

CHROMATED COPPER ARSENATE (CCA)

Guide to selected resources

last updated 09/29/04

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REGULATORY HISTORY

<http://www.epa.gov/oscpmont/sap/2003/december3/shedsprobabalisticriskassessmentnov03.pdf>

EPA REGULATION

CCA main page

<http://www.epa.gov/pesticides/factsheets/chemicals/1file.htm>

Compliance strategy (regulation overview)

http://www.epa.gov/pesticides/factsheets/chemicals/cca_strategy5.pdf

Guidance for interpreting revised CCA label

http://www.epa.gov/pesticides/factsheets/chemicals/cca_awpa_june.pdf

http://www.epa.gov/pesticides/factsheets/chemicals/awpa_table.htm

Questions and answers

http://www.epa.gov/pesticides/factsheets/chemicals/cca_qa_workers.htm

http://www.epa.gov/pesticides/factsheets/chemicals/cca_guidance_q_a.htm

http://www.epa.gov/pesticides/factsheets/chemicals/draft_cca_qa.htm

http://www.epa.gov/pesticides/factsheets/chemicals/residential_use_cancellation.htm

http://www.epa.gov/pesticides/factsheets/chemicals/cca_transition.htm

http://www.epa.gov/pesticides/factsheets/chemicals/cca_qa.htm

Preliminary Risk Assessment for Wood Preservatives Containing Arsenic and/or Chromium Reregistration Eligibility Decision

<http://docket.epa.gov/edkpub/index.jsp>

Docket ID: OPP-2003-0250

Cancellation notice (Federal Register)

<http://www.epa.gov/fedrgstr/EPA-PEST/2003/April/Day-09/p8372.htm>

EPA newsroom announcement

http://www.epa.gov/epahome/headline_021202.htm

EPA testimony

<http://www.epa.gov/pesticides/factsheets/chemicals/ccatestimony1.htm>

Evaluating CCA

http://www.epa.gov/pesticides/factsheets/chemicals/cca_evaluating.htm

Treated articles

<http://www.epa.gov/pesticides/factsheets/treatedqa.htm>

<http://www.epa.gov/pesticides/factsheets/treatart.htm>

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CPSC REGULATION

FAQs regarding CPSC

<http://www.cpsc.gov/about/faq.html>

CCA playground equipment fact sheet

<http://www.cpsc.gov/phth/ccafact.html>

CCA questions and answers

<http://www.cpsc.gov/phth/cca.html>

Ban petition (Federal Register)

<http://www.epa.gov/fedrgstr/EPA-TOX/2003/February/Day-14/t3824.htm>

Federal Hazardous Substances Act: labeling and banning requirements

<http://www.cpsc.gov/businfo/regsumfhsa.pdf>

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PMRA (CANADA) REGULATION

Main page

<http://www.hc-sc.gc.ca/pmra-arla/english/index-e.html>

About PMRA

http://www.hc-sc.gc.ca/pmra-arla/english/pdf/fact/fs_pmra-e.pdf

Fact sheet on CCA

http://www.hc-sc.gc.ca/pmra-arla/english/pdf/fact/fs_cca-e.pdf

Re-evaluation notes

<http://www.hc-sc.gc.ca/pmra-arla/english/pdf/rev/rev2002-03-e.pdf>

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WOOD PRESERVATION

What is CCA-treated wood?

http://www.ccaresearch.org/about_cca.htm

Forest Products Laboratory (FPL)

<http://www.fpl.fs.fed.us/>

Wood Preservation

<http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr113/ch14.pdf>

Guide for minimizing the effect of preservative-treated wood on sensitive environments

<http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr122.pdf>

How can I tell if my wood is properly treated?

http://www.fpl.fs.fed.us/rwu/rwu4723/pres_fire_faqs/proper.html

FAQs

http://www.fpl.fs.fed.us/rwu/rwu4723/pres_fire_faqs/preservation_faq.html

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ALTERNATIVES

What's in that pressure-treated wood?

<http://www.fpl.fs.fed.us/documnts/techline/iii-1.pdf>

What are the alternative types of treated wood for residential use?

http://www.fpl.fs.fed.us/rwu/rwu4723/pres_fire_faqs/types.html

What are CCA, ACA, ACZE, etc.?

http://www.fpl.fs.fed.us/rwu/rwu4723/pres_fire_faqs/what.html

Alternative structural materials and chemical preservatives

http://www.ccaresearch.org/CCA-treated_wood_options_98-1.pdf

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LEACHING

Leaching of wood preservative components and their mobility in the environment

<http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr93.pdf>

Environmental impact of treated wood in service

<http://www.fpl.fs.fed.us/documnts/pdf2002/lebow02a.pdf>

Copper, chromium, and arsenic in soils under decks built from pressure treated wood

