**‘CHEMICAL CONTAMINANTS OF ENVIRONMENT AND ITS EFFECT ON HEALTH’**

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**---------------------------------------------------------------------------------------------------------------------Abstract-**

In the environment wide range of chemicals has contaminate our land, water and air and show impact on environment and human health. In these containments most are comes from industrial and commercial area like oil and chemical spills, roads, parking lots and storm drains like non point sources. The waste water treatment plants and sewage system also produces chemical containments in the environment. In the ecosystem food chain some containment entered by breakdown and accumulating. The containment accumulated by fish or any other wildlife has been eaten by human and thus it enters into the food chain system. The environmental pollution refers to unwanted or undesirable change in physical, chemical and biological characteristics of soil, water and air. These are harmful to the living organisms both plants and animals. The noise, heat or light are the chemical substance or energy form of pollution. A contaminate are enters into the body of human by four main route like inhalation, injection, ingestion and absorbed by the skin and eyes. A contaminate substance occurs by absorption via respiratory tract, and it absorbed into blood stream and distributed into throughout of body. The chemicals inhaled into the body in the form of vapors, mists, fumes, fine dust and as aerosols. The symptoms of this chemicals occur through inhalation include eyes, nose and throat irritation. It also shows the symptoms like coughing, headache, dizziness, difficulty in breathing, confusion and collapse.

The air borne particulate matter is not a single particle of pollutant; it is mixture of many chemical species. It has show complex mixture of aerosols composed of small droplets of liquid, dry solid fragments and mixture of solids, with solid cores with liquid coatings. This air borne particulate has varied in size, shape and chemical composition. It contains inorganic ions, metallic compounds, elemental carbon, organic compounds and earth crust compound from. It is defined by their diameter for air quality regulatory purposes. In the environment many pollutants has affect on human health and also cause different environmental problems like global warming, climate change and acid rain formation. The common surface water and ground water pollutants on lands are organic matter, bacteria, industrial waste, hydrocarbons, agrochemicals, pesticides and household products. The pollutants on the earth occur everywhere it can found in water that we drinks, it occur in air that we breathe and it also found in the food that we can it, these pollutant takes toll on our health. In the year 2015 pollution estimated about nine millions deaths worldwide it is three times more than AIDS, tuberculosis and malaria disease combined together. This type of dangerous effect of chemicals condiments occur on the human health.

**Keywords- Contaminate, Acid rain, Pollutant, Particulate matter and Food chain etc.**

**Introduction-**

The environment refers to the surrounding within which human exist. The environment consist land, water and atmosphere of earth. The earth consist microorganisms, plants and animal life. The combination of the first two items and inters relationship among it and physical, chemical and aesthetic cultural properties and condition of forgoing and influence human health and well-beings. The environment consist different spheres in which biosphere is very important sphere. This biosphere consist harbors the living organisms. In the sphere the living organisms interacts with each other and their nonliving environment like soil, water and air. In the modern day’s industrialization and globalization process has shown effect on environment and living life. The environment contaminated by different pollutants it shows impacts on health and environment.

