



Finnish Institute of
Occupational Health

IMG0190.JPG - Windows Picture and Fax Viewer



New Toxicology Information Sources and Searching Techniques



Irja Laamanen
2006



About toxicology

- Toxicology is among the most multidisciplinary of sciences.
- Toxicology combines the knowledge base and approaches of physiology, pharmacology, psychology, biochemistry and molecular biology to address fundamental questions regarding the mechanistic effects of chemicals on living organisms.
- Toxicology is said to be a borrowing science

About toxicology

- In Ulrich 's International Periodicals Directory (1999) was found 236 active periodicals related to toxicology. Of them 177 were commercial, 21 from a society and 38 other (governmental agency etc.)
- Ulrich 's is the world's premier **periodicals** reference source
- The number of Web sites, where you can find information on toxicology, is growing all the time
- [Guide to Chemical, Pesticide and Toxicology Websites](#)
- [Risk toxicology sites](#) (18 sites /sources)
- [MSDSs](#) (100 free sites)
- [Chemical exposure limits](#) (ILO)

collection of some of the best Internet science sites with a focus on the topics of chemicals, pesticides, and toxicology

NEW: E-books by Elsevier

Internet has increased free access to toxicological information, but everything is not in the Internet. Internet service provider problems can occur, making websites unavailable for variable periods of time. In such case, use of alternative source of information will be necessary.

A broader perspective

Authoritative content
Fully linked with journals
Complete the picture in your subject area

www.sciencedirect.com

2 Agenda

- Benefits of E-books
- Content Quality Reviews
- New Licensing Model
- Major Reference Works
- Book Series
- Handbooks
- Summary
- Q&A

3 A broader perspective on ScienceDirect

- Users get a broad and deep perspective, all from one single, easy-to-use interface linking quickly and easily to and from:
 - book content
 - journal articles
 - reference work entries
 - other publishers' platforms via CrossRef

4 Books Available on

Slide 1 of 37

1_Blank

English (U.K.)

Start I... B... P... T... E... S... T... El... A... Bi... W... B... 16:24

Practical questions of toxic agents and answering them : Question one

- “A bricklayer has allergic contact dermatitis. He is using cement, one component of it is chromium.
- Could cement with chromium be the cause of his dermatitis and if it is, how could he prevent contact with it? What kind of prevention measures is there needed?”

Analysis of the question

- What kind of substances are cement and chromium?
- Where is more information about allergic contact dermatitis?
- Exposure routes?
- Is there evidence based on research with animals or humans that cement / chromium is causing contact dermatitis?
- What controls are recommended to prevent exposure?

Dictionaries are good starting points

- basic information on cement and chromium

The screenshot shows a Microsoft Internet Explorer browser window displaying the Taylor & Francis Online website. The address bar shows the URL: http://www.crcpress.com/shopping_cart/products/product_detail.asp?sku=L1590&parent_id=8pc=. The website header includes the Taylor & Francis logo and the text "Essential Information for the Scientific, Technical, and Medical Communities". The navigation menu includes "HOME", "MY ACCOUNT", "SHOPPING CART", "BROCHURES", and "SHIPPING REGION".

The main content area is titled "Description" and features the following information:

Illustrated Dictionary and Resource Directory of Environmental and Occupational Health, Second Edition

Herman Koren *Professor Emeritus, Indiana State University, Terre Haute, I*

List Price: \$159.95
Cat. #: L1590
ISBN: 1566705908
Publication Date: 5/10/2004
Number of Pages: 712
Availability: In Stock

The book cover is displayed on the left, showing the title "ENVIRONMENTAL & OCCUPATIONAL HEALTH" and the author's name "Herman Koren". The CRC Press logo is also visible.

An "Add To Cart" button is located below the book cover.

