

VII. Household Products Database

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



This database links over 4,000 consumer brands to health effects from Material Safety Data Sheets (MSDS) provided by the manufacturers. The database is designed to help answer the following typical questions:

- What are the chemical ingredients and their percentage in specific brands?
- Which products contain specific chemical ingredients?
- Who manufactures a specific brand? How do I contact this manufacturer?
- What are the acute and chronic effects of chemical ingredients in a specific brand?
- What other information is available about chemicals in the toxicology-related databases of the National Library of Medicine?

What is a Material Safety Data Sheet (MSDS)?

A Material Safety Data Sheet (MSDS) is designed to provide both workers and emergency personnel with the proper procedures for handling or working with a particular substance. MSDS's include information such as toxicity, health effects, first aid, reactivity, storage, disposal, protective equipment, and spill/leak procedures. These are of particular use if a spill or other accident occurs.

The Household Products Database is a resource that uses MSDS information in a way that is helpful for consumer questions.

Searching Household Products Database

HPD categorizes its site into three main categories: Products, Ingredients, and MSDS.

- Products are subdivided into three categories: Brand Name, Type of Product, and Manufacturer.
- Ingredients can be searched by chemical name or by CAS Registry Number (the Chemical Abstracts Service assigns numbers to substances in its database). A CAS Registry Number is unique and specific to only one substance regardless of how many other ways the substance can be described.
- MSDS is actually a search by health effects of products.

Quick Search

From the Home page, you can type a keyword into the box and click “quick search.” You can put in any information you want to search, for example “Lysol,” “garage” or “vomiting.”

The search results will be displayed as a list of brand names, in the following categories:

- Ingredient
- Product (brand name or type)
- Manufacturer
- Health Effects

The screenshot shows the top navigation bar with buttons for Home, Products, Ingredients, and MSDS. Below the navigation bar is a search box with the text "Quick Search: garage" and a "Go" button. The search results are displayed in a box with the following content:

Search Results

0 record(s) found searching *garage* as Ingredient

5 record(s) found searching *garage* as Product (brand name or type of product)

- [Behr 1-Part Epoxy Acrylic Concrete & Garage Floor Paint, No. 910 Clear](#)
- [Behr 1-Part Epoxy Acrylic Concrete & Garage Floor Paint, No. 930 Deep Base](#)
- [Behr 1-Pt Epoxy Acrylic Garage Floor Paint, No. 930 Deep Base-03/11/2002](#)
- [Garage Magic](#)
- [Red Devil Garage and Driveway Cleaner](#)

0 record(s) found searching *garage* as Manufacturer

0 record(s) found searching *garage* in the Health Effects fields

Products Search

Browse by Categories

Clicking on the Products tab will bring up the “Browse by Categories” part of the products search. You can use this page to browse seven categories.



Clicking on a category will get you a more detailed list of product categories.



Once you select the category you would like to see, you will get a “type” of category to choose from.



Then, once you select the type, you get a list of products to choose from.



Browse Alphabetically

By clicking on the “Browse Alphabetically” link in the blue bar, you can search a list of product names.

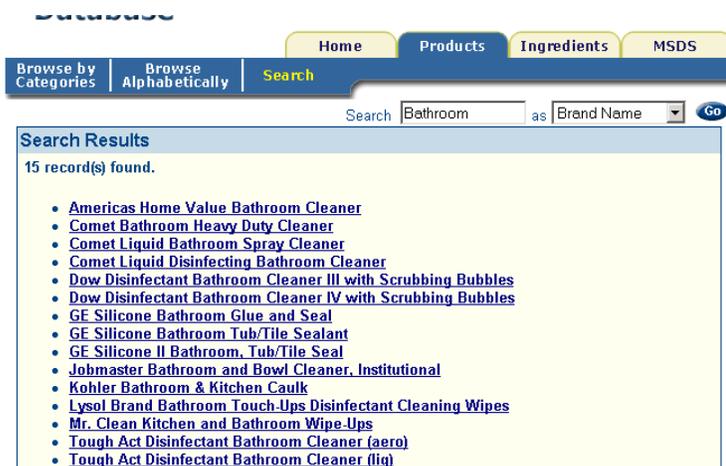
Search

When you click on the “Search” link in the blue bar, you get a variety of options.



- Keyword search by Band Name, Type of Product or Manufacturer
- Click on a list of Manufacturers to browse
- Click on a list of Types of Product to browse.

Each option will bring up a list to select from that will take you to specific products.



Ingredients Search

Clicking on the Ingredients tab will bring you to a simple search with one box. You may type whatever you know about the ingredient in that box.

