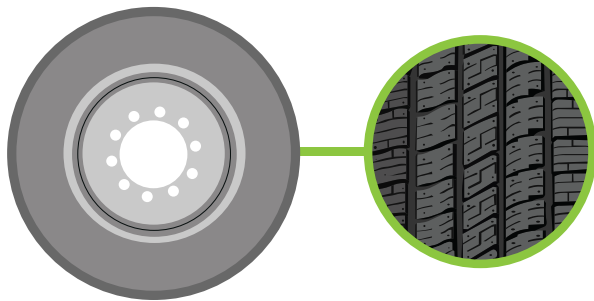


Microplastic pollution

Tyre wear particles are considered the largest source of microplastics in the environment. They are transmitted daily through traffic and are seen as a serious threat to the eco system². In fact, 10–25% of the ocean's microplastics originate from tyres¹.

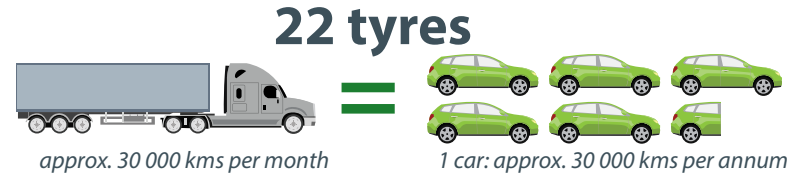
Tyre Wear Particles (TWP)

Tyre wear particles (TWP) are generated as the tread, the actual wearing part of a tyre, comes into contact with the pavement of our roads.



Heavy Vehicles vs cars

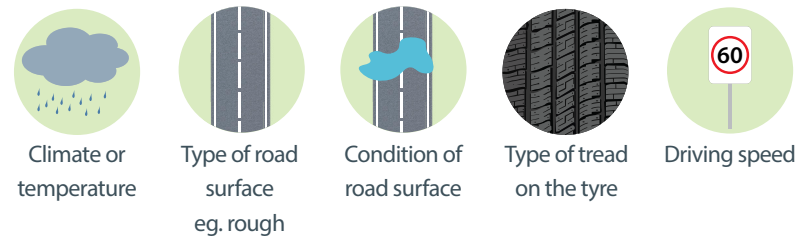
The number of tyres as well as the distance travelled by the different vehicle groups plays a significant role in TWP production.



Heavy vehicles are much larger than cars, and have more tyres as well as travelling significantly more distance, so the volume of TWP generated is also a lot larger.

Factors

There are a variety of factors that influence the size and quantity of the TWP that are introduced into the environment³:



How they travel



Microplastics from tyres can travel thousands of kilometres from where they were first released.

18–37

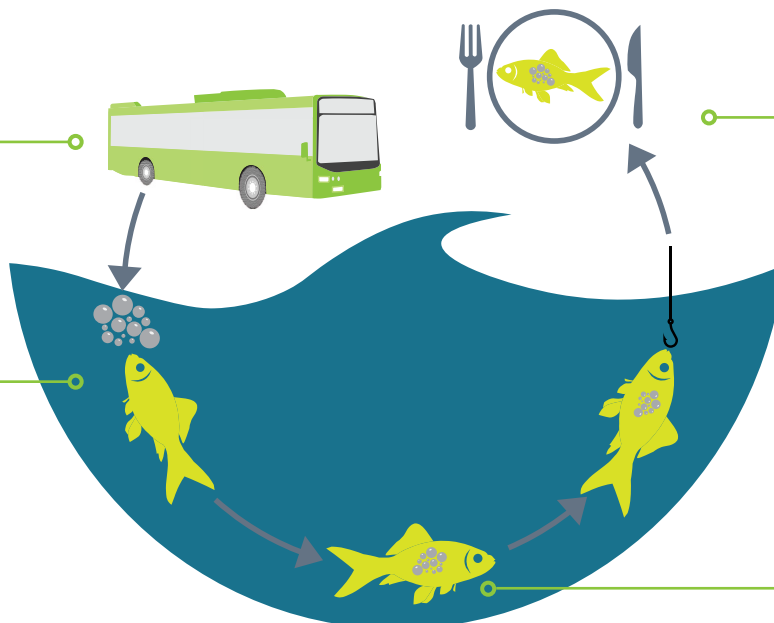
The smaller the particle, the further they can spread. The most miniscule microplastics can stay airborne for 18–37 days.

43%
57%

43% of the smaller microplastics from tyres remain on land, 57% will travel into the ocean¹.

100,000 metric tonnes of microplastics are sourced from tyre wear and tear.

These are carried through the air, eventually ending up in the ocean.



Tyre wear particles make their way into the food chain that humans consume

The microplastics are ingested by fish, which can be quite toxic.