On the right side of the page, there is a list of bullet points describing the book's features:

- Defines more than 16,000 terms, supplemented with hundreds of additional synonyms, acronyms, and abbreviations that are alphabetized and cross-referenced
- Presents more than 1,000 detailed illustrations produced by the leading graphic artist in the field to help the reader visualize the concepts
- Emphasizes the combination of supporting sciences for developing useful applications
- Lists hundreds of resources such as government agencies, professional and industrial organizations, and abstract services
- Provides medical terminology to better understand symptoms of environmental exposure
- Provides up-to-date, relevant terminology pertaining to computer science and environmental law. Includes coverage of major environmental subject areas including:
- Chemical, biological, and physical hazards

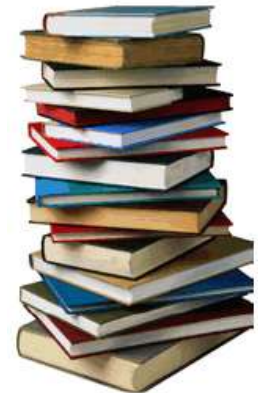
The left sidebar contains "My Settings" (Manage My Account, View Shopping Cart, Feedback, Shipping & Region Settings, Add me to your mailing list) and "Subjects" (New Books, Biomedical Science, Business & Management, Chemical Engineering, Chemistry, Computer Science, Engineering, Environmental Science, Ergonomics & Human Factors, Food Science, Forensics & Criminal Justice, Healthcare, Information Technology).

Illustrated dictionary and resource directory of Environmental & Occupational Health

- What is written about cement and chromium?
- A substance made of limestone and clay that, when mixed with water sets to hard mass; used as an ingredient in concrete.
- about the chromium (Cr) – a metallic element with oxidation state ranging from chromium II (unstable) to chromium VI.
- Chromium VI is the naturally occurring element found in rocks, animals, plants, soil, volcanic dust and gases; no known taste or odour.
- It is used in miscellaneous industries.....
- Acute systemic and dermal allergic reactions have been observed in chromium sensitive individuals even OSHA exposure limits are mentioned - the first answers found!

Using a special handbook

- Is there more complete general information about the subject in the handbooks?
- **Textbook of clinical occupational and environmental medicine**
- / Linda Rosenstock ...(ed.)
2. p., Philadelphia, PA : Elsevier/Saunders, 2005. - 1338 s.
ISBN 0-7216-8974-4
- an overview, not too old, also something about preventive measures



Start from the index and find : chromium + allergic contact dermatitis

The screenshot shows a Microsoft Internet Explorer browser window displaying the Elsevier website. The address bar shows the URL: http://www.elsevier.com/wps/find/bookdescription.cws_home/703491/description#description. The page features the Elsevier logo and the tagline "Building Insights. Breaking Boundaries." The main content area is titled "TEXTBOOK OF CLINICAL OCCUPATIONAL AND ENVIRONMENTAL MEDICINE" and includes a description, author information, and a "Description" section. A sidebar on the left contains navigation links such as "Products", "Textbook of Clinical Occupational and Environmental Medicine", "Book information", "Product description", "Audience", "Author information and services", "Ordering information", "Bibliographic and ordering information", "Book related information", "Submit your book proposal", "Other books in same subject area", "Support & contact", "About Elsevier", and "Select your view". A right sidebar contains "Book contents", "Table of contents", "Reviews", "Submit your review", "Free e-mail alerting services", "Bookmark this page", "Recommend this publication", and "Overview of all books". The bottom of the browser window shows the taskbar with various applications open, including Microsoft Outlook, Bricklayer.ppt, and PrettyLib-kirjastojärjest... The system clock shows 14:19.

TEXTBOOK OF CLINICAL OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

To order this title, and for more information, click [here](#)
Second Edition

By
Linda Rosenstock, MD, MPH, Dean, School of Public Health, Professor of Medicine and Environmental Health Sciences, University of California, Los Angeles, Los Angeles, CA, USA
Mark Cullen, MD, Professor of Medicine and Public Health Director, Occupational and Environmental Medicine Program, Yale University School of Medicine, New Haven, CT, USA
Carl Brodtkin, MD, MPH, Clinical Associate Professor of Medicine and Environmental and Occupational Health Sciences, University of Washington, Seattle, WA, USA
Carrie Redlich, MD, MPH, Professor of Medicine, Occupational and Environmental Medicine Program and Pulmonary Critical Care Section, Yale University School of Medicine, New Haven, CT, USA

Description
Comprehensive and meticulously updated throughout, this new edition makes it easy to detect, diagnose, and treat the full spectrum of problems caused by occupational or environmental factors, including physical, chemical, and biologic agents. An international cast of experts offers in-depth, authoritative guidance on clinical problems as well as the legal and regulatory issues impacting the practice of occupational and environmental medicine today. And, a user-friendly chapter layout and organization makes reference a snap.

