.





# Tox Town goes Urban: City Scene

<a href="#">Home</a>	<a href="#">(((Sound ON)))</a>	<a href="#">Site Map</a>	<a href="#">Help</a>	<a href="#">About</a>	<a href="#">Español</a>	<a href="#">Tox &amp; Health</a>	<a href="#">NLM</a>	<a href="#">Scenes</a>
<a href="#">Airplane</a>	<a href="#">Brownfield</a>	<a href="#">Construction</a>	<a href="#">Drinking Water</a>	<a href="#">EMFs</a>	<a href="#">Factory</a>	<a href="#">More Locations</a>		
<a href="#">Arsenic</a>	<a href="#">Asbestos</a>	<a href="#">Carbon Monoxide</a>	<a href="#">Lead</a>	<a href="#">Mercury</a>	<a href="#">Ozone</a>	<a href="#">Radon</a>	<a href="#">Toluene</a>	

**Construction**

- **Healthy Construction**
- **Chemicals and Construction**

**Web links from MEDLINEplus**  
(National Library of Medicine)

- **Eye Injuries**
- **Noise**
- **Occupational Health**
- **Haz-Map Occupational Health Info**  
(National Library of Medicine)
- **Construction home page**  
(National Institute for Occupational Safety and Health)
- **Construction Safety**  
(National Institute for Occupational Safety and Health)

**Text Version**  
Topic last reviewed 4/28/03

[Close Window](#)

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 Last modified on April 28, 2003    [What's new?](#)

Hospital  
 Construction site  
 Dentist office  
 EMF  
 Airplanes



# Tox Town: Hazards in Hospitals

Home ((Sound ON)) City Map Help About Español Tox & Health Neighborhoods

Ventilation Fan

Attic

Patients rooms

Water Fountain

ER

Operating Room

Bathroom

Janitor's Closet

Laundry

- Arsenic
- Asbestos
- Benzene
- Carbon Monoxide
- Chromium
- Lead
- Mercury**
- Nitrogen Oxides
- Particulate Matter
- Pesticides
- Phthalates
- Radon
- Sulfur Dioxide
- Toluene
- Volatile Organic Compounds

Return To City

Airplane Brownfield Construction Drinking Water EMFs Factory More Locations

Arsenic Asbestos Benzene Carbon Monoxide Chromium Lead More Chemicals

Mercury

- What is mercury?
- Mercury**  
(web links from the National Library of Medicine)
- Mercury** home page  
(Environmental Protection Agency)
- Mercury. ToxFAQs**  
(Agency for Toxic Substances and Disease Registry)
- Mercury Compounds. Hazardous Substances Data Bank**  
(National Library of Medicine)

Text Version  
Topic last reviewed 9/22/03

Close Window



# Tox Town: New US – Mexico Border Scene

## US-Mexico Border Locations

- Auto Shop
- Colonia
- Crop Fields
- Drinking Water
- Illegal Dumps & Tire Piles
- Maquiladora/Factory
- Outdoor Air
- Park
- Pests
- Pets
- River
- Stormwater
- Trash Burning
- Tienda/Store
- Vehicles

Home ((Sound ON)) Map Help About Español Tox & Health Neighbor





Auto Shop Colonia Crop Fields Drinking Water Maquiladora Tienda All Locations

Arsenic Asbestos Benzene Carbon Monoxide Chromium Lead All Chemicals

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 Tox Town developed by: [Specialized Information Services](#), [What's New?](#), Last modified on March 25, 2005

# Tox Town en Español

**Intro**

 **Tox Town en español** 

[Página principal](#) | [Inglés - página principal](#) | [Sitios](#) | [Sustancias químicas](#)

Tox Town ofrece enlaces a información en inglés sobre sustancias químicas tóxicas y temas de salud ambiental que son motivo de preocupación. Algunas de estas hojas informativas también se publican en español y se enumeran a continuación.

**Sitios**

Seleccione uno de los sitios para obtener más información sobre las sustancias químicas que podrían encontrarse ahí. Vaya a los enlaces para obtener información particular en Internet.

[Fábrica](#)  
[Río](#)  
[Oficinas y almacenes](#)  
[Vehículos](#)  
[Agua potable](#)

**Text Version**

**Welcome to Tox Town**

Information about exposure to toxic chemicals and environmental health risks you may encounter in everyday life, in various places.

**Sites**

Click on a location in town, like the factory, to find out more about the chemicals that could be in that location. You can also learn about health risks that might be in that location.

**Tools**

Click on a house over a chemical site to see where it might be found in town. Then click the button to get Internet information on that chemical.

**Are there chemicals in MY town?**

Tox Town developed by:  
Specialized Information Services  
National Library of Medicine NIH

**Arsenic** **Asbestos** **Carbon Monoxide** **Lead** **Mercury** **Ozone** **Radon** **Toluene**

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Last modified on February 14, 2003



## **Practice Exercises: Tox Town**

### **Tox Town**

**<http://toxtown.nlm.nih.gov>**

1. Go to the school from the Town or City scene
    - a. Find where lead may be found in schools
    - b. Find the link to the Lead ToxFAQ from the Agency for Toxic Substances and Disease Registry. Is the Lead ToxFAQ available in Spanish?
  2. Find information on controlling pests around the home.
  3. Use the Spanish text version of Tox Town to locate information on hazards at construction sites and farms.
- 
1. Seleccione la escena de la escuela, de la ciudad o el pueblo.
    - a. ¿Dónde se puede encontrar plomo en las escuelas?
    - b. Localize el enlace al plomo ToxFAQ del registro de la Agencia de Sustancias Tóxicas y Enfermedades. ¿Puede Ud. encontrar información acerca del plomo en ToxFAQ en español?
  2. Encuentre información sobre el control de parásitos en el hogar.
  3. Utilice la versión española de Tox Town para encontrar información acerca de los riesgos en lugares de construcción y en las granjas.

**Tox Town**  
**Suggested Solutions**  
<http://toxtown.nlm.nih.gov>

There is no need to write down or print answers. Please perform the search to find and display the information requested to ensure that you have correctly followed the search process.

