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International Campaign for Justice in Bhopal



# 7 STEPS TO GETTING PROPER COMPENSATION

from

**UNION  
CARBIDE**

and

**DOW**



On 3 December 20

**STOP THE**  
**TRAINS**

From today join yo  
neighbours and oth

1



## **We are all being poisoned**

### **Our fight is for your children as well as ours**

From April 2008 to March 2009, the Ministry of Agriculture worked with the Indian Agriculture Research Institute on an all-India research programme monitoring pesticide residues in food.

Samples of vegetables, fruits, spices, pulses, cereals, milk and milk products, fish, tea, honey, meat, animal feed and ground water were collected in different parts of the country and analysed at 20 participating laboratories in different regions\*.

Here are the results. Here's what's in our food and your food, in our bodies and in your body, in our children and in yours.

### **Here's what's in your food and ours**

Sample	Commodity	Toxic residues above maximum permitted limit
1	Cauliflower	Chlorpyrifos, Cypermethrin
2	Okra	Monocrotophos, Chlorpyrifos & Cypermethrin
3	Cabbage	Chlorpyrifos, Monocrotophos & Cypermethrin
4	Brinjal	Aldrin, Heptachlor & Cypermethrin
5	Apple	Aldrin , Chlordane & Cyfluthrin-Beta
6	Banana	Aldrin & Chlordane
7	Orange	Monocrotophos & Dichlorvos
8	Grapes	Cypermethrin
9	Rice	Quinalphos, Chlorpyrifos, DDVP & Heptachlor
10	Wheat	Triazophos, Fenitrothion, Phorate & Chlorpyrifos
11	Fish	Endosulfan-T
12	Milk & Butter	HCH-isomers, Aldrin, Heptachlor & Endosulfan-T
13	Poultry	Chlorpyrifos, Endosulfan-T & Lindane
14	Pork	Endosulfan-T & Cypermethrin
15	Cardamom	Quinalphos & Dichlorvos
16	Tea	Fenpropathrin
17	Ground water	Alachlor, Pendimethalin & Parathion- ME

CLICK ON CHART TO ENLARGE

### And here's what it does to us

1. **Chlorpyrifos** – organophosphate insecticide linked to myocarditis, ADHD, lung cancer, exposure in the womb is linked to delayed mental and motor development, memory loss and neurodegenerative disorders.
2. **Cypermethrin** – synthetic pyrethroid insecticide causes nausea, headache, muscle weakness, salivation, shortness of breath and seizures.
3. **Monocrotophos** – organophosphate insecticide acutely toxic to birds and humans, banned in

many countries including the US. Produces birth defects, paralysis in children. Severe poisoning will affect the central nervous system, producing inco-ordination, slurred speech, loss of reflexes, weakness, fatigue, involuntary muscle contractions, twitching, tremors of the tongue or eyelids and eventually paralysis of body extremities and respiratory muscles. There may be involuntary defecation or urination, psychosis, irregular heart beat, unconsciousness, convulsions and coma. Ingesting 120 mg of monocrotophos can be fatal.

4. **Aldrin** – an organophosphate insecticide banned in most countries. Causes liver damage and liver cancer, headache, dizziness, irritability, loss of appetite, nausea, muscle twitching, convulsions, and loss of consciousness; death may occur at extremely high exposures or doses.

5. **Heptachlor** – organophosphate insecticide that persists in the environment and in the body for decades. Damages the nervous system and immune function and is classed as a ‘possible human carcinogen’. Passed to infants in breast milk.

6. **Chlordane** – organochlorine pesticide. Health effects include testicular cancer, prostate cancer, cancers of the breast, brain and blood cells (leukemia), migraines, respiratory infections, diabetes, anxiety, depression, and compromised immune system.

7. **Dichlorvos (DDVP)** – highly volatile organophosphate insecticide causes weakness, headache, tightness in chest, blurred vision, salivation, sweating, nausea, vomiting, diarrhoea, abdominal cramps and genetic damage.