Audience
Occupational Medicine, Pulmonary Medicine, Corporate Lawyers, Environmental Health and Safety Professionals

Contents

Section 1: Principles and Practice

You find more information on cement and hexavalent chromium compounds

Search articles from your local journals

- **Authors (personal): Velasco Ortega J., Martín Egurza M.**
- Title: Evaluation of hygiene risks in quarries and cement plants: General aspects (I)
- Descriptive phrase: Evaluation of the health hazards due to chemicals in quarries and cement plants
- Other language title(s): ES: Evaluación del riesgo higiénico en canteras y cementeras: aspectos generales (I).
- Serial title: **Prevención** (ISSN 0034-8732), July-Sep. 2002, No.161, p.8-22. Illus. 8 ref.

- **Authors (personal): Brasseur G.**
- Title: Occupational skin diseases: Cement still causes victims
- Descriptive phrase: Special feature on occupational skin diseases caused by cement
- Other language title(s): FR: Dermatoses professionnelles: le ciment fait toujours des victimes.
- Serial title: **Travail et sécurité** (ISSN 0373-1944), July-Aug. 2001, No.609, p.22-28. Illus. 6 réf.

Search international journals: either electronic or on paper

EBSCOhost Electronic Journals Service - Microsoft Internet Explorer provided by Työterveyslaitos

Address: <http://ejournals.ebsco.com/Journal2.asp?JournalID=105390>

Electronic Journals Service

Home Browse Journals Find Journals Find Articles Marked Items Logout

journal home Need Help?

Contact Dermatitis

Publisher: Blackwell Publishing Ltd ([All journals by publisher](#)) [Mark](#)
ISSN: 0105-1873 (Paper)

Access Details Search Within Journal

Your Access: ✓ 2005 to present

Available on Publisher's Site:
[2000 - 2006](#)

Available on EJS:

- ✓ [Volume 54 \(2006\)](#)
 - ✓ [Volume 54, Number 5 \(May 2006\)](#) pp. 233 - 302
 - ✓ [Volume 54, Number 4 \(April 2006\)](#) pp. 181 - 232
 - ✓ [Volume 54, Number 3 \(March 2006\)](#) pp. 131 - 179
 - ✓ [Volume 54, Number 2 \(February 2006\)](#) pp. 73 - 130
 - ✓ [Volume 54, Number 1 \(January 2006\)](#) pp. 1 - 71
- ✓ [Volume 53 \(2005\)](#)
- ✓ [Volume 52 \(2005\)](#)
- ✓ [Volume 51 \(2004\)](#)

Articles from international journals

- **Cement burns: a review 1960-2000.**
Spoo J. and Elsner P.
Contact Dermatitis 2001 45:2 (68-71)
- **Occupational skin disease in the construction industry**
Bock M., Schmidt A., Bruckner T. and Diepgen T.L.
British Journal of Dermatology 2003 149:6 (1165-1171) .

Free of charge journals: <http://www.biomedcentral.com> Journal of Occupational Medicine and Toxicology

BioMed Central | journals A-Z - Microsoft Internet Explorer provided by Työterveyslaitos

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ABCDEFGHIJKLMNOPQRSTUVWXYZ

A Acta Veterinaria Scandinavica [now accepting submissions](#)
AIDS Research and Therapy *all content Open Access*
Algorithms for Molecular Biology *all content Open Access*
Annals of Clinical Microbiology and Antimicrobials *all content Open Access*
Annals of General Psychiatry *all content Open Access*
Annals of Surgical Innovation and Research [now accepting submissions](#)
Arthritis Research & Therapy *all research articles Open Access; subscription required for other content; free trial available*
Australia and New Zealand Health Policy *all content Open Access*

B Behavioral and Brain Functions *all content Open Access*
Beilstein Journal of Organic Chemistry *all content Open Access*
Biology Direct *all content Open Access*
BioMagnetic Research and Technology *all content Open Access*
Biomedical Digital Libraries *all content Open Access*
BioMedical Engineering OnLine *all content Open Access*
BMC series

Register now

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Submit Now!