1. Find information about children's blood lead levels in the U.S.

Keyboard Help:

Go to **<http://toxtown.nlm.nih.gov>** in your Web browser

Click **Go to Town**

Click **Lead** from the row of chemicals at the bottom of the screen

Click **Childhood Lead Poisoning Prevention** from the right side bar

Scroll down

Click **Children's Blood Lead Levels in the United States**

Review the information retrieved

**Return to the Tox Town home page to prepare for the next search**

2. Name a few dos and don'ts for controlling pests around the home.

Keyboard Help:

Click **Go to Town**

Click on the **bee hive** **OR**

Click on **All Locations** and select **Pests** from the right side bar

Click on **Health Pest Control**

Click on **Pesticides: Controlling Pests**

Click on **Around the Home** from the left side bar

Click on **Dos and Don'ts** from the **Highlights**

Review the information retrieved

**Return to the Tox Town home page to prepare for the next search**

3. What are some common locations for pesticides in offices and stores?

Keyboard Help:

Click **Go to Town**

Click **Offices & Stores**

Move the cursor over **Chemical Hot Spots** and stop at **Pesticides**

Review the hot spots

**Return to the Tox Town home page to prepare for the next search**

4. Where can I find information about *wood dust* as a health hazard on a construction site?

Keyboard Help:

Click **Go to City**

Click **Construction**

Click **Construction and Your Health**


Click **Wood Dust**

Review the information retrieved

# Household Products Database

<http://householdproducts.nlm.nih.gov>









**Household Products Database**

National Library of Medicine  
Specialized Information Services 

Home Products Ingredients MSDS

Browse by Categories Browse Alphabetically Search

Choose a Product Category

 <p><b>Auto Products</b> Brake Fluid, De-icer, Lubricant, Sealant, and more...</p>	 <p><b>Inside the Home</b> Air Freshener, Bleach, Toilet Bowl Cleaner, and more...</p>
 <p><b>Pesticides</b> Animal Repellent, Fungicide, Herbicide, Insecticide, and more...</p>	 <p><b>Landscape / Yard</b> Fertilizer, Lawn Care, Swimming Pool Products, and more...</p>
 <p><b>Personal Care / Use</b> Antiperspirant, Hair Spray, Makeup, Shampoo, Soap, and more...</p>	 <p><b>Home Maintenance</b> Caulk, Grout, Insulation Paint, Putty, Stain, and more...</p>
 <p><b>Arts &amp; Crafts</b> Adhesive, Glaze, Gule Primer, Varnish, and more...</p>	 <p><b>Pet Care</b> Flea &amp; Tick Control, Litter, Stain/Odor Remover and more...</p>



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# Household Products Database

Select  
Category:  
*Deodorant*  
Select Type:  
*Deodorant/*  
*Antiperspirant*  
*combination*  
Select Brand:  
*Arrid Extra*  
*Dry*

National Institutes of Health  
 National Library of Medicine  
 Specialized Information Services



## Household Products Database

Home Products Ingredients MSDS

Browse by Categories

Browse Alphabetically

Search

Browse the Personal Care/Use Category ▶ [Product Category](#) ▶ [Personal care/Use](#)

Category	Type	Brand Name
<a href="#">Babies &amp; Kids</a>	<a href="#">antiperspirant</a>	<a href="#">Arm &amp; Hammer Deodorant Antiperspirant Spray</a>
<a href="#">Bath/Shower Products</a>	<a href="#">body powder</a>	<a href="#">Arrid Extra Dry Antiperspirant and Deodorant Spray</a>
<a href="#">Body Makeup</a>	<a href="#">body soap</a>	<a href="#">Arrid XX Antiperspirant and Deodorant Solid, Regular</a>
<a href="#">Eye Care/Makeup</a>	<a href="#">body soap, antibacterial</a>	<a href="#">Arrid XX Antiperspirant and Deodorant Solid, Ultra</a>
<a href="#">Face Makeup</a>	<a href="#">body wash</a>	<a href="#">Arrid XX Antiperspirant and Deodorant Spray, Regular</a>
<a href="#">Fragrances</a>	<a href="#">body wash, antibacterial</a>	<a href="#">Degree Roll On Antiperspirant and Deodorant</a>
<a href="#">Hair Care</a>	<a href="#">care giving</a>	<a href="#">Gillette Dry Idea Clear Gel Antiperspirant &amp; Deodorant</a>
<a href="#">Hair Color</a>	<a href="#">deodorant</a>	<a href="#">Secret Antiperspirant &amp; Deodorant Spray, Powder Fresh</a>
<a href="#">Manicuring Products</a>	<a href="#">deodorant &amp; antiperspirant, comb</a>	<a href="#">Secret Antiperspirant &amp; Deodorant Spray, Spring Breeze</a>
<a href="#">Men's Products</a>	<a href="#">facial cleaner</a>	<a href="#">Secret Antiperspirant and Deodorant Roll On, Regular</a>
<a href="#">Oral Hygiene</a>	<a href="#">hand cleaner</a>	<a href="#">Secret Antiperspirant and Deodorant-</a>
<a href="#">Other</a>	<a href="#">hand cleaner, antibacterial</a>	
<a href="#">Personal Cleanliness</a>	<a href="#">wipes</a>	
<a href="#">Skin Care</a>		



# Household Products: Brand Information

*Brand Information*  
*Manufacturer*  
*Health Effects*  
*Handling/Disposal*  
*Ingredients*

**Products Database** Specialized Information Services **NLM**

[Home](#) [Products](#) [Ingredients](#) [MSDS](#)

[Browse by Categories](#) [Browse Alphabetically](#) [Search](#)

---

**Brand Information**

**Brand Name:** Arrid Extra Dry Antiperspirant and Deodorant Spray  
**Form:** aerosol  
**Product Category:** Personal care/use >> Personal Cleanliness >> deodorant & antiperspirant, comb.  
**Customer Service No.:** 212-339-5000  
**Date Entered:** 1997-08-01  
**Related Items:** [Products with similar usage in this database](#)

---

**Manufacturer**

**Manufacturer:** Church & Dwight Co., Inc.  
**Address:** 469 N. Harrison Street  
**City:** Princeton  
**State:** NJ  
**Zip Code:** 08540  
**Telephone Number:** 609-683-5900  
**Fax Number:** 609-683-5092  
**Toll Free Number:** 800-524-1328  
**Date Info Verified:** 2004-02-11  
**Related Items:** [Products by this manufacturer](#)

---

**Health Effects** [Search TOXNET](#)



# Household Products: Health Effects

## Health Effects

[Search TOXNET](#)

The following information (Health Effects, Handling/Disposal, and Ingredients) is taken from the product label and/or the [Material Safety Data Sheet \(MSDS\)](#) prepared by the manufacturer. The National Library of Medicine does not evaluate information from the product label or the Material Safety Data Sheet.

