

# Chlorinated Tris

## [Tris(1,3-dichloro-2-propyl)phosphate, TDCPP, and TDCIPP] in Furniture Products

### Why am I being warned about potential exposure to chlorinated tris in furniture products?



- Tris(1,3-dichloro-2-propyl)phosphate (also known as chlorinated tris, TDCPP and TDCIPP) is on the [Proposition 65](#) list because it can cause cancer.
- Exposure to chlorinated tris may increase cancer risk.
- Proposition 65 requires businesses to determine if they must provide a warning about significant exposure to [listed chemicals](#).

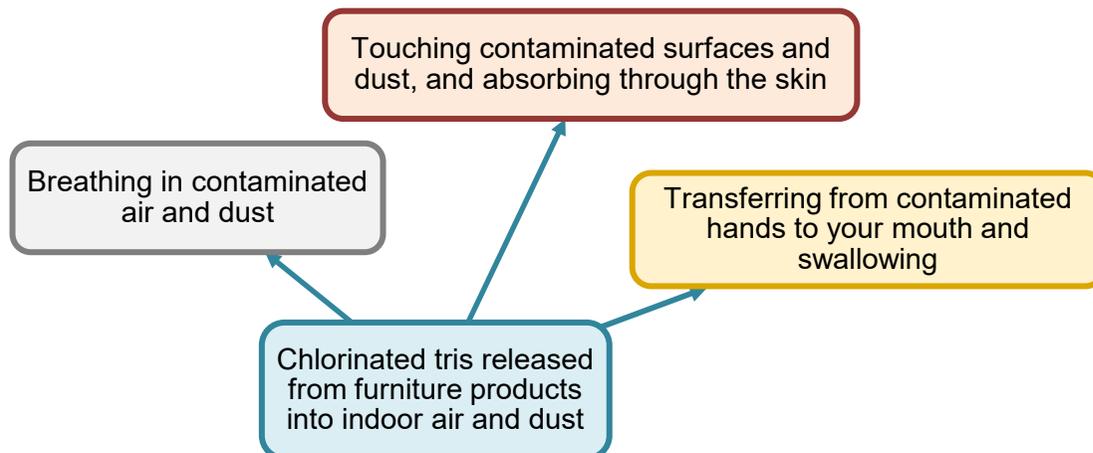
### What is chlorinated tris?

- Chlorinated tris is a chemical flame retardant. Adding flame retardants to furniture products is one way to reduce flammability.
  - ▶ Polyurethane foam treated with chlorinated tris may be used in upholstered furniture.
  - ▶ Textiles and plastic treated with chlorinated tris may be used in furniture products.

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### How does exposure to chlorinated tris from furniture products occur?

- Chlorinated tris can be gradually released from treated furniture products into indoor environments, including houses, schools, day care centers, offices, and cars.
- After chlorinated tris is released from furniture products, it is present on floors, furniture, and other surfaces, and in air and dust.
- Young children may have higher exposure to chlorinated tris because:
  - ▶ It can be present in children's furniture products, such as nap mats, travel beds, bassinets, portable crib mattresses, and playpens.
  - ▶ Infants and toddlers often crawl and play on the floor, getting more dust on their hands, and putting their fingers, toys, and other objects in their mouths.

**Main ways you can be exposed to chlorinated tris used in furniture products:****How can I reduce my exposure to chlorinated tris from furniture products?**

- ✓ Consider furniture products made with foam alternatives, such as cotton, wool, natural latex, or products made with untreated polyurethane foam.
- ✓ Look for children's furniture products that are labeled as not using flame retardants.
- ✓ For upholstered furniture, check the label commonly found underneath the seat cushion, and look for:
  - ▶ TB 117-2013 label ([Technical Bulletin 117-2013](#)) for furniture manufactured and sold in California beginning in January 2015: The label *must* indicate whether or not the product contains added flame retardants. Products with this label are *less likely* to have chlorinated tris.
  - ▶ TB 117 label (Technical Bulletin 117) for furniture manufactured and sold in California prior to 2015: The label *will not* indicate whether or not added flame retardants are present. Products with this label are *more likely* to have flame retardants such as chlorinated tris.
  - ▶ If you do not see a label, ask if flame retardants, and specifically chlorinated tris, have been added to the product.
- ✓ Replace upholstered furniture products that are torn or have crumbling foam.
- ✓ Minimize your exposure to dust, which can contain chlorinated tris.
  - ▶ Wash your hands and your child's hands frequently, especially before preparing food, and before eating.
  - ▶ Clean floors regularly, using a wet mop, or a vacuum cleaner with a high-efficiency particulate air (HEPA) filter, if possible.
  - ▶ Wipe up dust regularly, using a damp cloth.

**For more information:****Chlorinated Tris in Furniture Products**

- California Environmental Protection Agency (CalEPA)  
Department of Toxic Substances Control (DTSC)
  - ▶ Effective July 1, 2017: Children's Foam-Padded Sleeping Products with TDCPP as a Priority Product  
<https://dtsc.ca.gov/scp/childrens-foam-padded-sleeping-products-with-tdcpp-or-tcep/>
- California Department of Consumer Affairs (DCA)
  - ▶ Technical Bulletin 117-2013  
[https://www.gsa.gov/cdnstatic/TB\\_117\\_2013.pdf](https://www.gsa.gov/cdnstatic/TB_117_2013.pdf)

**Scientific Information on Chlorinated Tris**

- California Environmental Protection Agency (CalEPA)  
Office of Environmental Health Hazard Assessment (OEHHA)
  - ▶ Evidence on the Carcinogenicity of Tris(1,3,-Dichloro-2-Propyl) Phosphate [Chlorinated Tris]  
<http://oehha.ca.gov/media/downloads/proposition-65/chemicals/tdcpp070811.pdf>
- Biomonitoring California
  - ▶ Tris(2-chloroethyl) phosphate (TCEP)  
<https://biomonitoring.ca.gov/chemicals/tris2-chloroethyl-phosphate-tcep>

**Proposition 65**

- California Environmental Protection Agency (CalEPA)  
Office of Environmental Health Hazard Assessment (OEHHA)
  - ▶ Proposition 65: Background  
<https://www.p65warnings.ca.gov/faq>
  - ▶ Proposition 65: The List of Chemicals  
<https://www.p65warnings.ca.gov/chemicals>
  - ▶ Proposition 65: Fact Sheets  
<https://www.p65warnings.ca.gov/fact-sheets>