

**Measure we can take to protect from Persistent organic pollutant**

- Control release of POPs in to the environment
- Protect from exposure to POPs
- Awareness and be alert about Persistent organic pollutant

**To ensue above measures**

- Stop burning of waste and shift like environment friendly waste management methods like recycling
- Use domestic degradable waste to produce compost within your home garden



- Follow correct precautions when using pesticides and prevent from disposing them inappropriately to the open environment



- Wear protective cloths in industries like Artificial rubber, paints and filler production to protect from body contacts
- Prevent disposing paints and filler waste in to open environment at domestic level and from industries

- Don't use disposed transformer oil for welding plants
- Wear protective cloths in using and repairing welding plants
- Stop oil leaking from welding plant
- Don't dispose used transformer oil in to the open environment



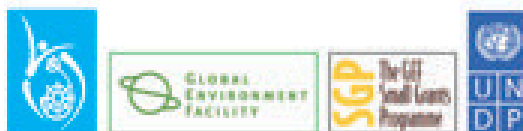
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**POPs**

**Persistent organic pollutants**  
**Deadly**  
**Hazardous !**



Implementing by  
**PEOPLE TO PEOPLE VOLUNTEERS**

## Introduction

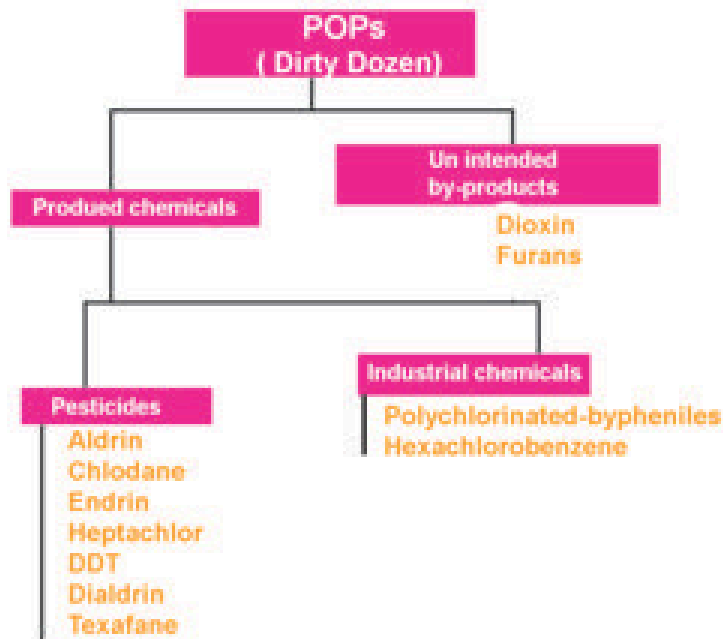
Entire Biosphere is facing to various environmental problems as a result of indiscriminate human activities

Humans and environment has threaten by Persistent Organic Pollutants and they are spreading in the environment rapidly

### Persistent Organic Pollutants are

Organic chemical compounds that remain in the environment for long time without degrading and causing health damages to human and other living beings

12 such chemicals have been identified and named as Dirty Dozen



### Persistent Organic Polutants; Common characters

- Ability to persist in the environment for long time
- Ability to transfer long distance in the air
- Low water solubility and higher fat solubility
- Concentrate along food chains
- Highly toxic even with minute concentrates

### Methods of releasing POPs chemicals in to the environment

#### 1. POPs in pesticides

- Leakages from industries, transport and day to day using
- Spraying for pest control

#### 2. Diaxin and Furans

- Un controlled fires
- Fossil fuel combustion
- Iron and some other metal production process
- Mineral production
- Burning of polythene and plastics
- Energy and heat production

#### 3. Polychlorinatedbyphenyles (PCB)

- Using discarded Transformer oil for welding plants
- Touching coolant oils in welding plants
- Disposing PCB contaminated oil to the environment from welding plants and transformers
- Inproper disposing of used oil

#### 4. Hexachlorobencene

- Byproducts of industries like artificial rubber and fireworks, paints and filler

### Routes of entries for Persistent Organic Pollutants

#### Digestion

- Drinking POPs contaminated water
- Consuming POPs contaminated milk, eggs, meat or vegetables
- Taking foods or drinks while pesticide handling

#### Through respiration

- Inhaling polluted air
- During pesticide spraying

#### Dermal contact

- Using polluted water
- During agricultural operations like pesticide spraying, harvesting
- using industrial chemicals, painting and filler coating

#### From mother to child

- To unborn fetus and by milking

### Impacts of Persistent Organic Pollutants to the environment and living beings

- Pollution of resource bases like water, soil and air
- Threaten of species like aquatic mammals and birds due to heavy exposure to POPs
- Destroying of beneficial species in the soil (earth worms)
- Destroying of beneficial species contribute to pollination
- Impact on Human Health
  - Dermal diseases
  - Liver disorders
  - Respiratory problems
  - Weight loss
  - Weakness
  - Endocrine and neuro system disorders
  - Reproductive system disorders
  - Infertility/sub fertility
  - Delayed fertility
  - Immure system malfunctions
  - Aging
  - Censers