

# Proposition 65 Warnings Office of Environmental Health Hazard Assessment www.P65Warnings.ca.gov



# Titanium Dioxide (Airborne, Unbound Particles of Respirable Size)

Why am I being warned about potential exposure to titanium dioxide (airborne, unbound particles of respirable size)?



- Titanium dioxide (airborne, unbound particles of respirable size) is on the <u>Proposition 65</u> list because it can cause cancer. Exposure to titanium dioxide 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 titanium dioxide?

Titanium dioxide is a chemical used as a pigment to make products appear white or non-transparent. These include some sunscreens, cosmetics, and art products.

# What form of titanium dioxide am I being warned about?

- Not all forms of titanium dioxide are on the Proposition 65 list.
- The only form of titanium dioxide on the Proposition 65 list consists of airborne particles measuring 10 micrometers or less (about one-seventh the thickness of a human hair), which can be inhaled. These microscopic particles may be present in certain products such as:
  - Some spray-on (aerosolized) sunscreens, hair color sprays, and cosmetic powders.
  - Powdered titanium dioxide, used to make materials for arts and crafts.

# How does exposure to this form of titanium dioxide occur?

Small particles of titanium dioxide are released from some consumer products into the air

People breathe air with small particles of titanium dioxide

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OEHHA Titanium Dioxide

# How can I reduce my exposure to this form of titanium dioxide?

- ✓ Use sunscreen to protect your skin from damaging sunlight, but avoid spray-on sunscreens that contain titanium dioxide.
- ✓ Avoid or minimize the use of hair color sprays containing titanium dioxide.
  - If you choose to use spray-on sunscreens or hair color sprays with titanium dioxide, try to apply them outside, rather than in an enclosed space.
  - Supervise children's use of these products to prevent excessive or playful spraying of the products.
- Choose cosmetic powders that are free of titanium dioxide. If you use powdered products with titanium dioxide, apply the products carefully to minimize the amount that gets into the air. For example, avoid dusting vigorously with a makeup brush. Supervise any use of these products by children.
- ✓ When using art materials containing titanium dioxide, avoid actions that can unnecessarily release the materials into the air, especially indoors. For example, if it is necessary to shake out a table covering or garment after using these art materials, do so outdoors.

#### For more information:

## **General Fact Sheets and Resources**

- California Department of Public Health (CDPH)
  - ▶ California Safe Cosmetics Program Product Database https://safecosmetics.cdph.ca.gov/search/reportedchemicals.aspx
  - Cosmetics Containing Ingredients Linked to Cancer or Reproductive Harm https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/OHB/CSCP/CDPH%20 Document%20Library/DataReport.pdf

# **Scientific Information on Titanium Dioxide**

- World Health Organization (WHO)
   International Agency for Research on Cancer (IARC)
  - "Titanium Dioxide" section in Carbon Black, Titanium Dioxide, and Talc (2010), vol. 93, pages 193-276. <a href="https://publications.iarc.fr/111">https://publications.iarc.fr/111</a>

# **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 <a href="https://www.p65warnings.ca.gov/chemicals">https://www.p65warnings.ca.gov/chemicals</a>
  - Proposition 65: Fact Sheets <a href="https://www.p65warnings.ca.gov/fact-sheets">https://www.p65warnings.ca.gov/fact-sheets</a>

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