**Warning from Product Label:** Flammable. Do not spray near flame or while smoking. Avoid excessive inhalation. Use only as directed; intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. Do not apply to broken, irritated or sensitive skin. If rash or irritation develops, discontinue use. Avoid spraying into eyes. Contents under pressure. Do not puncture or incinerate container. Do not expose to heat or store at temperatures above 120 degrees F. Keep out of reach of children.

**Acute Health Effects:** From MSDS  
Occupational exposure is not expected to produce adverse human health effects following normal workplace practices. Product has very low acute toxicity. Slight skin irritation from skin contact is possible in sensitive individuals. Direct eye contact may cause temporary discomfort with mild redness and dryness. Propellant is a simple asphyxiant.

**Chronic Health Effects:** MSDS: No known chronic health effects.

**Carcinogenicity:** The manufacturer's Material Safety Data Sheet (MSDS) provides no information about carcinogenicity.

**Health Rating:** N

**Flammability Rating:** N

**Reactivity Rating:** N

**HMIS Rating Scale:** 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe; N = No information provided by manufacturer; \* = Chronic Health Hazard

**MSDS Date:** 1996-08-06

## Handling/Disposal



# Household Products: Ingredients

Information about carcinogenicity:

**Health Rating:** N  
**Flammability Rating:** N  
**Reactivity Rating:** N  
**HMS Rating Scale:** 0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe;  
 N = No Information provided by manufacturer; \* = Chronic Health Hazard  
**MSDS Date:** 1996-08-06

## Handling/Disposal

**Handling:** MSDS: Store away from heat or flame sources.  
**Disposal:** MSDS: Place cans into waste receptacles that allow for the natural aeration of possible gas discharge (2" holes cut into the bottom half of the receptacle) and dispose of in accordance with environmental regulations.

## Ingredients from MSDS/Label

Chemical	CAS No / Unique ID	Percent
<a href="#">Aluminum chlorohydrate anhydrous</a>	001327-41-9	
<a href="#">Isobutane</a>	000075-28-5	
<a href="#">Butane</a>	000106-97-8	
<a href="#">Propane</a>	000074-98-6	
<a href="#">Fragrance(s)/perfume(s)</a>	000000-00-1	
<a href="#">Cyclomethicone</a>	069430-24-6	
<a href="#">1,1-Difluoroethane (Hydrofluorocarbon 152A)</a>	000075-37-6	
<a href="#">Isopropyl palmitate</a>	000142-91-6	
<a href="#">Quaternium-18 bentonite</a>	068953-58-2	

Note: Brand names are trademarks of their respective holders.

Information is extracted from Consumer Product Information Database ©2004 by DeLima Associates. All rights reserved.



# Household Products: Chemical Information

## Household Products Database

National Institutes of Health  
National Library of Medicine  
Specialized Information Services



Home

Products

Ingredients

MSDS

Browse  
Alphabetically

Search

### Chemical Information

**Chemical Name:** Aluminum chlorohydrate anhydrous

**CAS Registry Number:** 001327-41-9

**Synonyms:** Aluminum chlorohydrate (1); Aluminum hydroxychloride; Aluminum oxychloride; Aluminum sesquichlorohydrate; Aluminum chlorohydrate anhydrous; Aluminum sesquichlorohydrate [USAN]; Aluminum chloride hydroxide; Aluminum chloride, basic

### Information from other National Library of Medicine databases

**Health Studies:** \*\*\*No information available in HSDB at this time\*\*\*

**Toxicity Information:** [Search TOXNET](#)

**Chemical Information:** [Search ChemIDplus](#)

**Biomedical:** [Search PubMed](#)

**References:**

### Products that contain this ingredient

Brand	Category	Form	Percent
<a href="#">Arrid Extra Dry Antiperspirant and Deodorant Spray</a>	Personal care/use	aerosol	
<a href="#">Arrid XX Antiperspirant and Deodorant Spray, Regular</a>	Personal care/use	aerosol	
<a href="#">Right Guard Sport, Antiperspirant &amp; Deodorant Aerosol, Fresh</a>	Personal care/use	aerosol	8.2



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## Practice Exercises: Household Products Database

### Household Products Database

<http://hpd.nlm.nih.gov>

1. What is the main chemical in DAP Alex Plus Latex Caulk?
2. Linseed oil can be used as paint thinner. What other products contain linseed oil?
3. What is the toxicity of sodium hypochlorite?

1. ¿Cual es la principal sustancia química en DAP Alex Látex Calafatea?
2. El aceite de linaza se puede utilizar como diluyente de pintura. ¿Cuáles son otros productos que contienen aceite de linaza?
3. ¿Cual es la toxicidad del hipoclorito de sodio?

**Household Products Database**  
**Suggested Solutions**  
<http://hpd.nlm.nih.gov>

There is no need to write down or print answers. Please perform the search to find and display the information requested to ensure that you have correctly followed the search process.

1. What is the main chemical in DAP Alex Plus Latex Caulk?

Keyboard Help:

Go to **<http://hpd.nlm.nih.gov>** in your Web browser

Click **Products**

Click **Home Maintenance**

Click **Caulk**

Click **latex**

Click **DAP Alex Plus Latex Caulk**

Scroll down to the **Ingredients from MSDS/Label**

Review the information retrieved

**Return to the Household Products home page to prepare for the next search**

2. Linseed oil can be used as a paint thinner. Find some other products that contain linseed oil.

Keyboard Help:

Click **Ingredients**

Type **linseed oil** in the query box and Click **Search**

Click **linseed oil**

Review the list of **Products that contain this ingredient**

**Return to the Household Products home page to prepare for the next search**

3. Search the health effects from MSDS pages to identify products that could *irritate* some part of the body?

Keyboard Help:

Click **MSDS**

Type **irritate** in the query box and Click the **Search** button  
Click on a product  
Review the **Health Effects** information  
**Return to the Household Products home page to prepare for the next search**

4. Find the telephone number for the manufacturer of Clorox bleach.

Keyboard Help:

Click **Products**  
Click **Inside the Home**  
Click **Bleach**  
Click **laundry**  
Click **Clorox Laundry Bleach**  
Review the **Manufacturer** information retrieved  
**Stay on this record**

5. How can I learn about the toxicity of sodium hypochlorite?

Keyboard Help:

Click on **Sodium hypochlorite** in the **Ingredients from MSDS/Label** field from the previous search  
Click **Search TOXNET** from the **Chemical Information** field  
Review the information retrieved  
Find **HSDB**  
Click on **326**  
Click **SODIUM HYPOCHLORITE**  
Review the **Human Toxicity Excerpts** information retrieved



# Haz-Map:

## An Occupational Health Database

*Links jobs  
and  
hazardous  
tasks to  
occupational  
diseases,  
symptoms, &  
agents*



**Haz-Map**  
Occupational Exposure to Hazardous Agents

SIS NLM

Search  as Agent Disease Job Text Search

Haz-Map Search More Searches Haz-Map Help Glossary References

**Browse Haz-Map**

- **Hazardous Agents**
  1. [By Types of Agents](#)
  2. [By Adverse Effects](#)
  3. [Alphabetically](#)
- **Occupational Diseases**
  1. [By Types of Diseases](#)
  2. [By Jobs and Symptoms](#)
  3. [Alphabetically](#)
- **High Risk Jobs**
  1. [By Types of Jobs](#)
  2. [Alphabetically](#)



# Haz-Map: An Occupational Health Database



## Search

example:

*Potential causes of dizziness and chest tightness in farmers*

Browse Haz-Map : find diseases by jobs & symptoms

Find diseases associated with one or more criteria, for example, search for the diseases associated with "carpenters", with "cough", or with "cough" AND "carpenters".