The literature, pollution is defined as the introduction by man, directly or indirectly, of substances or energy into the environment. It resulted in such deleterious effects as harm to living resources, hazards to human health, hindrance to environmental activities. The contamination other hand it is presence of elevated concentrations of substances in the environment and natural background level for the area and for the organism. The potential health effect that may result from exposure to chemicals depends on a number of factors. The factors include the properties of the specific chemical, the dose and concentration of the chemical, the route of exposure, duration of exposure, individual susceptibility, and any other effects resulting from mixtures with other chemicals. The chemical pollution defined as the presence or increase in environment of chemical pollutants that not naturally present or found in amounts higher than its natural background values. The chemicals which containment the environment have man- made results different activities in which different chemicals used for various purposes. The chemical compounds are organic or inorganic it caused chemical pollution. The chemical pollutants are used across large areas and it is persistent not degrade easily in the nature. Its examples are insecticides, herbicides and pesticides it used in agriculture also the chlorinated solvents used in many industrial processes and dry cleaning activities. The chemical structure and contamination classified into natural occurring and man-made classification. The organic compound contains carbon and carbon-hydrogen bonds and an inorganic compound not contains carbons. The chemical brings benefits to society it releases during in lifecycle and cause harmful effect on ecosystem and human health. The chemical pollution has one of planetary boundary in which humanity safety operate. In the world more than 350,000 chemicals and its mixture registered for production and its uses. In which 50,000 chemicals are noteworthy finding that identities many chemicals remain publically unknown. In the year 2020 in global the pesticide usage has estimated to increase up to 3.5 million tones. It is beneficial for crop production point of views but it cause serious consequences because of their bio-magnification and persistent nature. This diverse pesticide directly or indirectly polluted soil, water, air and overall ecosystem and causes health effect on living things. The different pesticides used in global impacts on ecosystem. Today more than thousands pesticides used in the world, for ensure food which not destroyed by pests. The each pesticide has different toxicological effect and properties. Since 1950, more than 140,000 new chemicals have been synthesized, of which around 5,000 are now ubiquitous in the environment. The pesticides are substances or mixtures of substances that are mainly used in agriculture order to protect plants from pests, weeds or diseases, and humans from vector-borne diseases, such as malaria, dengue fever, and schistosomiasis. The pesticides has classified according to the type of pests like insects having insecticides, for the plants has herbicides, for the rat and mice pest used rodenticides, for the prevent of bacteria used bactericides and for the fungi fungicides and for larvae larvicides. According to food and agriculture organization (FAO) pesticide defined as any substance or mixture of substances intended for preventing, destroying or controlling any pest, including vectors of human or animal disease, unwanted species of plants or animals, causing harm during or otherwise interfering with the production, processing, storage, transport, or marketing of food, agricultural commodities, wood and wood products or animal feedstuffs, or substances that may be administered to animals for the control of insects, arachnids, or other pests in or on their bodies. In the world today about two millions tones pesticides used in which 47.5% are herbicides, 29.5% has been insecticides, 17.5% are fungicides and 5.5% are other pesticides. The pesticide has been [implicated](https://www.epa.gov/endocrine-disruption/what-endocrine-system) in human studies of leukemia, lymphoma and cancers of the brain, breasts, prostate, [testes](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6459699/%20) and [ovaries](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3052640/). The reproductive effect from pesticides includes [birth defects](https://www.nature.com/articles/s41467-017-00349-2), [still birth](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1128822/), [spontaneous abortion](https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(21)00682-6/fulltext), [sterility](https://www.waterboards.ca.gov/water_issues/programs/gama/docs/coc_dbcp.pdf%20) and [infertility](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7354731/). A substance is considered carcinogenic when there is evidence that it can cause cancer. There are many different types of cancer, but all of them can be characterized by the development of abnormal cells that begin to divide without control and spread into surrounding tissues. The single exposure events rarely cause cancer but repeated contact through ingestion or the eyes, skin or lungs with the carcinogenic substance, even at very low doses, can lead to cancer. [Immediate health effects](https://extension.psu.edu/potential-health-effects-of-pesticides) from pesticide exposure includes irritation of the nose, throat, and skin causing burning, stinging and itching as well as rashes and blisters. Nausea, dizziness and diarrhea are also common. [People with asthma may have very severe reactions](http://www.aaem.pl/INFLUENCE-OF-PESTICIDES-ON-RESPIRATORY-PATHOLOGY-A-LITERATURE-REVIEW,121899,0,2.html) to some pesticides, particularly pyrethrum, organophosphate and carbonate pesticides.

**Objectives-**

* To study the chemical potential of environmental contaminate
* To study the role chemical contaminate in the environment pollution
* To focus on chemical contaminate impacts on the human health
* To aware young generation about effect of different types of pollution in our life

**Analysis and Result-**

The chemical injection occur when the handling the chemical contaminated items like plastic, pipettes, broken glass, needles and razor blades. The chemical injected directly into bloodstream caused damage to tissue and organs. The chemical exposure through ingestion occurs by absorption of chemicals through digestive tract. The direct ingestion occur due to accidently eating or drinking of chemical it is likely occur. It mostly receive chemicals exposure occur indirect ingestion ways. The food or drink can then absorb chemical contaminants like vapors or dusts occur in the air and result in a chemical exposure when the food or drink is consumed. It also occurs due to food or drink is stored with chemicals, such as in a refrigerator. The ingestion also occur when a laboratory worker who handles chemicals without wearing the gloves. They not practice the good personal hygiene, like frequent hand washing, and then leave the laboratory to eat, drink. In every place the chemical exposure can result, although the effects of chronic exposure may not manifest itself until years later. The chemical exposure through ingestion include symptoms like metallic or other strange tastes in the mouth, stomach discomfort, vomiting, problems swallowing, and a general ill feeling. The chemicals also absorbed by the eye and skins also results chemical exposure, it results the chemical splash to unprotected eyes and skins. The chemical absorbed any organ enters into blood stream and causes other damages. The chemicals exposure by eyes shows effects like itchy, burring sensations, discomfort, blurred vision and blindness. The protection of eyes from chemical exposure has been done by the wearing the safety glasses in laboratory and chemicals hazards places. The use of a face shield, in combination with splash goggles is the best choice for protection. The environment contains different containments which has shows effect on health the some important chemical containments are as follows.

