

## EFFECTS OF MOTOR VEHICLES AND MOTOR VEHICLES ON THE ENVIRONMENT

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### ANNOTATION

This article provides important information on the negative impact of car exhaust fumes on the environment and its consequences, as well as the prevention of greenhouse gas emissions.

**Keywords:** car, fuel, combustion, smoke, atmosphere, aerosol.

### INTRODUCTION

The scientific and technological revolution has ushered in a qualitatively new phase in the relationship between society and nature. This stage is characterized by the unprecedented use of available resources on the planet, which is very important for the development of natural resources. The scientific and technological revolution has created previously unknown technical and technological means. As a result of the revolution in science and technology, man has risen to a new level of freedom in his attitude to nature, as a result of which he has subdued many forces that were not previously subordinated to him.

The rapid development of science and technology has led to the expansion of the scope and mix of human exposure to nature, which has led to changes in the natural environment under the influence of anthropogenic factors. And these changes are destroying the material foundations of life. The environment that surrounds man, society is becoming unfit for life activities, threatening the death of our planet. The problem of survival; It has become the topic of the century and is in the spotlight of the world community. Not only is the pollution of the environment as a result of industrial processes an obvious threat to future generations, but it is already on the verge of social catastrophe.

When burning any fuel, various combustion wastes are released. These wastes have a significant impact on human health and the environment. Factories, plants and transport enterprises in the city are the main sources of environmental pollution. Road transport is now a source of more pollution than factories.

When using motor transport, there are 3 types of sources of environmental pollution: exhaust gases, crankcase gases and harmful substances formed as a result of fuel evaporation (from the fuel tank, carburetor, etc.).

One of the most pressing issues of our time is global climate change. Today, every country is feeling the effects of this process.

However, it should be borne in mind that road transport is the main source of air pollution. Every year, car exhausts contain millions of tons of toxic substances. Exhaust gases from the combustion of automobile engines contain more than 300 toxic compounds, 60% of which are released into the atmosphere in the form of aerosols, which is accounted for by vehicles.

The air we breathe - the layers that make up the atmosphere - each has a specific function. For example, the ozone layer protects all living organisms from radiation. Ozone, formed in the presence of oxygen, nitrogen oxides and other gases under the influence of sunlight, absorbs

strong ultraviolet rays and protects living organisms from its negative effects. Exhaust fumes from cars cause ozone depletion. According to experts, road transport tops the list of the main anthropogenic factors that pollute the air. In other words, 40 percent of the total damage is caused by cars moving on Earth. The remaining 20 percent will come from the energy industry, 14 percent from enterprises and organizations, 26 percent from agriculture, utilities and other sectors. That's why experts call the car a "chemical plant on wheels." In the most advanced countries of the world, environmental pollution is caused by emissions from car engines. In Japan, a traffic police officer has to change his oxygen mask every two hours due to the large number of cars. The emissions of car engines contain carbon monoxide, carbon dioxide, aldehydes, nitrogen oxides, and lead compounds, which not only damage the environment, but are also harmful to human health. Carbon monoxide binds to hemoglobin in the blood, reducing its ability to carry oxygen, while lead compounds pass into the body through the respiratory tract, causing serious damage to the cardiovascular system. One car uses 10-12 liters of gasoline a day and emits 25 kilograms of harmful chemicals into the atmosphere. A car that "works" for a year "contributes" to the loss of more than 4 tons of oxygen.

In addition, exhaust fumes from vehicles are equally harmful to flora and fauna, water and soil. Polluted air disrupts metabolism and energy in plants, leaving crops and fruit trees unproductive. Not only that, but carbon monoxide has been shown to have a negative effect on photosynthesis in nature.

In fact, carbon dioxide also has a role in the atmosphere. In other words, this substance, whose chemical formula is  $\text{CO}_2$ , regulates the temperature of the Earth, which can be symbolically called the bed of the planet. The proportion of carbon dioxide in the atmospheric air is 0.3 percent, but this is not a constant quantity but varies depending on the season. Scientists have found that the amount of carbon dioxide emitted by the human factor now averages more than 22 billion tons a year.

Exhaust gases include products such as harmless oxygen, carbon dioxide, nitrogen, and sulfur. However, nitrogen at high temperatures and under pressure forms nitric oxides, which are very toxic. Toxic products in exhaust gases are not always the same amount for many reasons. It depends on the type of engine, operating mode, level of adjustment, maintenance of the engine and the quality of fuel.

When you burn any fuel, different combustion wastes are released. These wastes have a major impact on human health and the environment. Factories, plants and transport enterprises in the city are the main sources of environmental pollution. The biggest problem right now is to reduce the toxic emissions from using the car.

When you burn any fuel, different combustion wastes are released. These wastes have a major impact on human health and the environment. Factories, plants and transport enterprises in the city are the main sources of environmental pollution. If factories and mills are located in a certain place and pollute the land, the cars will be affected where they work. Road transport is now considered to be more polluting to the environment than factories and mills.

The negative impact of harmful exhaust fumes from cars on the environment can now be understood by global climate change. We therefore believe that it is the duty of all human beings living at the same time to minimize the negative impact on nature and to prevent possible future changes in nature and the genetics of living things.

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