Select a job:

Farmers & Ranchers

Search Clear

Indicate symptoms:

<b>General</b> <ul style="list-style-type: none"><li><input type="checkbox"/> anorexia</li><li><input checked="" type="checkbox"/> dizziness</li><li><input type="checkbox"/> fatigue</li><li><input type="checkbox"/> fever</li><li><input type="checkbox"/> myalgia</li><li><input type="checkbox"/> syncope</li></ul>	<b>Respiratory</b> <ul style="list-style-type: none"><li><input checked="" type="checkbox"/> chest tightness</li><li><input type="checkbox"/> clubbing</li><li><input type="checkbox"/> cough</li><li><input type="checkbox"/> dyspnea, acute</li><li><input type="checkbox"/> dyspnea, exertional</li><li><input type="checkbox"/> inspiratory rales</li></ul>	<b>Skin</b> <ul style="list-style-type: none"><li><input type="checkbox"/> acne</li><li><input type="checkbox"/> burn, caustic or corrosive chemical</li><li><input type="checkbox"/> cyanosis, acute</li><li><input type="checkbox"/> dermatitis</li><li><input type="checkbox"/> ecchymoses,</li></ul>
--	---	--



# Haz-Map: Organophosphate pesticide poisoning in farm workers



Search  as  Agent  Disease  Job  Text Search

[Haz-Map Search](#) [More Searches](#) [Haz-Map Help](#) [Glossary](#) [References](#)

[Browse Haz-Map](#)

[Search TOXNET](#)

<b>Disease/Syndrome</b>	Organophosphate & carbamates, acute
<b>Category</b>	Acute Poison
<b>Acute/Chronic</b>	Acute-Severe
<b>Biomedical References</b>	<a href="#">Search PubMed</a>
	<p>The organophosphate and N-methyl carbamate insecticides cause accumulation of acetylcholine at nerve endings by poisoning the acetylcholinesterase enzyme. In carbamate poisoning, the inhibition of the enzyme is rapidly reversible, and the workers are often improved by the time of arrival at the clinic or emergency room. Organophosphates (OPs) can irreversibly bind to the enzyme so that normal enzyme activity can only be restored after the cells synthesize new acetylcholinesterase. This process takes up to 60 days. Irreversible binding of OPs to the enzyme can be prevented by initiating treatment immediately after poisoning. The primary route of occupational exposure is through the skin. Routine biological monitoring of field workers and</p>



# Haz-Map: Link to PubMed

**Haz-Map** SIS NLM

Entrez PubMed - Microsoft Internet Explorer provided by National Institutes of Health

File Edit View Favorites Tools Help

Address <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=PubMed&term=Insectici>

**Entrez PubMed**  
Overview  
Help | FAQ  
Tutorial  
New/Noteworthy  
E-Utilities

**PubMed Services**  
Journals Database  
MeSH Database  
Single Citation  
Matcher  
Batch Citation  
Matcher  
Clinical Queries  
LinkOut  
Cubby

**Related Resources**  
Order Documents

**1:** [Delgado IF, Paumgarten FJ.](#) [Pesticide use and poisoning among farmers from the county of Paty do Alferes, Janeiro, Brazil] *Cad Saude Publica.* 2004 Jan-Feb;20(1):180-6. Epub 2004 Mar 08. Portuguese. PMID: 15029319 [PubMed - indexed for MEDLINE]

**2:** [Stacey R, Morfey D, Payne S.](#) Secondary contamination in organophosphate poisoning: analysis of an incident. *QJM.* 2004 Feb;97(2):75-80. PMID: 14747621 [PubMed - indexed for MEDLINE]

**3:** [Miranda J, McConnell R, Wesseling C, Cuadra R, Delgado E, Torres E, Keifer M, Lundberg I.](#) Muscular strength and vibration thresholds during two years after acute poisoning with organophosphate insecticides. *Occup Environ Med.* 2004 Jan;61(1):e4. PMID: 14691285 [PubMed - indexed for MEDLINE]

**4:** [Hernandez AF, Mackness B, Rodrigo L, Lopez O, Pla A, Gil F, Durrington PN, Pena G, Parron T, Serrano JL, Mackness MI.](#)



# Haz-Map: Link to Chlorpyrifos

Browse Haz-Map		Search TOXNET
<b>Agent Name</b>	Chlorpyrifos	
<b>Alternative Name</b>	Dursban	
<b>CAS Number</b>	2921-88-2	
<b>Formula</b>	C9-H11-Cl3-N-O3-P-S	
<b>Major Category</b>	Pesticides	
<b>Synonyms</b>	Chlorpyrifos-ethyl; O,O-Diethyl O-3,5,6-trichloro-2-pyridyl phosphorothioate; Dursban; Brodan; Detmol UA, Dowco 179, Empire, Eradex, Lorsban, Pageant, Piridane, Scout, Stipend	
<b>Category</b>	Organophosphates	
<b>Description</b>	Colorless to white, crystalline solid with a mild, mercaptan-like odor. [pesticide]	
<b>Sources/Uses</b>	Widely used in homes and on farms for cockroaches, fleas, termites, ticks, and crop pests; [ATSDR ToxFAQs]	
<b>Comments</b>	The EPA reentry interval is 24 hours for emulsifiable concentrate or wettable powder if workers are not wearing protective clothing. Chlorpyrifos is classified as "moderately toxic." [EXTOXNET] A small number of the organophosphates (OPs) can induce Delayed Neuropathy (OPIDN). OPIDN usually occurs after ingestion and is usually nonoccupational. [Levy, p. 522]	
<b>Reference Link</b>	<a href="#">EXTOXNET PIP - CHLORPYRIFOS</a>	
<b>Exposure Assessment</b>		
<b>Skin Designation (ACGIH)</b>	Yes	
<b>TLV (ACGIH)</b>	0.1 mg/m3, inhalable fraction (vapor and aerosol)	
<b>Vapor Pressure</b>	2 x 10 <sup>-05</sup> mm Hg	
<b>Reference Link</b>	<a href="#">ATSDR - ToxFAQs - Chlorpyrifos (Dursban)</a>	