* **Airborne particulate matter:-**

The air borne particulate matter is not a single particle of pollutant; it is mixture of many chemical species. It has show complex mixture of aerosols composed of small droplets of liquid, dry solid fragments and mixture of solids, with solid cores with liquid coatings. This air borne particulate has varied in size, shape and chemical composition. It contains inorganic ions, metallic compounds, elemental carbon, organic compounds and earth crust compound from. It is defined by their diameter for air quality regulatory purposes. In the environment many pollutants has affect on human health and also cause different environmental problems like global warming, climate change and acid rain formation. The particles having ten microns or less are inhaled by the lungs and induce adverse health effect. The particles having 2.5 microns or less in diameters are emitted in atmosphere by chemical reaction of gases like sulfur dioxide (SO2), nitrogen oxides (NOX), and certain organic compounds. These organic compounds can be emitted by both natural sources, such as trees and vegetation, as well as from man-made sources, such as industrial processes and motor vehicle exhaust. The particles indoor sources are pollen grains, mold spores, dust mites and cockroaches. The human indoor activity also produces particles like smoking of tobacco, coking and burning woods, candles and incense. The particles form indoor shows complex reaction of gases pollutant emitted from household cleaning products like air fresheners. A tiny solid piece of matter has given the general name as particle. The natural sources include soils, plants, fires and road dusts. The human made sources includes power plant, tobacco smoke, car exhaust, wood stoves, oil burners and burning of candles. The mechanical force dust like grinding dust and household dust like small insect’s parts, fibrous binding materials, and pollen and mold spore as source of particles.

The inhalation involves airborne contaminants that can be inhaled directly into the lungs through the nose or mouth. These contaminants include dusts, mists, fumes, vapors and gas. The inhalation is the most common route of entry a chemical can take to enter the body. In prevent use protective equipment that provides protection from airborne contaminants includes respirators or masks appropriate for the specific contaminant. The process absorption involves hazardous chemicals that are absorbed through direct contact with the skin or eyes. These chemicals can include particulates, liquids, gases and vapors. The absorption prevents through the skin and eyes can be prevented with the use of appropriately selected gowns, gloves, work clothing, personal protective equipment that covers the eyes, such as full face masks, safety glasses with side shields, and face shields, appropriate for the specific contaminants. In some instances a hazard suit with full head mask is appropriate. The ingestion involves hazardous chemicals that enter the body through the mouth. It include chemical dusts, particles and mists that are inhaled through the mouth and swallowed or which have contaminated objects, like hands, food and cigarettes, that come in contact with the mouth. The health effects can range from none at all to very serious. The allergic symptoms and signs include nasal discharge, difficulty breathing, coughing, runny eyes, throat irritation, rashes, and headaches. In severe allergic reactions, death can occur. The asthmatic episodes may occur in some people with asthma.

The particles like silica, asbestos fibers, and coal dust cause permanent lung damage. It shows the symptoms and signs like coughing, chronic shortness of breath, and fatigue. It inhaled in high enough doses, lead dust can be a major source of lead poisoning in adults who engage in certain activities such as painting and building renovation. It can cause high blood pressure, decreased hearing, reproductive problems, and even death. The tobacco smoke, which contains numerous toxic materials in particulate form, can cause chronic obstructive pulmonary disease as emphysema and lung cancer.

The good hygiene practices are important in preventing products from being ingested. In areas where harmful chemicals are handled, eating and smoking should not be allowed. The injection may occur through the misuse of syringe needles or through accidents with broken glass or other sharp objects that have been contaminated with chemicals. Injections can also occur through high pressure streams of liquids or gases. The injection can prevented by cautious use of any sharp object is important. The knowing proper storage, handling and disposal procedures when using syringe needles, glassware or other potentially sharp objects. The wearing gloves and other protective clothing may also reduce the possibility of injection.

