

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



Styrene

Why am I being warned about potential exposure to styrene?



- Styrene is on the <u>Proposition 65</u> list because it can cause cancer. Exposure to styrene may increase the risk of cancer.
- Proposition 65 requires businesses to determine if they must provide a warning about significant exposure to <u>listed chemicals</u>.

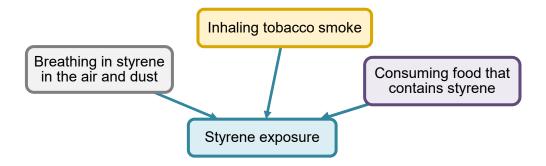
What is styrene?

 Styrene is an industrial chemical used to produce a number of different products, including synthetic rubbers, latex paints and coatings, and polystyrene plastics and resins.

How does exposure to styrene occur?

- Styrene is released into indoor air from some paints and building materials, such as certain types of insulation, insulated panels, and rubber flooring.
- Styrene is released into indoor air during the operation of some 3D printers that use filaments containing acrylonitrile butadiene styrene (ABS) or high-impact polystyrene (HIPS). It can also be released by some photocopiers and laser printers that use toners containing styrene copolymers.
- Styrene is released into the air from some industrial facilities, including plastics and fiberglass manufacturers, and waste disposal sites.
- Small amounts of styrene can be transferred to some food from polystyrenebased food-contact items, such as drinking cups, plates, and other containers.
- Styrene is found in tobacco smoke.
- During pregnancy, styrene can pass from mother to baby.

Main ways you can be exposed to styrene:



Updated May 2019 1/2

OEHHA Styrene

How can I reduce my potential exposure to styrene?

- 🛇 Do not smoke tobacco. Avoid breathing air that contains tobacco smoke.
- ⊗ Do not allow children to smoke tobacco products or spend time in places where tobacco is being smoked, or has been smoked.
- ✓ If possible, limit your consumption of hot foods and beverages from polystyrenebased containers. Do not heat foods or beverages in these containers, which include cups, bowls, and clamshell and other take-out containers. Polystyrene containers may appear as clear or colored plastic or foam, and often carry the recycle code 6.
- ✓ Use a well-ventilated area for printing, especially if you are using:
 - > 3D or laser printers that use filaments containing styrene copolymers.
 - Photocopiers with toners containing styrene copolymers.

For more information:

General Fact Sheets and Resources

- US Department of Health and Human Services (HHS)
 National Institute of Environmental Health Sciences (NIEHS)
 - ► Styrene <u>https://www.niehs.nih.gov/health/topics/agents/styrene/index.cfm</u>

Agency for Toxic Substances and Disease Registry (ATSDR)

- Public Health Statement for Styrene https://wwwn.cdc.gov/TSP/PHS/PHS.aspx?phsid=419&toxid=74
- ► Styrene ToxFAQsTM https://www.atsdr.cdc.gov/toxfaqs/tfacts53.pdf

Scientific Information on Styrene

- World Health Organization (WHO)
 International Agency for Research on Cancer (IARC)
 - ▶ IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, vol. 82 (2002). "Styrene" in Some Traditional Herbal Medicines, Some Mycotoxins, Naphthalene and Styrene, pages 437-550.
 https://publications.iarc.fr/100
- US Department of Health and Human Services (HHS) National Toxicology Program (NTP)
 - ► Styrene, Report on Carcinogens, Fourteenth Edition https://ntp.niehs.nih.gov/ntp/roc/content/profiles/styrene.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 <u>https://www.p65warnings.ca.gov/fact-sheets</u>

Updated May 2019 2/2