



Pentabromodiphenyl Ether (PentaBDE) Mixture [DE-71 (Technical Grade)]

Why am I being warned about potential exposure to pentaBDE mixture [DE-71 (technical grade)]?



- PentaBDE mixture [DE-71 (technical grade)] is on the [Proposition 65](#) list because it can cause cancer. Exposure to this mixture may increase the risk of cancer.
- Proposition 65 requires businesses to determine if they must provide a warning about significant exposure to [listed chemicals](#).

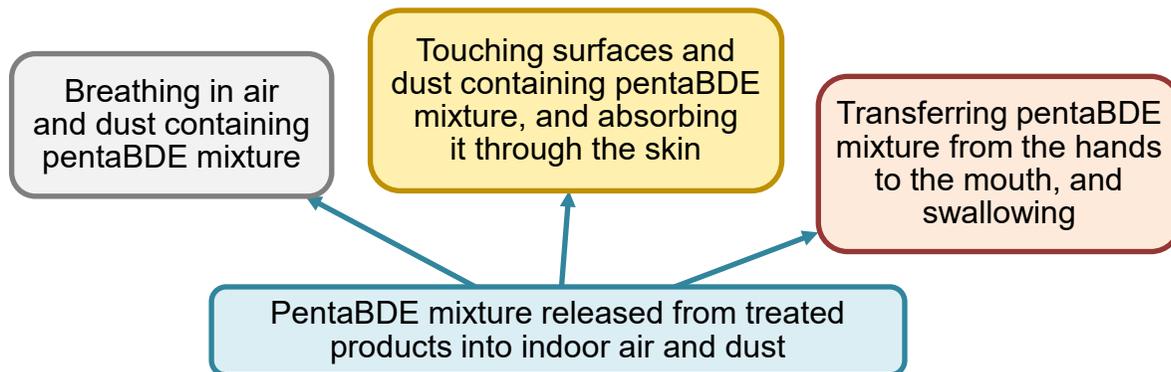
What is this pentaBDE mixture?

- It is a flame retardant.
- In the past, it was added to certain consumer products, including:
 - ▶ Products made with polyurethane foam, such as some couches, mattresses, carpet padding, and other upholstered items.
 - ▶ Plastics in many electronic and electrical devices, including personal computers and household appliances.
- In 2006, California banned the manufacture, processing, or sale of products with more than 0.1% of pentaBDE.

How does exposure to pentaBDE mixture occur?

- PentaBDE mixture can be gradually released from older items made with polyurethane foam and plastics, into indoor environments such as houses, schools, day care centers, and offices.
- Once it is released from products, it can be present on floors, furniture and other surfaces, and in air and dust.
- It can be released into air, soil, and water from waste disposal sites that handle treated items such as foam mattresses, upholstered furniture, or plastics from electrical and electronic products.
- It may be present in and around industrial sites where it was produced or used in the past.
- It can remain in the body for years. If a woman is exposed to this chemical and later becomes pregnant, her baby can be exposed to PentaBDE during pregnancy.

Main ways you can be exposed to pentaBDE mixture:



How can I reduce my exposure to pentaBDE mixture?

- ✓ Replace upholstered furniture products that are torn or have crumbling foam.
- ✓ Safely dispose of electrical and electronic items, especially older ones that may contain pentaBDE mixture.
 - ✗ Do not disassemble or burn them.
 - ▶ [E-waste](#) products must be taken to a designated handler or recycler.
 - ▶ Find out if your city or county has a program to pick up or accept items for recycling.
- ✓ Minimize your exposure to dust, which can contain this pentaBDE mixture.
 - ▶ 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:

General Fact Sheets and Resources

- California Environmental Protection Agency (CalEPA)
CalRecycle
 - ▶ What is E-Waste?
<https://www.calrecycle.ca.gov/Electronics/WhatisEwaste/>

Scientific Information on PentaBDE mixture [DE-71 (technical grade)]

- US Department of Health and Human Services (HHS)
National Toxicology Program (NTP)
 - ▶ NTP Technical Report on the Toxicology Studies of a Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
https://ntp.niehs.nih.gov/ntp/htdocs/lt_rpts/tr589_508.pdf

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>