

# Microplastics and their Role as a Sorbed Chemical

Pawan Tarade\*

Department of Chemistry, Affiliated to Savitribai Phule Pune University, Pune, Maharashtra, India

## Editorial

Plastic has become a curse to the mankind and planet earth due to its degradable nature. The plastic huge use over the years has activated the polluting agent's role and chemical properties of plastic have turned it into a dangerous menace for the society. Microplastics can be found everywhere in the current scenario due to its excess and unchecked use and its property as a Global Change Factor has already been accepted as a consensus in scientific literature. The unchecked, uncontrolled and huge usage of plastic at micro and macro levels has become a major factor polluting the environment.

The oceans, huge rivers, lakes, ponds even well and drinkable water sources have been polluted due to the lack of civic sense and lack of information regarding the harmful effects of plastic usage. The environmental impacts proper evaluation is a need of the time and has become a controversial issue due to the merging of large scale micro plastic particles into the farming and food consumption. Ecological system is battling the menace of micro plastic heavily due to the complexity of microplastics as particulates. The ingest of microplastics in human organs and fellow living being has become a huge concern and cause of clogging and damaging of organs and inner tissues, their Eco toxicological impact due to associated chemicals.

The role of microplastic associated chemicals need to be assessed to evaluate the environmental impact of microplastics, the leaching chemical compounds used in in plastics formulation leads to a hazardous health and environmental effects due to the release of by-products originating from degradation of the polymers and the adsorption and desorption of the contaminants present in the environment. The hot beverages, cool drinks, consumable food items shall be avoided from packaging, even if it is permissible to use the microlevel plastic bags or bottles.

The food consumed through packed plastic carriers or served in plastics carriers should be avoided at all cost to avoid hormonal imbalance in the body. Now a days, the professionals, office goers, school kids and elders have become habituated to drink hot/warm water from plastic bottles, also the lunch carrier box made up of plastic should be avoided to avoid the harmful effects may occur due to leachate compounds.

The research is being carried out to learn the harmful effects and methods to minimise and recycle the plastic use effectively. Many educative and informative programs are in progress regarding the safe use of micro and macro plastic worldwide under the UNO, WHO, various NGO'S and governments. The powerful, developed and developing countries are gathering annually conducting conferences and summit to cooperate, find solution and to globally minimise the harmful effect of microplastic sorbants in environment.

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**\*Address for Correspondence:** Tarade Pawan, Department of Chemistry, Affiliated to Savitribai Phule Pune University, Pune, Maharashtra, India, E-mail: pawan.tarade@gmail.com

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