Database

Home Products **Ingredients** MSDS

Browse Alphabetically Search

Search Ingredients by Chemical or CAS Registry Number

Enter a chemical name or CAS Registry Number

ALOE Search Clear

This search will bring up the ingredient from the Chemical Ingredients Table whether it appears as the primary record or in another record.

Database

Home Products **Ingredients** MSDS

Browse Alphabetically Search

Search aloe as Ingredient Go

Search Results

Search results: Primary record found in Chemical Ingredients table.

- [Aloe extract](#)

Search results: 2 other record(s) found in Chemical Ingredients table.

- [Aloe extract](#)
- [Aloe barbadensis/vera extract/gel](#)

Note: Brand names are trademarks of their respective holders.
Information is extracted from Consumer Product Information Database ©2001 by DeLima Associates. All rights reserved.

Selecting one will bring up a list of products that contain that ingredient, chemical information, and links to that chemical in TOXNET and ChemIDplus.

Database

Home Products **Ingredients** MSDS

Browse Alphabetically Search

Search aloe as Ingredient Go

Chemical Information

Chemical Name: **Aloe extract**
 CAS Registry Number: 008001-97-6
 Synonyms: Aloe extract; Aloe; Aloe vera; Aloe, pharmaceutical
 Health Studies: ***No information available in HSDB at this time***
 Toxicity Information: [Search TOXNET](#)
 Chemical Information: [Search ChemIDplus](#)

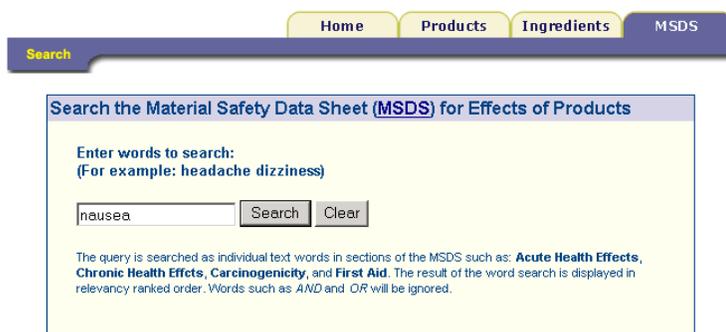
Products that contain this ingredient

Brand	Category	Form	Percent
Oil Of Olay Refreshing Toner	Personal care/use	liquid	
GOJO Natural Orange Pumice Hand Cleaner	Personal care/use	pump spray	<1
Bath & Body Instant AntiBacterial Hand Gel - Freesia	Personal care/use	liquid	
Bath & Body Works Shower Gel - Flamingo Harb	Personal care/use	liquid	

You can also browse ingredients alphabetically (link is in the green bar)

MSDS (Health Effects) Search

From the MSDS tab, type in a possible health effect.



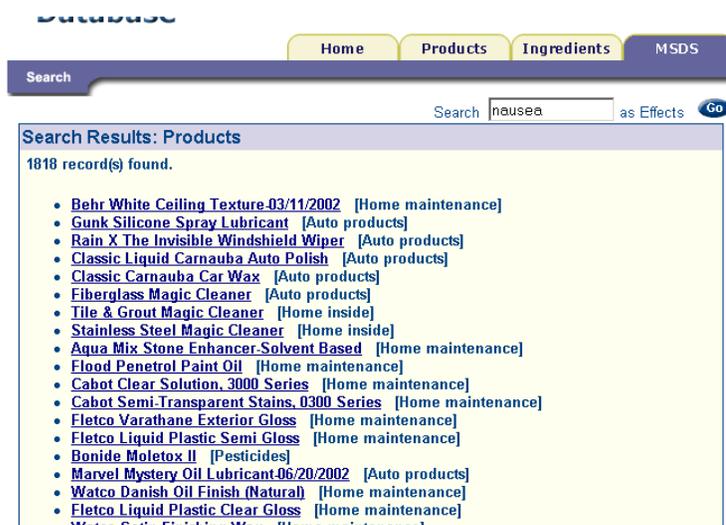
Search the Material Safety Data Sheet (MSDS) for Effects of Products

Enter words to search:
(For example: headache dizziness)

nausea Search Clear

The query is searched as individual text words in sections of the MSDS such as: **Acute Health Effects**, **Chronic Health Effects**, **Carcinogenicity**, and **First Aid**. The result of the word search is displayed in relevancy ranked order. Words such as *AND* and *OR* will be ignored.

The result will give you a list of every product with that effect in its MSDS record.



