

2016 Children's Safe Products - Reporting Rule update Draft Chemical Evaluation

CAS 126-72-7

Substance Name Tris (2,3-dibromopropyl) phosphate (**TDBPP**)

Toxicity

Tris (2,3-dibromopropyl) phosphate (TDBPP) is reasonably anticipated to be a human carcinogen by the National Toxicology Program [1], is listed as carcinogen on California's Proposition 65 List, and is classified as possible (2A) carcinogen by the International Agency for Research on Cancer (IARC). According to the European Food Safety Authority (EFSA) (2012), there is convincing evidence that TDBPP is genotoxic and carcinogenic [2].

Exposure

TDBPP was used as a flame retardant in children's clothing until banned in 1977 [3]. According to the National Toxicology Program, it has been used as an additive flame retardant in polyurethane foams, polystyrene foam, acrylic carpets and sheets, water flotation devices, polyvinyl and phenolic resins, paints, lacquers, paper coatings, styrene-butadiene rubber, and latex [1]. These types of materials are used in children's products and the chemical is still available for sale from overseas suppliers. A disclosure requirement could confirm that imported children's products do not contain this flame retardant. No current information on uses or national production volume is available [4].

TDBPP has not been included in many house dust sampling studies. It was identified in one study of house dust in California [5]. No biomonitoring studies were located.

References

1. NTP, *Report on Carcinogens, Thirteenth Edition*, U.D.o.H.a.H.S. National Toxicology Program, Editor. 2014.
2. EFSA, *Scientific Opinion on Emerging and Novel Brominated Flame Retardants (BFRs) in Food*. 2012, European Food Safety Authority: Parma, Italy.
3. CPSC. *CPSC Bans TRIS-Treated Children's Garments 1977* 8/12/2015]; Available from: <http://www.cpsc.gov/en/Newsroom/News-Releases/1977/CPSC-Bans-TRIS-Treated-Childrens-Garments/>.
4. EPA. *Chemical Data Access Tool (CDAT) - Chemical Data Reporting (CDR) information on the production and use of chemicals manufactured or imported into the United States*. 2012 10/15/2015 10/30/2015]; Available from: http://java.epa.gov/oppt_chemical_search/.
5. Dodson, R.E., et al., *After the PBDE phase-out: a broad suite of flame retardants in repeat house dust samples from California*. *Environ Sci Technol*, 2012. **46**(24): p. 13056-66.