Internet

Start Cal... Bric... Pret... Pret... EMB... Sun... TTL... Elek... Ado... Bio... 16:06

Search from all BioMedCentral journals

BioMed Central | Search results construction in all fields ... - Microsoft Internet Explorer provided by Työterveyslaitos

File Edit View Favorites Tools Help

Address <http://www.biomedcentral.com/search/results.asp?drpField1=8&txtSearch1=construction&drpPhrase1=and&drpField2=%5BTI%5D&txtSearch2=dermatitis&drpPhrase2=ar> Go Links >>

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You searched for: **construction** in *all fields*, and **dermatitis** in *title*

1 research article found

Refine this search > Edit the boolean for this search > Store this search >

Display > printer friendly 20 per page no abstract any time period by date

Send > this page to Endnote (no abstracts) [Help]

Page 1 of 1. Select Page: 1

1. **Research article** [Open Access](#) **Highly accessed**

Contact dermatitis and other skin conditions in instrumental musicians
Gambichler T, Boms S, Freitag M
BMC Dermatology 2004, 4:3 (16 April 2004)
[Abstract] [Full text] [PDF] [PubMed] [Related articles]

Page 1 of 1. Select Page: 1

Display > printer friendly 20 per page no abstract any time period by date

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Start Cal... Bric... Pret... Pret... EMB... Sun... TTL... Elek... Ado... Bio... 16:16

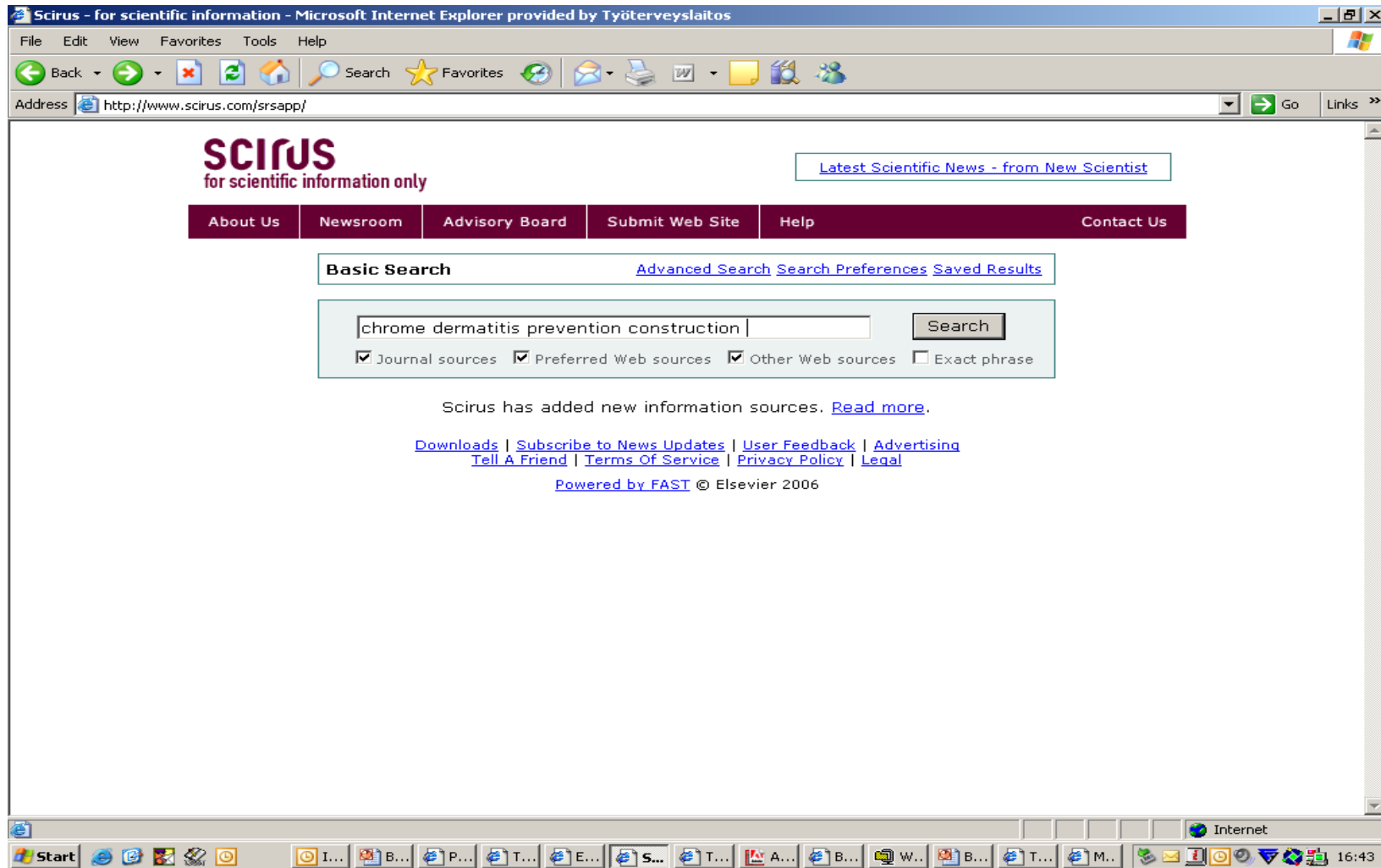
Other free journals or free abstracts of Journals and a collection of free journals