## Practice Exercises: Haz-Map

### Haz-Map Search Problems <http://hazmap.nlm.nih.gov>

1. What are some high risk tasks associated with health care workers?
  2. What are some of the occupational diseases associated with auto workers?
  3. Find information on hazardous agents associated with the mining industry?
  4. What are some adverse affects associated with the use of *asbestos* in the workplace?
- 
1. ¿Cuáles son algunas de las funciones de alto riesgo asociadas con los trabajadores de salud?
  2. ¿Cuáles son algunas de las enfermedades ocupacionales que afectan a los trabajadores de automóviles?
  3. Encuentre información acerca de agentes peligrosos asociados con la industria minera.
  4. ¿Cuáles son algunos efectos adversos asociados con el uso de asbestos en el trabajo?

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- ▶ [Even Low Doses of Aspirin Raise Bleeding Risk](#)
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Childhood obesity is in the news. [We Can!](#) offers suggestions on physical activities and nutrition.

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- ▶ [West Nile Virus](#)
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


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## Health Topics

Find your topic by first letter:

<a href="#">A</a>	<a href="#">B</a>	<a href="#">C</a>	<a href="#">D</a>	<a href="#">E</a>	<a href="#">F</a>	<a href="#">G</a>	<a href="#">H</a>
<a href="#">I</a>	<a href="#">J</a>	<a href="#">K</a>	<a href="#">L</a>	<a href="#">M</a>	<a href="#">N</a>	<a href="#">O</a>	<a href="#">P</a>
<a href="#">Q</a>	<a href="#">R</a>	<a href="#">S</a>	<a href="#">T</a>	<a href="#">U</a>	<a href="#">V</a>	<a href="#">W</a>	<a href="#">XYZ</a>

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### Disorders and Conditions - Body Location/Systems

- [Blood/Lymphatic System](#)
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- [Brain and Nervous System](#)
- [Cancers](#)
- [Digestive System](#)
- [Ear, Nose, and Throat](#)
- [Endocrine System \(Hormones\)](#)
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## Interactive Health Tutorials

The tutorials listed below are interactive health education resources from the [Patient Education Institute](#). Using animated graphics each tutorial explains a procedure or condition in easy-to-read language. You can also listen to the tutorial.

NOTE: These tutorials require a special Flash plug-in, version 6 or above. If you do not have Flash, you will be prompted to obtain a free download of the software before you start the tutorial.

### Diseases and Conditions

- [AIDS](#)
- [Abdominal Aortic Aneurysm](#)
- [Acne](#)
- [Allergies to House Dust Mites](#)
- [Alopecia](#)
- [Amyotrophic Lateral Sclerosis \(ALS\)](#)
- [Angina](#)
- [Anthrax](#)
- [Arrhythmias](#)
- [Arthritis](#)
- [Asthma](#)
- [Atrial Fibrillation](#)
- [Back Pain - How to Prevent](#)
- [Bell's Palsy](#)
- [Brain Cancer](#)
- [Breast Cancer](#)
- [Burns](#)
- [COPD \(Chronic Obstructive Pulmonary Disease\)](#)
- [Cataracts](#)
- [Cerebral Palsy](#)
- [Cold Sores \(Herpes\)](#)

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- [Echocardiography Stress Test](#)
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## Drug Information

Information on thousands of prescription and over-the-counter medications is provided through two drug resources -- MedMaster™†, a product of the [American Society of Health-System Pharmacists \(ASHP\)](#), and the USP DI® Advice for the Patient® ‡, a product of the [United States Pharmacopeia \(USP\)](#).

Browse by first letter of generic or brand name drug:

<a href="#">A-Am</a>	<a href="#">An-Az</a>	<a href="#">B</a>	<a href="#">C-Ch</a>	<a href="#">Ci-Cz</a>	<a href="#">D-Dh</a>	<a href="#">Di-Dz</a>
<a href="#">E</a>	<a href="#">E</a>	<a href="#">G</a>	<a href="#">H</a>	<a href="#">I-J</a>	<a href="#">K-L</a>	<a href="#">M-Mh</a>
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For additional drug information, see the MedlinePlus [drug therapy](#) topic pages.

The [Food and Drug Administration](#) provides late-breaking news on:

- [Consumer Drug Information](#)
- [Warnings, Recalls, and other Drug Information](#)
- [Medical Product Safety Information](#) from MedWatch

For drugs in clinical research studies, see [ClinicalTrials.gov](#)

Search [MEDLINE/PubMed](#) for specific research articles on your drug

† The MedMaster™ Patient Drug Information database provides information copyrighted by the American Society of Health-System Pharmacists, Inc., Bethesda, Maryland Copyright© 2005. All Rights Reserved.



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# MedlinePlus en español

Omita y vaya al Contenido



## MedlinePlus®

Información de Salud para Usted

Un servicio de la  
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y los INSTITUTOS NACIONALES DE LA SALUD

**Buscar**

[Sobre MedlinePlus](#) | [Índice](#) | [FAQs](#) | [Contáctenos](#) **English**

### Temas de Salud

Comience su búsqueda en esta sección para encontrar información sobre diversas condiciones, enfermedades y bienestar

### Medicinas

Acerca de sus medicinas de receta y de venta libre

### Enciclopedia Médica

Artículos sobre enfermedades, pruebas médicas, síntomas, lesiones y cirugías; además de fotografías e ilustraciones

### Tutoriales Interactivos

Programas de educación al paciente con gráficas animadas y sonido

### Noticias

Noticias de salud en los últimos 90 días

### Noticias de Salud

- ▶ [El alcohol puede reducir el riesgo de linfoma no Hodgkin](#)
- ▶ [Epidemia de obesidad causa más dolor de espalda](#)
- ▶ [Tratamiento de estatina no ayuda al problema de válvula cardíaca](#)
- ▶ [Más noticias...](#)

### Página Recomendada

 La obesidad infantil está en las noticias. [Vea: Obesidad infantil](#)

