

**CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY**  
**OFFICE OF ENVIRONMENTAL HEALTH HAZARD ASSESSMENT**  
**SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986**  
**(PROPOSITION 65)**

**NOTICE OF INTENT TO LIST CHEMICALS BY THE LABOR CODE MECHANISM:  
ANTHRACENE, 2-BROMOPROPANE, AND DIMETHYL HYDROGEN PHOSPHITE**

**JUNE 16, 2023**

The California Environmental Protection Agency's Office of Environmental Health Hazard Assessment (OEHHA) intends to list anthracene (CAS RN 120-12-7), 2-bromopropane (CAS RN 45-26-3), and dimethyl hydrogen phosphite (CAS RN 868-85-9) as known to the state to cause cancer under the Safe Drinking Water and Toxic Enforcement Act of 1986, sections 25249.5 et seq. of the Health and Safety Code (HSC), otherwise known as Proposition 65.

This action is being proposed pursuant to the "Labor Code" listing mechanism described below. OEHHA has determined that these substances meet the criteria for listing by this mechanism.

**Background on listing by the Labor Code mechanism:** Health and Safety Code section 25249.8(a) incorporates California Labor Code section 6382(b)(1) into Proposition 65. The law requires that certain substances identified by the International Agency for Research on Cancer (IARC) be listed as known to cause cancer under Proposition 65. Labor Code section 6382(b)(1) refers to substances identified as human or animal carcinogens by IARC. OEHHA has adopted regulations concerning these listings in Title 27, California Code of Regulations (CCR), section 25904. As the lead agency for the implementation of Proposition 65, OEHHA evaluates whether a chemical's listing is required.

**OEHHA's determination:** *Anthracene, 2-bromopropane, and dimethyl hydrogen phosphite* meet the requirements for listing as known to the state to cause cancer for purposes of Proposition 65 (Title 27, CCR, section 25904(b)(3)).

IARC published on its website a list entitled "Agents Classified by the IARC Monographs, Volumes 1 - 133" (IARC, 2023). IARC concluded that *2-bromopropane* is classified in Group 2A ("probably carcinogenic to humans") and that *anthracene* and *dimethyl hydrogen phosphite* are classified in Group 2B ("possibly carcinogenic to humans"). IARC concluded that there is sufficient evidence of carcinogenicity in animals for *anthracene, 2-bromopropane, and dimethyl hydrogen phosphite* (Cattley et al., 2023).

**Opportunity for comment:** OEHHA is providing this opportunity to comment as to whether the chemicals identified above meet the requirements for listing as causing cancer (HSC section 25249.8(a); Title 27, CCR, section 25904(b)). Because this is a ministerial listing, comments should be limited to whether IARC has sufficiently identified the specific chemicals or substances as a human or animal carcinogen. Under this listing mechanism, OEHHA cannot consider scientific arguments concerning the weight or quality of the evidence considered by IARC when it identified these chemicals and will not respond to such comments if they are submitted.

### **Submission of Comments**

All written comments must be submitted to OEHHA by electronic submission, mail, or hand-delivery, by **Monday, July 17, 2023**. OEHHA strongly recommends that comments be submitted electronically through our website at <https://oehha.ca.gov/comments>, rather than in paper form. Alternatively, comments can be submitted in paper form, either by mail or delivered in person.

Electronic Submission (preferred):

Through OEHHA website at: <https://oehha.ca.gov/comments>

Mailed Submission:

Attention: Kiana Vaghefi  
Office of Environmental Health Hazard Assessment  
P. O. Box 4010  
Sacramento, California 95812-4010

In-person delivery submission:

Attention: Kiana Vaghefi  
Office of Environmental Health Hazard Assessment  
1001 I Street, 23rd Floor  
Sacramento, California 95814

OEHHA encourages all commenters to submit their comments in a format compliant with Section 508 of the federal Rehabilitation Act, Web Content Accessibility Guidelines 2.1 (<https://www.w3.org/WAI/standards-guidelines/wcag>) and California Government Code sections 7405 and 11135, so that they can be read using screen reader technology.

Comments received during the public comment period will be posted on the OEHHA website after the close of the comment period.

OEHHA is subject to the California Public Records Act and other laws that require the release of certain information upon request. If you provide comments, please be aware that your name, address, and e-mail may be available to third parties.

If you have any questions, please contact Kiana Vaghefi at [Kiana.Vaghefi@oehha.ca.gov](mailto:Kiana.Vaghefi@oehha.ca.gov) or at (916) 445-6900.

## References

Cattley RC, Kromhout H, Sun M, Tokar EJ, Abdallah M A-E, Bauer AK, Broadwater KR, Campo L, Corsini E, Houck KA, Ichihara G, Matsumodo M, Morais S, Mráz J, Nomiyama T, Ryan K, Shen H, Toyoda T, Vähäkangas KH, Yakubovskaya MG, Yu IJ, DeBono NL, de Conti A, El Ghissassi F, Madia F, Mattock H, Pasqual E, Suonio E, Wedekind R, Benbrahim-Tallaa L, Schubauer-Berigan MK (2023). Carcinogenicity of anthracene, 2-bromopropane, butyl methacrylate, and dimethyl hydrogen phosphite. *The Lancet Oncology*. Published online March 23, 2023, doi: [https://doi.org/10.1016/S1470-2045\(23\)00141-9](https://doi.org/10.1016/S1470-2045(23)00141-9) [Available at URL: [https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045\(23\)00141-9/fulltext](https://www.thelancet.com/journals/lanonc/article/PIIS1470-2045(23)00141-9/fulltext)]

IARC (2023). International Agency for Research on Cancer. World Health Organization. Agents Classified by the IARC Monographs, Volumes 1–133. Most recent list available at URL: <https://monographs.iarc.fr/list-of-classifications-volumes/>