- [Arbete och Hälsa](#)
- [Annals of Occupational Hygiene](#)
- [Toxicological Sciences](#)
- [Occupational Medicine](#)
- [Occupational and Environmental Medicine](#)
- [Scandinavian Journal of Work Environment & Health](#)

- [DOAJ - Directory of Open Access Journals](#)

Scirus : scientific search engine – free

<http://www.scirus.com/srsapp/>



Scirus: quickly results and suggestion for search terms =>did you mean: "chromate dermatitis" prevention construction

chrome dermatitis prevention construction results on scirus.com, for scientific information - Microsoft Internet Explorer provi

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Address <http://www.scirus.com/srsapp/search?q=chrome+dermatitis+prevention+construction+&ds=jnl&ds=nom&ds=web&g=s&t=all> Go Links >>

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Basic Search [Advanced Search](#) [Search Preferences](#) [Saved Results](#)

Journal sources Preferred Web sources Other Web sources Exact phrase

Searched for:	All of the words chrome AND dermatitis AND prevention AND construction
Found:	364 total 17 journal results 16 preferred web results 331 other web results
Sort by:	relevance date

[Save checked results](#) [Email checked results](#) [Export checked results](#)

- [1. The current situation concerning occupational skin diseases](#)
Crepy, M.N., *Revue Francaise d'Allergologie et d'Immunologie Clinique*, Mar 2003
...l'allergie au **chrome** hexavalent...secteur de la **construction**. En revanche...mesures de **prevention** mises en...et de la **construction** en particulier...allergic contact **dermatitis** and/or irritant...hexavalent **chrome** has decreased...Methacrylates Latex **Prevention**
Occupational...dermatoses Contact **dermatitis** Eczema Hairdressers **Chrome** Biocides...
Published journal article available from **SCIENCE @ DIRECT**
[view all 17 results from ScienceDirect](#)
[similar results](#)
- [2. The prevalence of occupational dermatitis amongst printers in the midlands \[PDF-123K\]](#)
May 2003
...under COSHH on the **prevention** of occupational **dermatitis**." However, the true...the prevalence of **dermatitis** has been identified...cleaning (38%), **construction** (17%), vehicle maintenance...risk industry for **dermatitis** (Cronin, 1980...

Did you mean?
["chromate dermatitis" prevention construction](#)

Refine your search using these keywords found in the results:
[action level](#)
[chromate](#)
[contact dermatitis](#)
[corrosion control](#)
[drink water](#)
[engineering controls](#)
[first aid](#)
[flammable](#)

Start Internet 16:40

Search in Google: chrome VI construction control prevention protection

The screenshot shows a Microsoft Internet Explorer browser window with the following details:

- Title Bar:** chrome VI construction control prevention protection - Google-haku - Microsoft Internet Explorer provided by Työterveyslaitos
- Address Bar:** http://www.google.fi/search?hl=fi&q=chrome+VI+construction+control+prevention+protection&btnG=Hae&meta=
- Search Results:**
 - Web** Kuvat Keskusteluryhmät Hakemisto
 - Search input: chrome VI construction control prevention protec
 - Buttons: Hae, Tarkennettu haku, Asetukset
 - Filters: Haku: kaikilta web-sivuilta suomenkielisiltä sivuilta sivuja maasta: Suomi
 - Summary: Tulokset 1 - 10 noin 87 700 osuman joukosta haulle **chrome VI construction control prevention protection.** (0,40 sekuntia)
 - Link: Kirjautu sisään
 - Tip: **Vihje:** Etsi tuloksia vain kielellä suomi. Voit määritellä hakukielen kohdasta [Asetukset](#)
 - Result 1: [Page 1 Pacific Maritime Association Accident Prevention Department ...](#)
Tiedostomuoto: PDF/Adobe Acrobat - [HTML-versio](#)
as Cr(VI). The final rule also contains ancillary provisions for worker **protection** such as requirements for exposure determination, preferred exposure ...
[www.pmanet.org/pubs/safety/01-06-Hexavalent-Chromium.pdf](#) - [Samankaltaisia sivuja](#)
 - Result 2: [Työterveyslaitos](#)
Priha E, Ahonen I, Oksa P: **Control** of chemical risks in the treatment of soil contaminated with chlorophenol, creosote and copper-**chrome**-arsenic wood ...
[www.ttl.fi/Internet/Suomi/Aihesivut/Rakennusterveys/Tiedonlahteet/ - 64k -](#)
[Välimuistissa](#) - [Samankaltaisia sivuja](#)
 - Result 3: [Chromium six](#)
(chromium six, chromium-**VI**, Cr-**VI**, Cr-6 - eg, chromates, chromic acid) ... Hard **chrome** plating without adequate **control** measures can lead to exposure ...
[www.dhs.ca.gov/ohb/HESIS/cr6.htm - 20k -](#) [Välimuistissa](#) - [Samankaltaisia sivuja](#)
 - Result 4: [CONTENT](#)
Tiedostomuoto: PDF/Adobe Acrobat - [HTML-versio](#)
Chrome VI (Cr). Germany. All types. 3 ppm. Formaldehyde. South Korea Japan,. All types ...
Instruction on **control** and **prevention** of pollution. (CAC, 1996) ...
[r0.unctad.org/trade_enw/test1/meetings/bangkok5/vietnam.pdf -](#) [Samankaltaisia sivuja](#)
 - Result 5: [Air Resource Management - Clean Air Act](#)
Title I - Air Pollution **Prevention** & **Control**; Title II - Emission Standards for Moving Sources ... Title **VI** - Stratospheric Ozone **Protection** ...
[www.afcee.brooks.af.mil/products/air/caa.asp - 39k -](#) [Välimuistissa](#) - [Samankaltaisia sivuja](#)

The taskbar at the bottom shows the Start button, several open Internet Explorer windows (Inbo..., BTS ..., TTL I..., MOT ..., TTL I..., Micro..., TTL I..., MOT ...), and the chrome... window. The system tray shows the Internet icon and the time 10:15.

Google results

Chromium six - Microsoft Internet Explorer provided by Työterveyslaitos

Address <http://www.dhs.ca.gov/ohb/HESIS/cr6.htm>

Revised June 1992

Hazard Alert



Hazard Evaluation System and Information Service

850 Marina Bay Parkway
Building P, 3rd Floor
Richmond, CA 94804

(866) 282-5516

Hexavalent Chromium

(chromium six, chromium-VI, Cr-VI, Cr-6 - e.g., chromates, chromic acid)

TABLE OF CONTENTS

- [Chromium in the Workplace](#)
- [How Chromium Enters the Body](#)
- [How Chromium Affects the Body](#)
- [Tests For Exposure Or Medical Effects](#)
- [Sources of Chromium Exposure](#)
- [How To Control Chromium Exposure](#)
- [Special Control Measures For Spraying, Welding, And Plating](#)
- [Legal Exposure Limits](#)
- [Right To Know](#)
- [Injury And Illness Prevention Program](#)
- [Resources](#)

Start Inbo... BTS ... TTL I... MOT ... TTL I... Micro... TTL I... MOT ... Chro... Internet 10:13

Results after click

Chromium six - Microsoft Internet Explorer provided by Työterveyslaitos

Address: http://www.dhs.ca.gov/ohb/HESIS/cr6.htm#INJURY_AND_ILLNESS_PREVENTION_PROGRAM

anti-corrosion coatings (chromic plating, spray coatings)	chromic trioxide (chromic acid), zinc chromate, barium chromate, calcium chromate, sodium chromate, strontium chromate
stainless steel	hexavalent chromium is given off when stainless steel is cast, welded, or torch cut
textile dyes	ammonium dichromate, potassium chromate, potassium dichromate, sodium chromate
wood preservation	chromium trioxide
leather tanning	ammonium dichromate

HOW TO CONTROL CHROMIUM EXPOSURE

The two best ways to prevent inhaling or ingesting chromium-containing particles are substituting chromium-free materials and using local exhaust ventilation. If a substitute cannot be found, a mechanically powered local exhaust hood should be placed at the point where chromium is released into the air, or the entire process should be contained within the hood. Properly designed and maintained local exhaust ventilation draws off most of the chromium before it can be inhaled.