### Últimas Novedades

- ¡Cuidado con los insectos!
- ▶ [Enfermedad de Lyme](#)
- ▶ [Virus de Nilo occidental](#)
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Actualizado: 10 junio 2005  
Dirección de esta página: <http://medlineplus.gov/spanish/>



<http://toxnet.nlm.nih.gov>

Search All  
databases for  
the effects of  
*TCE* on children

The screenshot shows the TOXNET website interface. At the top left is the United States National Library of Medicine (NLM) logo. The main header is green with the text 'TOXNET Toxicology Data Network'. Below the header is a navigation bar with links: 'TOXNET PDA Access', 'Contact Us', 'SIS Home', 'About Us', and 'Site Map & Search'. A breadcrumb trail indicates 'Env. Health & Toxicology > TOXNET'. The main content area features a search interface with a 'Select Database' list on the left, a 'Search All Databases' search box in the center, and a 'Support Pages' list on the right. The search box contains the text 'tce children' and is circled in red. Below the search box are 'Search', 'Clear', and 'Help' buttons. The 'Support Pages' list includes links for 'Help', 'TOXNET FAQ', 'TOXNET Update Status', 'Database Description', 'Training Manuals', and 'News'. At the bottom of the page, there is a footer with copyright information and contact details for the U.S. National Library of Medicine.

United States National Library of Medicine

## TOXNET

Toxicology Data Network

TOXNET PDA Access | Contact Us | SIS Home | About Us | Site Map & Search

Env. Health & Toxicology > TOXNET

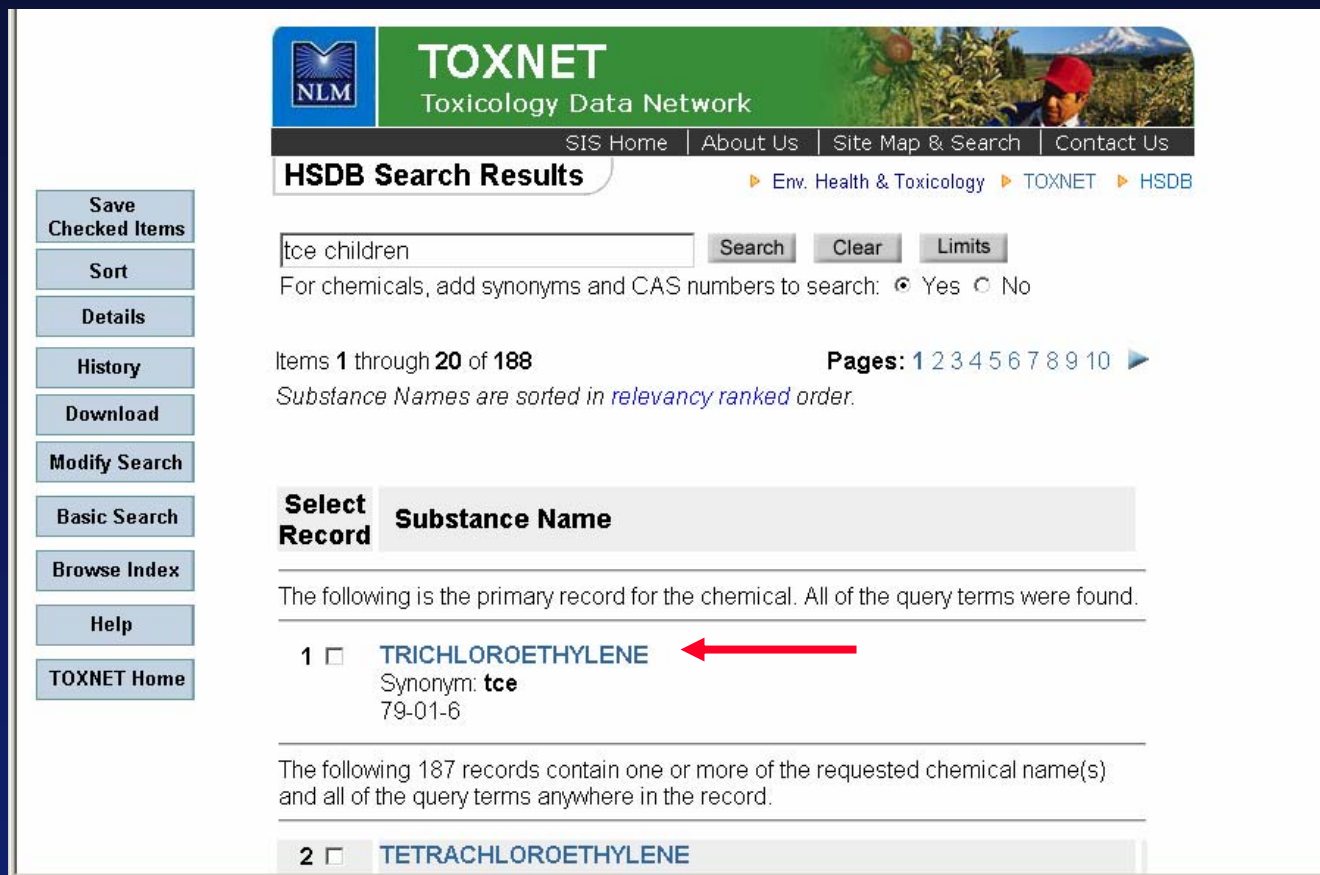
TOXNET - Databases on toxicology, hazardous chemicals, environmental health, and toxic releases.

Select Database	Search All Databases	Env. Health & Toxicology
<ul style="list-style-type: none"><li>• ChemIDplus</li><li>• HSDB</li><li>• TOXLINE</li><li>• CCRIS</li><li>• DART</li><li>• GENETOX</li><li>• IRIS</li><li>• ITER</li><li>• Multi-Database</li><li>• TRI</li><li>• Haz-Map</li><li>• Household Products</li><li>• TOXMAP</li></ul>	<p>Enter term(s) to search all databases.</p> <input type="text" value="tce children"/> <p>Search Clear Help</p> <p><b>TOXNET Search Options</b></p> <ul style="list-style-type: none"><li>• Search all databases: Enter term(s) in box above</li><li>• Search a specific database: Click database at left</li><li>• Database description: Click on the [?]</li></ul>	<p>Portal to environmental health and toxicology resources.</p> <p>VISIT SITE</p> <p><b>Support Pages</b></p> <ul style="list-style-type: none"><li>▶ Help</li><li>▶ TOXNET FAQ</li><li>▶ TOXNET Update Status</li><li>▶ Database Description</li><li>▶ Training Manuals</li><li>▶ News</li></ul>

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National Institutes of Health, Health & Human Services



