



# Chemically and syntactic pollution of the lithosphere.



## *How pollution occurs.*

The upper layer of the lithosphere, the soil, is subjected to the greatest pollution. The life of plants, animals and humans depends on the amount of fertile soil. The main sources of lithosphere pollution are:

Household waste;

Agriculture;

Industrial waste.

# *Landfills - a source of lithosphere pollution*

Wastes from various industries are the most toxic:


Metallurgical - heavy metal salts;

Mechanical engineering - cyanides;

Plastics production - phenol and benzene;

Rubber production - polymer clots, dust.





Agriculture pollutes the lithosphere by introducing mineral fertilizers and pesticides into the soil. About one million tons of pesticides are produced annually in the world. They all end up in the soil. This leads not only to its pollution, but also to a deterioration in the quality of the crops grown. Of the mineral fertilizers, the most dangerous are nitrate and phosphate fertilizers.



# Disposal of radioactive waste.

The most dangerous source of pollution is the disposal of radioactive waste. At nuclear power plants, about 98% of nuclear fuel is emitted as waste. They are buried deep in the ground in steel containers.





# Possible consequences.

The lithosphere cleans itself very slowly. This process is much slower than its pollution. Therefore, the consequences of lithosphere pollution are developing very quickly and may soon become irreversible. The amount of fertile land is gradually decreasing, which means that agriculture may decline. Pollution of forests and seas will lead to the extinction of animals and fish.



# What can be done?

Today, household waste is proposed to be destroyed by incineration over molten metal. It is believed that the release of toxic substances occurs to a lesser extent. The solution to the problem of recycling rubber tires is their recycling.

Radioactive waste is not buried, but stored in special containers in the form of nitric acid liquid. At the end of the container's service life, the radioactive liquid is placed in a new

# Everyone can help!

Everyone can help reduce lithosphere pollution. To do this, it is enough to place garbage in specially designated containers.

