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ABSTRACT

Cigarettbuts are the plastic items which are most frequently thrown on the ground and in nature. Research has shown that around $\frac{2}{3}$ s of the butts that are consumed globally, is being thrown on the ground, corresponding to 4,5 trillion cigarettebutts and 750 000 tons. A single cigarettebutt, contains over 7000 different toxins, which will leak out into the ground when thrown away. The aim of the study was to investigate whether the toxins in cigarettebutts affect organisms and if it varies between plants or animals. Duckweed and Copepod were placed in five different containers, holding five different concentrations of water polluted by butts. Results show that plants do not react to the toxins negatively, but instead convert the substances in butts to nutrients, which help them survive even longer. Animals, on the other hand, showed an increased death rate, when exposed to higher concentrations of the polluted water. The conclusions that can be made, is that the toxins do not affect plants negatively but, higher concentrations of toxins can be mortal for animals.