Using local exhaust is far better than relying on dilution of chromium-contaminated air by natural ventilation through open windows and doors, or general ventilation with fresh air brought in through a duct. With the dilution approach, overexposure can still occur at the point of chromium release into the air, or if the dilution air does not mix well with the room air.

Wearing an air-purifying respirator such as a paper mask or rubber mask with screw-in filters is the least effective way to control exposure. In fact, the Cal/OSHA respirator standard (General Industry Safety Order [GISO] 5144 in Title 8 of the California Code of Regulations) allows respirator use to prevent overexposure only as the last resort. This restriction exists because the use of respirators is complex and prone to error, often resulting in inadequate protection.

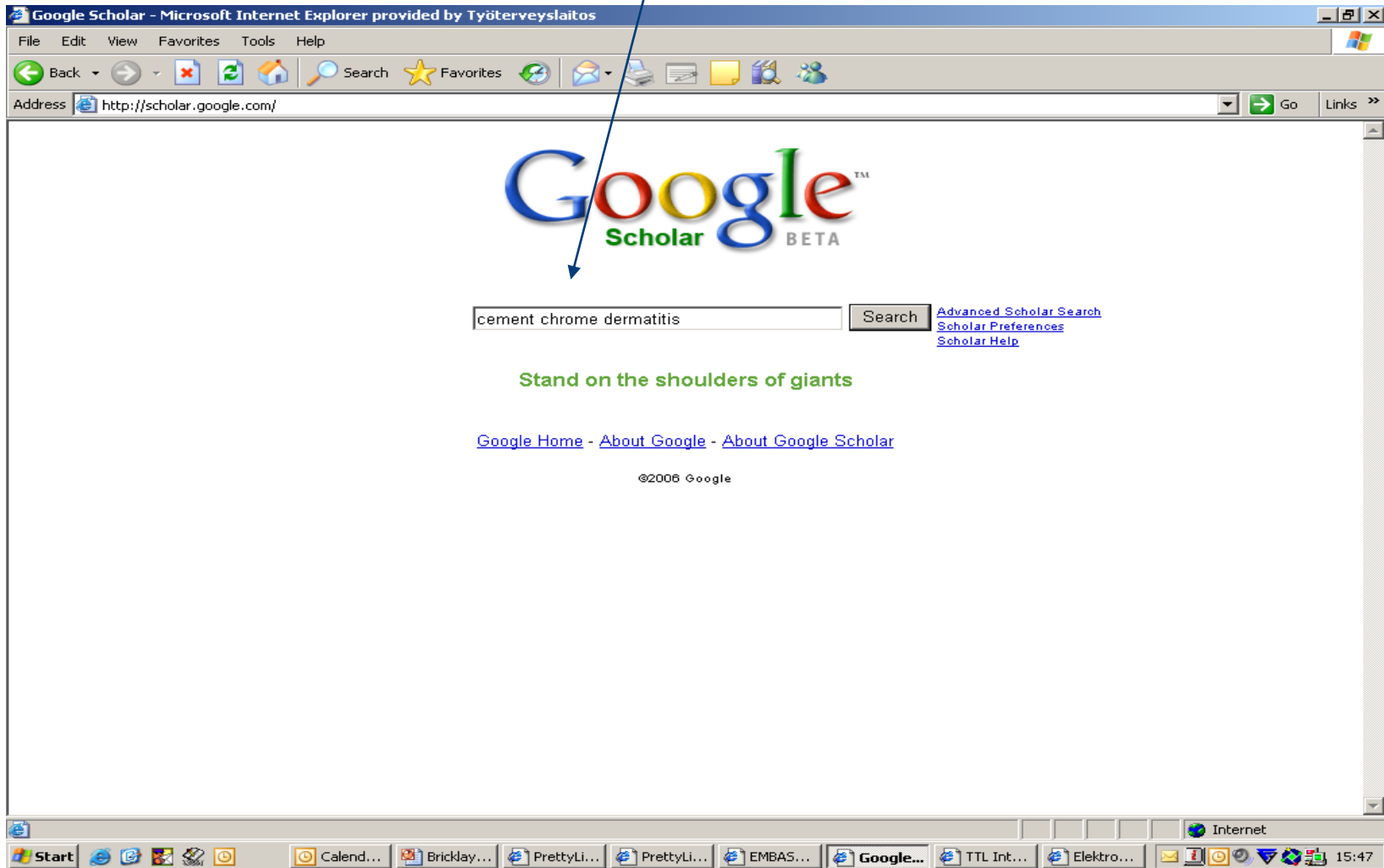
First, the respirator must be approved for the type of particles in the air; for example, a paper dust mask designed for removing powder particles will not remove the fume particles created by welding. Next, the respirator must be fit-tested to ensure that it fits the wearer's face, and the respirator must be kept in good condition. The fit should be regularly checked. Workers should also be medically examined for their ability to wear a respirator. Even when these and other requirements are met, leakage of contaminated air into the respirator may still occur.