Search Results: Products

1818 record(s) found.

- [Behr White Ceiling Texture 03/11/2002](#) [Home maintenance]
- [Gunk Silicone Spray Lubricant](#) [Auto products]
- [Rain X The Invisible Windshield Wiper](#) [Auto products]
- [Classic Liquid Carnauba Auto Polish](#) [Auto products]
- [Classic Carnauba Car Wax](#) [Auto products]
- [Fiberglass Magic Cleaner](#) [Auto products]
- [Tile & Grout Magic Cleaner](#) [Home inside]
- [Stainless Steel Magic Cleaner](#) [Home inside]
- [Aqua Mix Stone Enhancer-Solvent Based](#) [Home maintenance]
- [Flood Penetrol Paint Oil](#) [Home maintenance]
- [Cabot Clear Solution_3000 Series](#) [Home maintenance]
- [Cabot Semi-Transparent Stains_0300 Series](#) [Home maintenance]
- [Fletco Varathane Exterior Gloss](#) [Home maintenance]
- [Fletco Liquid Plastic Semi Gloss](#) [Home maintenance]
- [Bonide Moletox II](#) [Pesticides]
- [Marvel Mystery Oil Lubricant-06/20/2002](#) [Auto products]
- [Watco Danish Oil Finish \(Natural\)](#) [Home maintenance]
- [Fletco Liquid Plastic Clear Gloss](#) [Home maintenance]
- [Watco Satin Finishing Wax](#) [Home maintenance]

Search Results

- Manufacturer information
- Customer service phone number

The screenshot shows a web interface for the Household Products Database. At the top, there are navigation tabs for 'Home', 'Products', 'Ingredients', and 'MSDS'. Below these are search options: 'Browse by Categories', 'Browse Alphabetically', and 'Search'. A search bar contains the text 'Search' and 'as Effects' with a 'Go' button. The main content area is divided into two sections: 'Brand Information' and 'Manufacturer'. The 'Brand Information' section lists details for 'Comet Cleanser with Chlorinol', including EPA Reg No: 3573-51, Form: powder, Product Category: Home inside, Purpose: Kitchen, Type: cleaner, antibacterial, Customer Service No.: 800-262-1637, Date Entered: 1996-08-21, and a link to 'Products with similar usage in this database'. The 'Manufacturer' section lists 'Procter & Gamble Co.' with address, city (Cincinnati), state (OH), zip code (45201), telephone number (513-983-1100), fax number (513-562-4500), toll free number (800-543-7270), date info verified (2003-01-01), and a link to 'Products by this manufacturer'.

- Warning from label
- Acute and Chronic health effects
- Carcinogenicity

The screenshot shows the 'Health Effects' section of the product page. It includes a 'Search TOXNET' button. The 'Warning from Label' section states: 'Keep out of reach of children. May cause eye irritation. In case of contact, flush thoroughly with water. If irritation persists, see a physician. If swallowed, drink a glass of water to dilute.' The 'Acute Health Effects' section is titled 'From MSDS' and describes inhalation, eye contact, skin contact, and ingestion hazards. The 'Chronic Health Effects' section notes that the product contains crystalline silica (quartz) and that prolonged exposure may reduce lung function. The 'Carcinogenicity' section states that IARC has classified crystalline silica as a carcinogen in animals. Below these are 'Health Rating: N', 'Flammability Rating: N', and 'Reactivity Rating: N'. A legend for 'HMIS Rating Scale' defines 0 as Minimal, 1 as Slight, 2 as Moderate, 3 as Serious, 4 as Severe, N as No information provided by manufacturer, and * as Chronic Health Hazard. The 'MSDS Date' is listed as 1995-08-01.

- Handling and disposal
- Chemicals

Handling/Disposal		
Handling:	MSDS: Avoid moisture to prevent loss of bleaching/germicidal action and to prevent caking.	
Disposal:	MSDS: Product contains biodegradable surfactants. If permitted, flush down sewer drain with large excess of water or dispose of at landfill. Disposal is to be performed in compliance with all regulations.	

Ingredients from MSDS/Label		
Chemical	CAS No / Unique ID	Percent
Calcium carbonate	001317-65-3	83.8
Sodium carbonate	000497-19-8	
Fragrance/perfume(s)	000000-00-1	
Silica (Quartz)	014808-60-7	< or = 1
Sodium dichloroisocyanurate dihydrate	051580-86-0	0.9
Colorant/Pigment(s)	999999-49-3	
Quality control agent(s)	999999-49-8	

And clicking on the chemicals takes you to a list of other products with that chemical.