<http://www.caes.state.ct.us/FactSheetFiles/AnalyticalChemistry/fsAC001f.htm>

Metals concentrations in soils below decks made of CCA-treated wood

<http://www.ccaresearch.org/decks.pdf>

Leaching and toxicity of CCA-treated and alternative-treated wood products

http://www.floridacenter.org/publications/Altchem_final_draft_update_Feb_7.pdf

Soil levels below decks in Florida

http://www.floridacenter.org/publications/solo-gabrielle_00-12.PDF

Docks and pilings

http://www.dph.state.ct.us/Publications/BCH/EEOH/arsenic_docks.pdf

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SPECIATION

Leaching of wood preservative components and their mobility in the environment

<http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr93.pdf>

Arsenic and chromium speciation of leachates from CCA-treated wood

http://www.ccaresearch.org/final_spec_d9.pdf

ATSDR toxicological profile

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c5.pdf>

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COATINGS

Effectiveness at reducing leaching (SAP final report)

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

Coatings minimize leaching from treated wood

<http://www.fpl.fs.fed.us/documnts/techline/iii-4.pdf>

Professional finishing of CCA pressure-treated wood

<http://www.fpl.fs.fed.us/documnts/pdf1992/ross92a.pdf>

Paint, stain, varnish, or preservative? It's your choice

<http://www.fpl.fs.fed.us/documnts/finlines/knaeb95b.pdf>

Finishing of wood (chapter 15)

<http://www.fpl.fs.fed.us/documnts/fplgtr/fplgtr113/ch15.pdf>

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DISLODGEABLE RESIDUES

Arsenic dislodged from CCA treated wood surfaces

Coating the wood reduces arsenic dislodged from the surface

<http://www.caes.state.ct.us/FactSheetFiles/AnalyticalChemistry/fsAC001f.htm>

CCA playground equipment fact sheet

<http://www.cpssc.gov/phth/ccafact.html>

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GARDENING

Garden use of treated lumber

<http://pubs.cas.psu.edu/freepubs/pdfs/uc173.pdf>

Arsenic availability from CCA treated lumber and uptake by plants

<http://www.extension.umn.edu/yardandgarden/YGLNews/YGLN-June0101.html#as>

Gardening on lead- and arsenic-contaminated soils

<http://cru.cahe.wsu.edu/CEPublications/eb1884/eb1884.pdf>

ATSDR toxicological profile

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c5.pdf>

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CONSUMER SAFETY

Consumer safety information sheet

http://www.epa.gov/pesticides/factsheets/chemicals/cca_consumer_safety.htm

CCA safety information website

<http://www.ccasafetyinfo.com/>

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SPANISH RESOURCES

Consumer safety information sheet

<http://www.executive-com.com/CCA%20Spanish.htm>

North Carolina Department of Health

<http://www.epi.state.nc.us/epi/oii/ccaspanish.html>

Arsenic ToxFAQs (ATSDR)

http://www.atsdr.cdc.gov/es/toxfaqs/es_tfacts2.html

Chromium ToxFAQs (ATSDR)

http://www.atsdr.cdc.gov/es/toxfaqs/es_tfacts7.html

Copper ToxFAQs (ATSDR)

http://www.atsdr.cdc.gov/es/toxfaqs/es_tfacts132.html

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HEALTH/CCA

FIFRA Scientific Advisory Panel (SAP) Meeting 2003 (December 3-5)

<http://www.epa.gov/oscpmont/sap/2003/index.htm>

Questions & Answers: Scientific Advisory Panel's Final Report on Preliminary Probabilistic Risk Assessment for Chromated Copper Arsenate

http://www.epa.gov/pesticides/factsheets/chemicals/cca_sap_final_rpt_q-as.htm

Questions/charges to the panel

<http://www.epa.gov/oscpmont/sap/2003/december3/charge.htm>

Draft probabilistic risk assessment

<http://www.epa.gov/oscpmont/sap/2003/december3/shedsprobabalisticriskassessmentnov03.pdf>

FIFRA Scientific Advisory Panel (SAP) Meeting 2001 (October 23-25)

<http://www.epa.gov/oscpmont/sap/2001/index.htm>

Note to readers (what is SAP)

<http://www.epa.gov/oscpmont/sap/2001/october/notetoreadersccasapmaterials.pdf>

Purpose of meeting

http://www.epa.gov/oscpmont/sap/2001/october/sap_introduction.pdf

Summary of studies related to residue concentration data from contaminated soil

<http://www.epa.gov/oscpmont/sap/2001/october/arsenicchromiumtable.pdf>

Final SAP report

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

In vitro bioavailability of heavy metals in pressure-treated wood dust

<http://reo.nii.ac.jp/journal/HtmlIndicate/Contents/SUP0000003000/JOU000300016/ISS0000012458/ART0000133044/ART0000133044.pdf>

