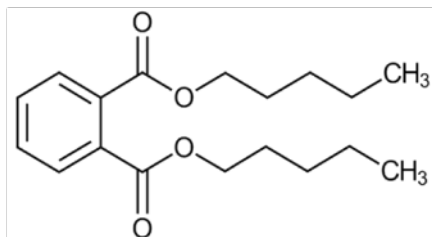


CAS 131-18-0

# Dipentyl phthalate (DPP, DPNP)

C<sub>18</sub>H<sub>26</sub>O<sub>4</sub>



## Summary of Health Effects

DPP may harm development or the reproductive system, based on animal studies.

## How is DPP used?

DPP was detected in hair straightening cream in a 2013 Spanish study.<sup>1</sup> DPP was detected in plastic film in India, and tea and liquor in China.<sup>2,3,4</sup>

## Toxicity: What are its health effects?

The European Union lists DPP on the priority list of endocrine disruptors and has identified DPP as a Substance of Very High Concern (SVHC) for reproductive toxicity.<sup>5,6</sup>

Among phthalates, DPP was noted to produce some of the most potent reproductive effects by the U.S. Consumer Product Safety Commission (CPSC). The Chronic Hazard Advisory Panel determined exposure to DPP contributes to a cumulative antiandrogenic effect with other phthalates and should be permanently banned in children's toys and childcare items at levels greater than 0.1

percent.<sup>7</sup> In 2017 the CPSC banned DPP in children's toys and child care items at levels greater than 0.1 percent.<sup>8</sup>

Male offspring of pregnant rats fed DPP had significantly lower fetal testicular testosterone levels.<sup>9,10</sup>

## Exposure: How can a person come in contact with it?

A person may come in contact with DPP by eating or drinking contaminated food, breathing in contaminated air or dust or from skin contact with consumer products containing DPP.

DPP was detected in indoor dust collected in the U.S. from Delaware and Northern California homes.<sup>11,12</sup> DPP was detected in indoor and outdoor air, dust, soil, and sediment in India, and soil and indoor air from automobiles in China.<sup>13-16</sup> In Austria and Germany, a metabolite of DPP, MnPEP, was found in children's urine.<sup>17,18</sup>

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