* **Arsenic:-**

The arsenic is natural element found in the rocks, soil in well water. It comes due to human activity and used in consumer products like metal alloys, paint pigments and wood preservative. The arsenic also occur in pencils and school bags, it is dangerous to health because it causes the cancer in human. The arsenic also causes skin dark, corns or warts on the torso, palms, or soles of the feet. Arsenic can affect how babies develop before and after they are born. It can also affect these systems and organs in the body: Nervous system, Respiratory system, cardiovascular system, Immune system, Endocrine system, Liver, Kidney, Bladder, Prostate and Skin

Children may be more susceptible to arsenic’s health effects. This is because children eat more food per body weight and can get a higher dose of arsenic from their diet than adults. Babies can come in contact with arsenic by eating rice cereal. Rice takes up arsenic as it grows more easily than other food crops. Because of this, the Food and Drug Administration recommends feeding babies a variety of infant cereals. This will help limit the amount of rice cereal babies eat.

* **Benzene:-**

It is the name of an aromatic hydrocarbon, C6H6. In liquid form, benzene is clear, colorless, and flammable. At room temperature, liquid benzene evaporates easily into the air and can dissolve in water. In the environment, benzene may be present in air, water, and soil. It is also a naturally occurring product of decomposition in some foods. Half of the benzene a person inhales is then exhaled. The rest is temporarily stored in the body’s bone marrow and fat. The liver and bone marrow break benzene down into metabolites (the products of physical or chemical processes in the body). Some of these metabolites, such as hydroquinone, are more toxic than benzene. The metabolites are then eliminated from the body after about two days. Benzene is a carcinogen. While many chemicals are suspected to be cancer-causing, benzene is one of the few substances; Benzene can cause neurological damage and can harm the immune system. Long-term exposure to benzene fumes can cause nerve damage.

* **Xylene and Formaldehyde:-**

It is short term of high level benzene it related with aromatic hydrocarbons like toluene and xylene, it causes nausea, headaches, dizziness and unconsciousness. The immune system also harmed by the excessive exposure of benzene. At the room temperature level the colorless gas formaldehyde has also given notable smell because it is volatile organic compound. It is found in the many household products. The formaldehyde is volatile organic compound also known as methylene oxide, oxo-methene oxide and formalin. When it comes in contact the eyes can irritate, with nose and throat, it also shows symptoms like headache, dizziness and fatigue. It also causes the serious disease like cancer.

* **Volatile organic compounds:-**

The man made material carpets has made by the synthetic martial, wool and other natural materials. The carpets have two parts cushion for support and noise reduction and other carpet itself. The synthetic carpets are tufted and made by machines it stitches and loop yarn and attach to a backing. The polyester and nylon has made yarn, the backed yarn attached to another backing with latex products. The second backing of yarn help the carpet more stable, the some carpets has emits the volatile organic compound. This volatile organic compound effect on health like nausea, headaches, breathing difficulty and irritate eyes with nose and throat. It also causes allergies due to dust the woodstove ashes, wall to wall carpeting increases children’s inhalation exposure. The dry cleaners use for cloths and fabrics cleaning it not disposed so move to ground to air and breathed in body it can produce harmful affect to health, it also increase risk of cancer. It also affects pregnant women and small babies. It affect on central nervous system and immune system.

The volatile organic compound contains carbon and also evaporates gas at room temperature. The benzene, methylene, hexane, chlorides, styrene, perchloroethylene and toluene like some examples of volatile organic compound. The household products like cleansers, wax, glues, cosmetics, paints, varnishes, kerosene, gasoline, pesticides and cigarette smokes contains the volatile organic compound. The new carpets draperies, gum used wood products and backing certain finishes, vinyl type flooring and wall covering releases the volatile organic compound into the air. This volatile organic compound causes irritation to the eyes, nose, and throat, the headaches, nausea, and nerve

* **Mercury**:-

The mercury is natural element found in three different forms in the nature. It found as metallic or element form it used in thermometers, switches, jewelry, batteries, dental filling and in the cosmetics, it also found household items also. It occur inorganic form in cosmetics and different consumer products. The third form is organic it occur in food like containment fishes and shellfish.