SPECIAL CONTROL MEASURES FOR SPRAYING, WELDING, AND PLATING

Cal/OSHA enforces standards to control workplace exposure to hazardous substances. Cal/OSHA has developed special standards for some workplaces

Google Scholar: Scientific google

<http://scholar.google.com/>



You may get the whole article

cement chrome dermatitis - Google Scholar - Microsoft Internet Explorer provided by Työterveyslaitos

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Address <http://scholar.google.com/scholar?q=cement+chrome+dermatitis&ie=UTF-8&oe=UTF-8&hl=en&btnG=Search> Go Links >>

Google Scholar BETA

cement chrome dermatitis Search [Advanced Scholar Search](#) [Scholar Preferences](#) [Scholar Help](#)

Scholar Results 1 - 10 of about 163 for [cement chrome dermatitis](#). (0.07 seconds)

[All articles](#) [Recent articles](#)

[CITATION] **Cement** and oil **dermatitis**. The part played by **chrome** sensitivity
FE Anderson - *British Journal of Dermatology*, 1960
[Cited by 2](#) - [Web Search](#)

[Quantitative aspects of contact allergy to chromium and exposure to chrome-tanned leather](#) - group of 3 »
MB Hansen, S Rydin, T Menne, JD Johansen - *Contact Dermatitis*, 2002 - Blackwell Synergy
... in Denmark are consumer products containing **chrome**-tanned leather ... Fregert & Rorsman (43) elicited **dermatitis** in 65% of ... The content of Cr(VI) in **cement** has been ...
[Cited by 6](#) - [Web Search](#) - [BL Direct](#)

[Incidence rates of occupational allergic contact dermatitis caused by metals](#) - group of 2 »
L Kanerva, R Jolanki, T Estlander, K Alanko, A ... - *Am J Contact Dermat*, 2000 - [biominerais.com.br](#)
... **cement** workers, radio workers, **chrome** platers, painters, and dyers. Fregert 14 found that occupational Cr allergy occurred in 80% of the men with **dermatitis** in ...
[Cited by 23](#) - [View as HTML](#) - [Web Search](#) - [BL Direct](#)

[Cement injuries: Part I. Cement hand dermatitis resulting in "chrome cripples"](#).
AA Fisher - *Cutis*, 1998 - [ncbi.nlm.nih.gov](#)
Cement injuries: Part I. **Cement** hand **dermatitis** resulting in "**chrome** cripples".
Fisher AA. Publication Types: News. MeSH Terms: Chromates ...
[Web Search](#) - [BL Direct](#)

[Chrome and tests in cement workers](#)
G Chaniel, J Joseph, L Colin - *Lyon Med*, 1967 - [ncbi.nlm.nih.gov](#)
[**Chrome** and tests in **cement** workers] [Article in French] Chaniel G, Joseph J, Colin L. MeSH Terms: Adult; Chromium*; **Dermatitis**, Occupational*; Environmental ...
[Web Search](#)

[The dermal toxicity of cement](#) - group of 4 »

Start Internet

Calend... Bricklay... PrettyLi... PrettyLi... EMBAS... cemen... TTL Int... Elektro... 15:49

Also relevant reviews with link to publisher

- **In the previous search was added "evidence based" and found :**
- **The dermal toxicity of cement**
- **Authors:** Winder C.1; Carmody M.2
- **Source:** Toxicology and Industrial Health, Volume 18, Number 7, 1 August 2002, pp. 321-331(11)
- **Publisher:** Hodder Arnold Journals

Outcome: Answers to practical question one

- Causative substance is chrome VI
- There is more information about allergic contact dermatitis and about the exposure routes.
=> there are a lot of sources available
- There is evidence based research available!
- Preventive measures are found from the sources