8. **Quinalphos** – organophosphate pesticide causing runny nose, teary eyes, sweating, salivation, weakness, agitation, disorientation, sneezing, drooling, bronchospasm, breathing difficulties, fatigue, tremors, incoordination, twitching muscles, dizziness, headache, nausea, vomiting, diarrhoea, abdominal cramps, tight chest, wheezing, fluid in lungs, productive cough, breathlessness, pinpoint pupils, blurred vision, incontinence, abnormal heart rhythms, seizures and unconsciousness.

9. **Triazophos** – neonicotinoid neurotoxin causing excessive sweating, salivation and lachrimation, nausea, vomiting, diarrhoea, abdominal cramp, general weakness, headache, poor concentration and tremors. In serious cases, respiratory failure and death. Linked to farm suicides.

10. **Fenitrothion** – organophosphate insecticide can cause cholinesterase inhibition in humans, it can overstimulate the nervous system causing nausea, dizziness, confusion, respiratory paralysis and death.

11. **Phorate** – organophosphate insecticide and acaricide, causing vomiting, foaming at the mouth, dizziness, blurred vision, breathlessness and suffocation, unconsciousness, linked to a number of mass poisonings in India.

12. **Endosulfan-T** – organochlorine insecticide and acaricide that is being phased out globally, an endocrine disruptor, causing hyperactivity, tremors, convulsions, lack of coordination, staggering, difficulty breathing, nausea and vomiting, diarrhoea, and in severe cases, unconsciousness, brain damage and death.

13. **Lindane and HCH-isomers** – group of organic halides implicated in blood disorders, dizziness, headaches, and possible changes in the levels of sex hormones in the blood, liver and kidney damage, convulsions, cancers, teratogenic effects, particularly dangerous to children. These chemicals are stored in the body fat.

14. **Fenpropathrin** -cyano-pyrethroid causing irritation of skin and eyes, irritability to sound or touch, abnormal facial sensation, sensation of prickling, tingling or creeping on skin, numbness, headache, dizziness, nausea, vomiting, diarrhoea, excessive salivation, fatigue, fluid in the lungs, muscle twitching and seizures.

15. **Alachlor** – a herbicide from the chloroacetanilide family banned in the European Union. It is linked to skin and eye irritation, damage to liver, kidney, spleen, lining of nose and eyelids and cancer.

16. **Pendimethalin** – herbicide implicated in rectal cancer, damage to reproductive system, liver and kidneys.

17. **Parathion-ME** – highly toxic organophosphate insecticide causing headaches, convulsions, poor vision, vomiting, abdominal pain, severe diarrhoea, unconsciousness, tremor, dyspnea, pulmonary-oedema, respiratory arrest, paralysis, cerebral hypoxia and permanent brain damage. It is toxic to foetuses and has been used in warfare as a chemical weapon.

## **Illnesses and chemicals found in Bhopali bodies**

**Anorexia, weight loss** (chlorinated benzenes, sevin)

**Blood disorders – lower production of red and white blood cells, anaemia** (chlorinated benzenes, lead, arsenic)

**Blood pressure – elevated** (lead)

**Bone problems** (hexachlorobenzenes, cadmium)

**Brain damage** (lead, arsenic)

**Cancer – including breast and lung** (chromium, arsenic, benzene hexachloride, lindane and alpha, )

**Central nervous system disruption** (sevin, chlorinated benzenes, aldicarb, lead, mercury, cadmium)

**Chromosomal disorders – abnormal number of chromosomes or structural abnormalities** (chlorinated benzenes)

**Convulsions** (sevin)

**Diarrhoea and constipation** (sevin, lead, cadmium)

**DNA impairment** (cadmium)

**Endocrine disruption – chemicals act like hormones disrupting natural hormones, causing low fertility, abnormal male/female ratios, miscarriages, menstrual problems, behaviour problems, immune system damage and cancers.** (lindane, cadmium, lead, arsenic, mercury, aldicarb)