The breathing of metallic mercury vapors affects on lungs, brain, kidney and nervous system. The contacted person shows the symptoms like difficulty in breathing, coughing, vomiting, chest pains, nausea, diarrhea and fever. A sometimes symptom includes headache, loss of appetite, weight loss, short term memory loss and irritability. The time and amount shows the health effects power.

* **Ozone:-**

The ozone gas is natural part of atmosphere; itis a colorless gas with a noticeable smell. It creates smog in environment and produce air pollution. In the atmosphere it protect from the effect of harmful sun rays. But the lower level towards the earth it is form breathing problem it damage lung and irritate the throats. The ozone effect shows wheezing, congestion, coughing, shortness of breath, chest pain, bronchitis, heart diseases and emphysema in human. The children are more breath so highly affected.

* **Polychlorinated biphenyls**:-

In the 1980 this compound used in building material and electric equipments. The paint, glue, lighting ballasts, fluorescent, transformers and capacitors, caulk contains the polychlorinated biphenyls. After this period it is banned in some countries, the exposure of polychlorinated biphenyls shows effect on health. The polychlorinated biphenyls produce cancer, because it classified as carcinogens, it is interconnected means it affected one system of body but significantly affect to other system and lead to many serious health problems. The immune system is critical for fighting infections. Diseases of the immune, can suppress the immune system, which can lead to other health problems. It also can lead to decreased birth weight and cause babies to be born too early. The polychlorinated biphenyls affect thyroid hormone levels in humans. The thyroid hormone levels are critical for normal growth and development, and can have significant health effects if levels are altered.

* **Glyphosate and pesticides:-**

It is chemical compound which targets the weed and important in fruit and vegetable production and nuts. It is also resistant to crop like soybean and corns, it also manage noxious weeds. It breakdown in environment it reduce the soil erosion and useful for integrated pest management. It is used as liquid concentrate, solid and ready to use as liquid. The glyphosate container likes round up which control the weeds of agricultural and non agricultural field. It also used in aerial spraying, ground spraying, shielded and hooded sprayers, wiper applicators, injection system and controlled droplet application system.

The chronic health effect not occur in the week and months, it taken many months and years time after exposure of pesticide to link with health impacts. It includes cancer of tumors, brain and nervous system, it damage liver, kidney and lungs like organs and defects infertility and other reproductive system related problem. In endocrine disruptors it shows blocking of hormones, sterility and developmental problems.

* **Organophosphates & Carbamates:**-

[These pesticides are like nerve gas](https://emergency.cdc.gov/agent/nerve/tsd.asp): they attack the brain and nervous system, [interfering with nerve signal transmission](https://www.epa.gov/sites/production/files/documents/rmpp_6thed_ch5_organophosphates.pdf%20). [Symptoms](https://www.epa.gov/sites/production/files/documents/rmpp_6thed_ch6_carbamates.pdf%20) [include](https://www.epa.gov/sites/production/files/documents/rmpp_6thed_ch5_organophosphates.pdf%20) headaches, nausea, dizziness, vomiting, chest pain, diarrhea, muscle pain and confusion. In severe poisoning incidents, symptoms can include convulsions, difficulty breathing, involuntary urination, coma and death. Acute poisoning of the nervous system by these pesticides affects hundreds of thousands of people around the world [each year](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3217786/).

* **Soil Fumigants:-**

The soil fumigants pesticides are applied to soil it forms gas it is toxic for fungi, bacteria, nematodes, insects and plants in the soil. The formed gas of pesticide move from the soil into the air and expose people living and working near by it. The commonly used soil fumigants are 1, 3-dichloropropene, chlorpicrin, metam sodium, and metam potassium. The fumigant exposure shows symptoms like irritation of skin, eyes, and lungs, and extremely irritating to eyes and lungs. The dichloropropene, metam sodium, and metam potassium are all [cancer causing chemicals](https://www.cdpr.ca.gov/docs/dept/factshts/prop_65_list.pdf) and metam sodium [causes reproductive harm](https://www.cdpr.ca.gov/docs/dept/factshts/prop_65_list.pdf).