# Hazardous Substances Data Bank (HSDB) Search Results



**TOXNET**  
Toxicology Data Network

SIS Home | About Us | Site Map & Search | Contact Us

## HSDB Search Results

▶ Env. Health & Toxicology ▶ TOXNET ▶ HSDB

tce children

For chemicals, add synonyms and CAS numbers to search:  Yes  No

Items 1 through 20 of 188 **Pages:** 1 2 3 4 5 6 7 8 9 10 ▶

*Substance Names are sorted in relevancy ranked order.*

Select Record	Substance Name
1 <input type="checkbox"/>	<b>TRICHLOROETHYLENE</b> ←
	Synonym: <b>tce</b> 79-01-6
The following 187 records contain one or more of the requested chemical name(s) and all of the query terms anywhere in the record.	
2 <input type="checkbox"/>	<b>TETRACHLOROETHYLENE</b>

**Save Checked Items**  
**Sort**  
**Details**  
**History**  
**Download**  
**Modify Search**  
**Basic Search**  
**Browse Index**  
**Help**  
**TOXNET Home**



# HSDB TCE Record: Information on Children

Human Health  
Effects  
Emergency Medical  
Treatment  
Environmental  
Fate/Exposure  
Environmental  
Standards &  
Regulations  
Chemical/Physical  
Properties

HSDB

Next Item Search Results Basic Search Details Other Files Modify Search

Download

TOXNET Home

Item 1 of 1

Contract all categories  
Expand all categories

Contents

Select Clear

- FULL RECORD
- BEST SECTIONS
- 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

**TRICHLOROETHYLENE**  
Synonym: tce  
CASRN: 79-01-6  
*For other data, click on the Table of Contents*

**Best Sections**

**Human Toxicity Excerpts :**

Childhood leukemia in a community in Massachusetts, USA, where water from two wells was contaminated with **trichloroethylene** /was studied/. Measurements made in 1979 showed a concentration of 267 ppb (ug/l) **trichloroethylene** in the well water. Twenty cases of childhood leukemia were diagnosed in the community in 1964-83, and these were associated with a significantly higher estimated cumulative exposure to water from the two contaminated wells than a random sample of **children** from the community (observed cumulative exposure, 21.1; expected cumulative exposure, 10.6; p= 0.03).  
[IARC. Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. Geneva: World Health Organization, International Agency for Research on Cancer, 1972-PRESENT. (Multivolume work) .,p. V63 103 (1995)]\*\*PEER REVIEWED\*\*

**Drug Warnings :**

**TRICHLOROETHYLENE** HAS BEEN REPORTED TO CAUSE CONVULSIONS IN **CHILDREN**; THEREFORE, IT SHOULD NOT BE USED IN PATIENTS WITH CONVULSIVE DISORDERS.  
[Osol, A. (ed.). Remington's Pharmaceutical Sciences, 16th ed. Easton,



# TOXLINE

***New Default:***  
**Search TOXLINE**  
**Core and**  
**TOXLINE Special**  
**simultaneously**

The screenshot shows the TOXNET website interface. At the top left is the logo for the United States National Library of Medicine (NLM). To its right is the TOXNET logo and the text 'Toxicology Data Network'. Below this is a navigation bar with links for 'TOXNET PDA Access', 'SIS Home', 'About Us', 'Site Map & Search', and 'Contact Us'. A breadcrumb trail indicates the current location: 'Env. Health & Toxicology > TOXNET > TOXLINE'. The main heading is 'Toxicology Literature Online (TOXLINE) - References from toxicology literature.' Below this are three main sections: 'Select Database', 'Search TOXLINE', and 'Env. Health & Toxicology'. The 'Select Database' section lists various databases, with 'TOXLINE' highlighted in blue. The 'Search TOXLINE' section has a search input field containing 'toxic children', which is circled in red. Below the input field is a description: '(e.g. asphalt fumes roofers, calcium aging, Neville DM autoimmune)'. There are 'Search', 'Clear', and 'Help' buttons. Below these are instructions: 'For chemicals, add synonyms and CAS numbers to search:' followed by radio buttons for 'Yes' (selected) and 'No'. There are also radio buttons for 'Search in' with options: 'TOXLINE Special', 'TOXLINE Core on PubMed', and 'Both' (selected). At the bottom of the search section are 'Limits' and 'Browse the Index' buttons. The 'Env. Health & Toxicology' section features a 'Portal to environmental health and toxicology resources' with a 'VISIT SITE' button and a 'Support Pages' section with links for 'Help', 'Fact Sheet', 'Sample Record', and 'TOXNET FAQ'. At the bottom of the page is the copyright information: 'Copyright, Privacy, Accessibility U.S. National Library of Medicine, 8600 Rockville Pike, Bethesda, MD 20894 National Institutes of Health, Health & Human Services'.



# TOXLINE Results

*Two windows appear; one for Core and one for Special*

The screenshot displays the TOXNET Toxicology Data Network interface. At the top, the NLM logo and 'TOXNET Toxicology Data Network' are visible, along with navigation links for 'SIS Home', 'About Us', 'Site Map & Search', and 'Contact Us'. Below this, the 'TOXLINE Special Search Results' section shows a breadcrumb trail: 'Env. Health & Toxicology > TOXNET > TOXLINE Special'. A sidebar on the left contains buttons for 'Save Checked Items', 'Sort', 'Details', 'History', 'Download', 'Modify Search', 'Basic Search', 'Browse Index', 'Help', and 'TOXNET Home'. The main content area is a browser window titled 'Entrez PubMed - Microsoft Internet Explorer' showing a search query: 'tce children AND 1900:2000[dp] AND Tox[sb]'. The search results are displayed in a table with columns for 'Limits', 'Preview/Index', 'History', 'Clipboard', and 'Details'. The first result is 'Human variability and susceptibility to trichloroethylene' by Pastino GM, Yap WY, and Carroquino M, published in 'Environ Health Perspect.' in 2000. The second result is 'Determination of chloral hydrate metabolites in human plasma by gas chromatography-mass spectrometry' by Yan Z, Henderson GN, James MO, and Stacpoole PW.





## ■ Practice Exercises: TOXNET

<http://toxnet.nlm.nih.gov>

1. Does *nitrobenzene* have any effect on sperm? (HSDB)
2. What are some chemicals used in dry cleaning and what are their human health effects? (HSDB, TOXLINE)
3. What pesticides have been found in breast milk? What are the human health effects of these pesticides? (HSDB, TOXLINE)
4. Find references on health effects of pesticides on Central American farmers. (TOXLINE)

5. Try your own search

Suggestions:

Find information on PCB levels in children?

