

# 25-27 Biennium Budget

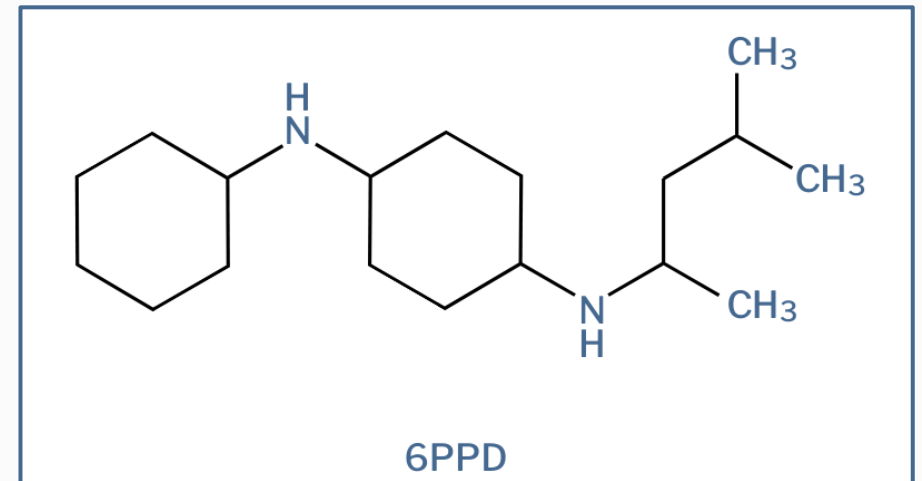
- **\$1.1 million** to conduct monitoring and analyze water and sediment for 6PPD
- **\$2.9 million** to find safer alternatives to 6PPD in consumer products
- **\$4.4 million** to identify effective best management practices to treat 6PPD in stormwater

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**\$8.4 million**

# Finding safer alternatives to 6PPD

- **Hazard criteria** contains toxicity criteria
- Data on acute aquatic toxicity to:
  - Coho salmon.
  - Rainbow trout.
  - Two other food chain levels.
- Data on transformation toxicity
- If the department finds safer alternatives exist, recommend regulatory, policy, or legislative actions to advance safer alternatives.



# Safer Products for Washington

- 6PPD
  - Tires
  - Recycled rubber products
- Products report: available now
- Webinars: June 17
- Regulatory recommendations: June 2027



Photo credit: [Rubberecycle Mulch](#)  
Changes made: cropped to square

# Alternatives – preliminary results

- CCPD: currently assessing toxicity tests
- 7PPD, IPPD, and durazone-37
  - Have not failed toxicity testing yet
  - Good rubber performance
- Graphene
  - Probably can't remove 6PPD completely from tires



# Flexsys – 6PPD Manufacturer

- Only U.S.-based manufacturer
- Contract with USDA – synthesizing chemical alternatives
- 3 candidates moving to toxicity testing with USGS
  - No PPDs, non quinone forming
- 12-18 months to share alternative testing results
- Estimate 10 years – all passenger tires 6PPD free
- Estimate 15 years – all truck tires 6PPD free

# Considerations - Alternatives Projects

- Rubber performance testing
- Alternatives toxicity tests: hyalella, daphnia, coho salmon, rainbow trout, mussels
- Additional 6PPDQ species sensitivity testing: invertebrates, lamprey

# Considerations - Action Plan Projects

- Defining PPDs as a class
- Other products with 6PPD
- Holistic health effects from salmon decline
- Emerging Contaminants Collaborative
- 6PPD research clearinghouse
- Field monitoring
- Artificial turf alternative and installation guidance
- Fish bioassays for tire waste stream designation
- Air sampling

# Proposed - Tire Fee in Washington

- Oregon tire fee bill (HB 3362) – transportation?
  - 4% tax: stormwater mitigation and rail upgrades
- Potential modifications for WA bill
  - Paid by tire industry
  - \$1....\$3.....\$5....sunsets for 6PPD free tires
  - Certification process for 6PPD free tires
  - Stormwater mitigation and safer alternatives