Browse Alphabetically		Search	
Home	Products	Ingredients	MSDS

Chemical Information			
Chemical Name:	Silica (Quartz)		
CAS Registry Number:	014808-60-7		
Synonyms:	Silica (Quartz); Silica, crystalline; Quartz (SiO ₂); Silica, crystalline - quartz		
Health Studies:	***No information available in HSDB at this time***		
Toxicity Information:	Search TOXNET		
Chemical Information:	Search ChemIDplus		

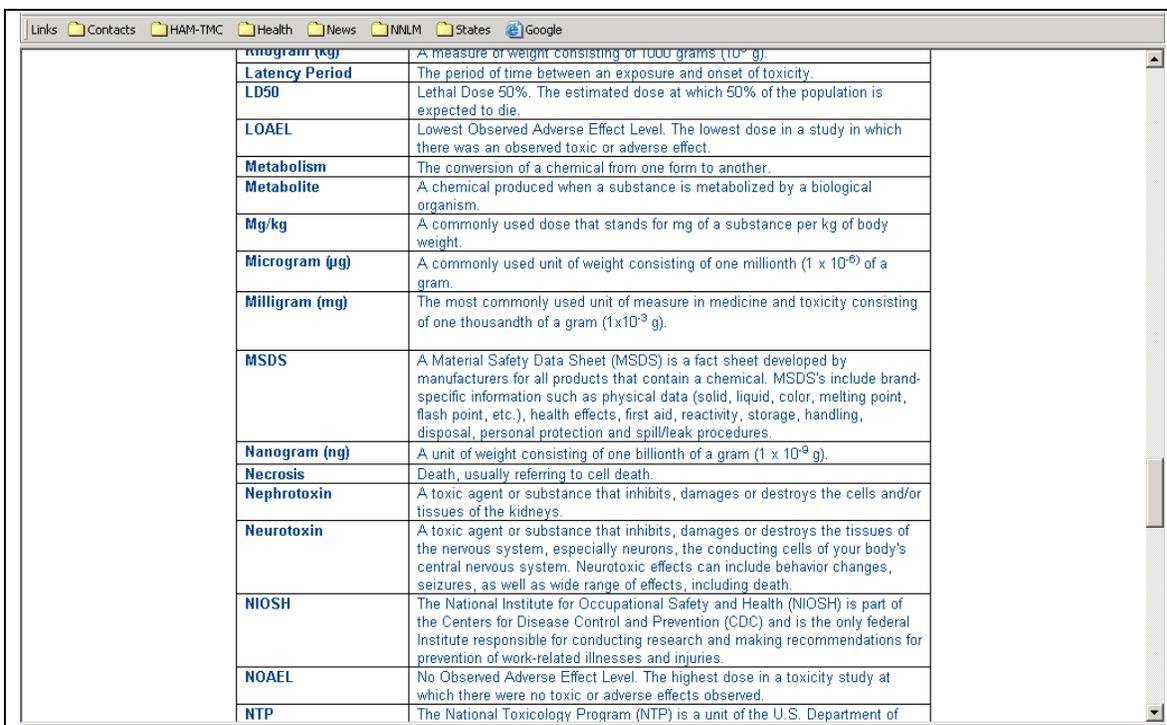
Products that contain this ingredient			
Brand	Category	Form	Percent
Permatex Trounce Cream Pumice Hand Cleaner	Auto products	cream	0.1-1
Duncan Crystallone Glazes	Hobby/Craft	liquid	<8
Duncan Antique Glaze	Hobby/Craft	liquid	<8
Duncan GO 100 Series Opaque Glazes	Hobby/Craft	liquid	<8
Duncan Art Glazes	Hobby/Craft	liquid	<8
Wrights Antitamish Silver Polish	Home inside	liquid	
Scoop Away Clean Fresh Scent Clumping Cat Litter	Home inside	granules	<10
Cameo Aluminum & Stainless Steel Cleaner	Home inside	powder	

Glossary

At the bottom of the screen is a list of helpful links. One of them is a glossary.



The glossary is an alphabetized helpful list of words used in this website.



Practice Exercises

1. I've been feeling sick a lot lately. I'm an artist and I use turpentine regularly to clean my brushes. I paint in my garage. Is it possible that turpentine could be why I'm getting sick? Is there something I should be doing so I don't breathe so much of it?
2. I'm doing a science project on which floor cleaner works better with different messes. Can you tell me what ingredients are in the different floor cleaners? And can you tell me where to find something on the ingredients?
3. I'm looking for an ant killer that doesn't contain diazinon. Can you help me?