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ARSENIC

Relative bioavailability of inorganic arsenic (SAP final report)

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

Dermal absorption value for inorganic arsenic (SAP final report)

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

Hazard identification report (SAP meeting documents)

<http://www.epa.gov/oscpmont/sap/2001/october/inorganicarsenic.pdf>

ATSDR ToxFAQs

<http://www.atsdr.cdc.gov/tfacts2.html>

ATSDR public health statement

<http://www.atsdr.cdc.gov/toxprofiles/phs2.html>

ATSDR toxicological profile

<http://www.atsdr.cdc.gov/toxprofiles/tp2.html>

toxicokinetics

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c2.pdf>

endocrine disruption and children's susceptibility

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c2.pdf>

chemical and physical information

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c3.pdf>

production, import, use, and disposal

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c4.pdf>

potential for human exposure

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c5.pdf>

regulations and advisories

<http://www.atsdr.cdc.gov/toxprofiles/tp2-c7.pdf>

Materials flow analysis of arsenic in the United States

<http://www.utexas.edu/research/ceer/dfe/project2.pdf>

Case studies in environmental medicine

<http://www.atsdr.cdc.gov/HEC/CSEM/arsenic/index.html>

standards and regulations

http://www.atsdr.cdc.gov/HEC/CSEM/arsenic/standards_regulations.html

Toxicity of arsenite and arsenate

http://fdep.ifas.ufl.edu/App_A.pdf

IRIS

<http://www.epa.gov/iris/subst/0278.htm>

HSDB - arsenic compounds

<http://toxnet.nlm.nih.gov/cgi-bin/sis/htmlgen?HSDB>

Environmental health criteria (EHC) (INCHEM)

<http://www.inchem.org/documents/ehc/ehc/ehc224.htm>

Role in carcinogenesis

<http://ehpnet1.niehs.nih.gov/docs/2001/109p245-251kaltreider/abstract.html>

Ecotoxicology

<http://www.usbr.gov/nlwqp/guidelines/Guidelines.pdf>

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DRINKING WATER (ARSENIC)

EPA web site

<http://www.epa.gov/safewater/arsenic.html>

Final rule

http://www.epa.gov/safewater/ars/ars_rule_techfactsheet.html

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CHROMIUM

Selection of database for hazard characterization (SAP final report)

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

Endpoint selection for dermal risk assessments (SAP final report)

<http://www.epa.gov/oscpmont/sap/2001/october/ccawood.pdf>

Hazard identification report (SAP meeting documents)

<http://www.epa.gov/oscpmont/sap/2001/october/arsenicgraphdata.pdf>

ATSDR ToxFAQs

<http://www.atsdr.cdc.gov/tfacts7.html>

ATSDR public health statement

<http://www.atsdr.cdc.gov/toxprofiles/phs7.html>

ATSDR toxicological profile

<http://www.atsdr.cdc.gov/toxprofiles/tp7.html>

Case studies in environmental medicine

<http://www.atsdr.cdc.gov/HEC/CSEM/chromium/index.html>

standards and regulations

http://www.atsdr.cdc.gov/HEC/CSEM/chromium/standards_regulations.html

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COPPER

ATSDR ToxFAQs

<http://www.atsdr.cdc.gov/tfacts132.html>

ATSDR public health statement

<http://www.atsdr.cdc.gov/toxprofiles/phs132.html>

ATSDR toxicological profile

<http://www.atsdr.cdc.gov/toxprofiles/tp132.html>

Ecotoxicology

<http://www.usbr.gov/niwqp/guidelines/Guidelines.pdf>

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DISPOSAL

Consumer safety information sheet

http://www.epa.gov/pesticides/factsheets/chemicals/cca_consumer_safety.htm

How do I dispose of treated wood?

http://www.fpl.fs.fed.us/rwu/rwu4723/pres_fire_faqs/dispose.html

Generation, use, disposal, and management options

http://www.ccaresearch.org/CCA-treated_wood_options_98-1.pdf

Disposal of CCA-treated wood: existing and alternative management options

http://www.ccaresearch.org/disposal_cca_wood_99-6.pdf

CCA removal from treated wood using a dual remediation process

<http://www.fpl.fs.fed.us/documnts/pdf2000/claus00d.pdf>

Environmental Health Perspectives

<http://ehpnet1.niehs.nih.gov/docs/2001/109-6/innovations.html>

Metal concentrations in CCA-treated wood and wood ash

http://www.ccaresearch.org/metals_concentration.htm

Western United States disposal

<http://www.wwpinstitute.org/pdffiles/westernstatesdisp.pdf>

EPA state offices

<http://www.epa.gov/epaoswer/osw/stateweb.htm>

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