Find the acceptable daily intakes and drinking water standards for lead.

1. Encuentre información acerca del efecto que tiene la *nitrobenzene* en el espermatozoide (HSDB)
2. ¿Cuáles son algunas de las sustancias químicas usadas en las lavanderías y cuál es el efecto de estas sustancias en los individuos? (HSDB, TOXLINE)
3. ¿Cuáles son los pesticidas que se han encontrado en la leche materna? ¿Cuáles son los efectos a la salud de estos pesticidas? (HSDB, TOXLINE)
4. Encuentre citas acerca de los efectos que los pesticidas tienen a la salud de los granjeros centroamericanos. (TOXLINE)

5. Intente su propia búsqueda

Sugerencias:

Encuentre información acerca de niveles de **PCB** en los niños.

Find the acceptable daily intakes and drinking water standards for lead.



**HSDB, IRIS, ITER**  
**Suggested Solutions**  
**<http://toxnet.nlm.nih.gov>**

There is no need to write down or print answers to questions. Please perform the search to find and display the information requested to ensure that you have correctly followed the search process.

1. Does *nitrobenzene* have any effect on sperm?

Help:

Go to **<http://toxnet.nlm.nih.gov>** in your Web browser  
Type **nitrobenzene sperm** in the search all databases box  
Click the **Search** button  
Click the **hyperlinked** number next to **HSDB**  
Click **NITROBENZENE**  
Review the Best Sections in the right frame

2. What are some chemicals used in dry cleaning and what are their human health effects?

Help:

Type **“dry cleaning”** in the searchall databases box  
Click the **Search** button  
Click the **hyperlinked** number next to **HSDB**  
Click the first record  
Review the information in the right frame  
Click **Human Health Effects** in the Contents frame on the left  
Review the information that appears in the right frame  
Click the **Next Item** button at the top of the screen to review information on other chemicals  
Click the back button until you return the the Search all Database results page  
Click **Show Me** next to Haz-Map to find out more about occupational exposure to dry cleaning agents

3. What pesticides have been found in breast milk (in HSDB)? What are the human health effects of these pesticides?

Help:

Click the **HSDB** button on the left sidebar  
Type **pesticide breast milk** in the search box

- Click the **Search** button
- Click the first record
- Review the Best Section information in the right frame
- Click **Human Health Effects** in the Contents frame on the left
- Review the information that appears in the right frame
- Click the **Basic Search** button at the top of the screen to prepare for the next search

4. The Durez Corporation in Niagara Falls, New York uses the chemical *xylene*. What information is available regarding the non-carcinogenic risk assessment of this chemical?

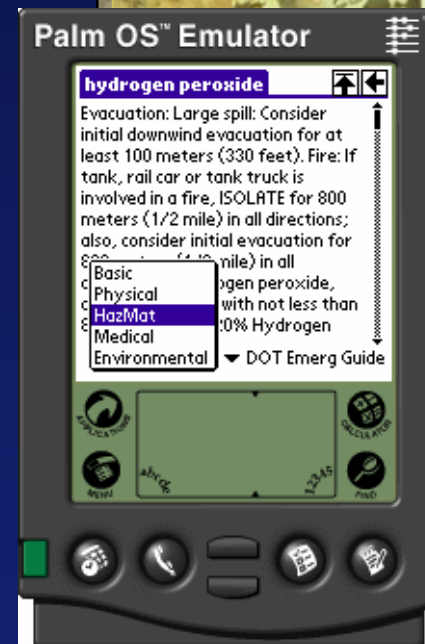
Keyboard Help:

- Go to **<http://toxnet.nlm.nih.gov>** in your Web browser
- Type *xylene* in the Search all databases box
- Click the **Search** button
- Click the hyperlinked number next to IRIS
- Click the Chronic Health Hazard link in the Contents frame on the left
- Review the information in the right frame
- Click the Other Files button on the top fram
- Click the link to the ITER record
- Review the noncancer oral and noncancer inhalation data on the right (click on the hyperlinks in the table for more information)
- Click the + sign next to Manufacturing/Use Information to expand the category
- Click the **Basic Search** button at the top of the screen to prepare for the next search

# WISER

## Wireless Information System for Emergency Responders

- Information tailored for emergency responders
- Assist in identifying unknown substances
- Emergency treatment and containment information
- Stand-alone with enhanced connected (wireless) capabilities



The image displays a series of overlapping screenshots from the WISER (Web-based Identification System for Emergency Responders) application, running on a Palm OS simulator. The interface is designed for identifying unknown substances based on user-provided symptoms.

- WISER 1st Responder:** The main application window with a search filter set to "Name".
- Identify Substance:** A screen where the user selects a "State" (solid, liquid, gas) and "Symptoms".
- Properties:** A screen showing "Selected:" properties such as "liquid", "colorless", and "alcohol-lik".
- Symptoms:** A screen showing "Selected:" symptoms including "agitation 18", "lowered mental", "unresponsive 4", "drowsiness 3", "fatigue/weak", "dizziness 8", "headache 15", "slurred speech", "numbness/tin", and "lack of coordin".
- Neurological:** A screen showing "Selected:" symptoms such as "dizziness", "headache", "irritation", and "nausea".
- Symptoms:** A final screen showing "Selected:" symptoms and a "Temp" (Temperature) scale from 0 to 300, with a "Skin" diagram.

Each screen includes a "Results" button and a progress indicator (e.g., 31/390, 25/390, 7/390). The application also features a bottom navigation bar with "APPLICATIONS" and "MENU" icons.



# NLM Environmental Health Listservs

## What's new from NLM's Environmental Health and Toxicology Program

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## Environmental Health and Toxicology SIS Specialized Information Services



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### NLM-Tox-Enviro-Health-L Announcements List

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#### More to Explore

[Archives of NLM-TOX-ENVIRO-HEALTH-L@LIST.NIH.GOV](#)

[MedlinePlus Environmental Health News e-mail Announcement List](#)

#### List Description

NLM-Tox-Enviro-Health-L is an email announcement list available from the National Library of Medicine (NLM)'s Division of Specialized Information Services (SIS). The purpose of the announcement list is to broadcast updates on SIS's resources, services, and outreach in toxicology and environmental health. The [NLM-Tox-Enviro-Health-L Archives](#) allow users to search list postings, and to modify subscription options.

#### Join NLM-Tox-Enviro-Health-L

To **subscribe** to the NLM-Tox-Enviro-Health-L announcement list, please send the following text in the body of an email to [listserv@list.nih.gov](mailto:listserv@list.nih.gov)

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