



### **CAS 126-72-7 - Tris (2,3-dibromopropyl) phosphate (TDBPP)**

#### **Toxicity**

TDBPP is considered a carcinogen by the State of California under Proposition 65.<sup>1</sup> The International Agency for Research on Cancer (IARC) has classified TDBPP as a Group 2A possible carcinogen.<sup>2</sup> The National Toxicology Program (NTP) has characterized TDBPP as a reasonably anticipated human carcinogen.<sup>3</sup> According to the European Food Safety Authority (EFSA), evidence suggests that TDBPP is carcinogenic and a genetic toxicant.<sup>4</sup>

#### **Exposure**

TDBPP has been used in acrylic carpets and sheets, polyvinyl and phenolic resins, polystyrene foam, paints, lacquer, paper coatings, styrene-butadiene rubber, latex and water flotation devices as an additive flame retardant.<sup>5</sup> A California study sampled household dust in 2006 and 2011 and detected TDBPP in 75% of the samples.<sup>6</sup> Laundering treated cellulose acetate and polyester fabrics can leach TDBPP into the wash and water.<sup>7</sup> TDBPP was detected in seawater samples gathered from the Yellow and East China Sea, wastewater sludge at a Canadian wastewater treatment plant and in Arkansas soil and ambient air samples.<sup>8-11</sup>

#### **Other**

In 1977 the U.S. Consumer Product Safety Commission (CPSC) banned the sale of children's garments containing TDBPP due to results of a National Cancer Institute (NCI) report showing TDBPP causes cancer in animals.<sup>12</sup>

#### **References**

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