**Excessive salivation** (sevin)

**Eye irritation, photo sensitivity and pinpoint pupils** (sevin, chlorinated benzenes)

**Skin lesions and problems like severe sweating** (chlorinated benzenes, hexachlorobenzene, chromium, arsenic)

**Gastric problems** (sevin, lead, arsenic, cadmium)

**Hair loss** (hexachlorobenzene)

**Heart disruptions** (arsenic)

**Hepatotoxicity – liver damage caused by chemicals and drugs** (chlorinated benzenes, benzene hexachloride, lead, mercury, cadmium, sevin)

**Learning disorders in children** – hyperactivity, behaviour problems, increased excitability (lead, mercury)

**Loss of coordination** (lead)

**Lymphatic system damage** (arsenic)

**Muscle problems including weakness, twitching, tremors and cramping** (sevin, lead, mercury)

**Nasal discharge** (sevin)

**Nausea and vomiting** (chlorinated benzenes, sevin, lead, cadmium)

**Neurotoxicity – loss of memory, vision loss, intellectual damage, obsessive-compulsive type conditions, delusions, headaches, sexual dysfunction and brain disorders** (lindane, chlorinated benzenes, sevin, lead, mercury, arsenic)

**Oedema – accumulation of fluids under the skin or in other body areas** (chromium)

**Pharynx and larynx problems** (chromium)

**Psychological problems including depression, stupor, personality changes, malaise** (sevin, lead, mercury)

**Respiratory complaints – deep respiratory tract irritation, asthmatic bronchitis, broncho-spasms, shortness of breath** (chlorinated benzenes, chromium, arsenic)

**Sleep disorders** (lead)

**Slurred speech** (sevin, lead)

**Teratogenic effects – chemicals cross into the placenta to affect the foetus** (chlorinated benzenes 1,4, hexachloro-benzene, aldicarb, lead)

**Thyroid damage** (dichloride- and hexachloro-benzenes)

## **Trespass Against Us**

*“The Dow Chemical Company has been trespassing on private property (our bodies) for decades and getting away with it. The trespass is harmful and toxic. The transgressors are man-made chemicals, more than 100,000 of which have been “invented” and let loose in the world since the 1930s.*

*“Many of these chemicals are toxic to life and have been doing harm for years, insinuating themselves into blood, body tissue, sperm and egg. ‘Body burdens’ of toxic chemicals are now being measured in humans and wildlife all over the globe.*

*“The result is not a pretty picture: cancers, birth defects, poisoned workers and polluted communities. The guilty party in these transgressions, has not been brought to account and has not been stopped. To this day ‘toxic trespass’ continues and it is poisoning all of us.”*

(Excerpt from [“Trespass Against Us” by Jack Doyle](#) Get the book from flipkart.com)

### **\*List of participating laboratories**

1. Anand Agricultural University, Anand, Gujarat
2. Bidhan Chandra Krishi Viswa Vidyalaya, Kalyani, West Bengal
3. Kerala Agricultural University, Vellayani, Kerala
4. Punjab Agricultural University, Ludhiana, Punjab
5. Tamil Nadu Agricultural University, Tamil Nadu
6. The Marine Products Export Development Authority, Kochi, Kerala
7. Regional Plant Quarantine Station, Mumbai, Maharashtra
8. Dr. Y S Parmar University of Horticulture and Apiculture, Solan, Himachal Pradesh
9. Indian Institute of Horticulture Research, Bangalore, Karnataka
10. Institute of Pesticide Formulation Technology, Gurgaon, Haryana
11. Rajasthan Agricultural University, Jaipur, Rajasthan
12. National Institute of Occupational Health, Ahmedabad, Gujarat
13. Western Regional Referral Laboratory, Mumbai, Maharashtra
14. Indian Institute of Toxicological Research, Lucknow, Uttar Pradesh
15. Acharya NG.Ranga Agricultural University, Hyderabad, Andhra Pradesh
16. Mahatma Phule Krishi Vidyapeeth, Rahuri, Maharashtra
17. Regional Plant Quarantine Station, Chennai, Tamil Nadu

18. Project Coordinating Cell, AINPPR, IARI, New Delhi
19. National Environmental Engineering Institute, Nagpur, Maharashtra
20. Central Pollution Control Board, Delhi