* **Pyrethroids:-**

**It is the synthetic chemical but shows the similar structure of botanical compounds insecticides. It has toxic for the nervous system**. The pyrethroid symptoms of poisoning include tremors, salivation, headache, fatigue, vomiting, stinging and itching skin, and involuntary twitching. The term endocrine disruptor refers to substances that interfere with hormones and hormone balance. Hormones are the chemical messengers of the body. They are necessary to regulate different functions, in particular growth and reproductive functions. It reduced semen quality with consequent decreased fertility, genital malformations, testicular and prostate cancer. The early puberty, appearance of cysts in the ovaries, uterus anomalies, breast cancer, pregnancy complications with early abortions, decreased fertility, diabetes and obesity, neurological disorders, especially disorders in brain development, and degenerative diseases in the brain, like Parkinson’s disease and thyroid.

## Combined effects:-

It is also one of worried issue related to exposure of pesticides, it affects the individual chemical enhanced when combined with other substances, and it is also called as cocktail effect. The exposed cocktail effect of chemicals and the fact is that nobody knows what impact this consistent low level exposure to such a mixture of chemicals is having on us. In the year 1939, Paul Müller discovered the effective insecticide Dichloro-Diphenyl-Trichloroethane (DDT) was discovered, which has become extremely effective and rapidly used as the insecticide in the world. After the twenty years later, due to biological effects and human safety, DDT has been banned in almost hundred countries. The human has used pesticides form 2500 B.C.E. to prevent damage to their crops. The first known pesticide was elemental [sulfur](https://www.newworldencyclopedia.org/entry/Sulfur) dusting used in Sumeria about 4,500 years ago. In 15th century, toxic chemicals such as [arsenic](https://www.newworldencyclopedia.org/entry/Arsenic), [mercury](https://www.newworldencyclopedia.org/entry/Mercury_(element)) and [lead](https://www.newworldencyclopedia.org/entry/Lead) were being applied to crops to kill the pests. In 17th century, nicotine [sulfate](https://www.newworldencyclopedia.org/entry/Sulfate) was extracted from [tobacco](https://www.newworldencyclopedia.org/entry/Tobacco) leaves for use as an insecticide. The 19th century saw the introduction of two more natural pesticides, pyrethrum which is derived from [chrysanthemums](https://www.newworldencyclopedia.org/entry/Chrysanthemum), and rotenone which is derived from the roots of tropical vegetables. The author [Rachel Carson](https://www.newworldencyclopedia.org/entry/Rachel_Carson) wrote the best-selling book ‘Silent Spring’ on biological magnification and it opens the eyes of world about the pesticides use.

**Conclusion-**

The environment having different types of condiments, it found in water which we can drink, it found in food which can we eat and it also found in the air which we can breathe everywhere in environment it found and they are taking toll on our health. In the year 2015 pollution estimated about nine millions deaths worldwide it is three times more than AIDS, tuberculosis and malaria disease combined together. This type of dangerous effect of chemicals condiments occur on the human health. In the unborn babies and children are especially vulnerable to effect of the methyl mercury, it also accumulated by fishes and other sea foods and can cause intellectual disability and vision and hearing losses. The mercury, lead and air pollution are also found throughout the environment. They are among ten pollutants highlighted by the World Health Organization as chemicals that pose a considerable threat to public health. The many neurological problems that cause, for which treatment is often lacking are especially concerning. In the past decade, there is steady increase in the incidence of neurological disorders, and a great deal of these brain problems linked to exposure to different pollutants. In the world 783 million people not access clean drinking water and about 2.5 billion people not having adequate sanitation facilities. The adequate sanitation helps to keep sewage and other contaminants from entering the water supply.

The air pollution also shows the dangerous gases like sulfur dioxide, carbon monoxide, nitrogen oxides and chemical vapors. It again participated in the chemical reactions once they are in the atmosphere, creating acid rain and smog. The sources of air pollution can come from within buildings, such as secondhand smoke. The air pollution also occurs from greenhouse gases, such as carbon dioxide or sulfur dioxide, which are warming the planet through the greenhouse effect. The noise pollution has direct links between noise and health, including stress-related illnesses, high blood pressure, speech interference, hearing loss. The noise pollution may also contribute to hundreds of thousands of deaths per year by increasing the rates of coronary heart disease. The air pollution has shows seven million premature deaths annually. In environment agriculture land also turned unfertilized lands due to the agriculture pollution. The land filled by plastic articles caused plastic pollution. These all types of pollution occurs by the different types of chemical effect in the environment it also show harmful effect on human health and increase the deaths from different serious diseases.

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