

# Health Effects of Water Pollutants

Multipure Drinking Water Systems reduce a wide range of contaminants of health concern plus chlorine, chloramine and particulate matter. Below is a summary of the tested contaminants and their noted health effects. Please check the Performance Data Sheet for specific claims for your model.

## Contaminants Reduced by Multipure Drinking Water Systems

CONTAMINANT	HEALTH EFFECTS
<b>ARSENIC RULE</b>	
Arsenic V *	Cancer risk/cardiovascular and dermal effects
<b>PESTICIDES</b>	
2,4-D**	Nervous system, Liver and kidney damage
Carbofuran (Furadan)**	Nervous system, kidney, reproductive system, and liver damage; anemia, leukemia
Chlordane	Nervous system and muscle damage; cancer
cis-1,3-Dichloropropylene**	Bladder and kidney damage
Endrin**	Nervous system, kidney, liver, heart damage; anemia, cancer
Heptachlor**	Cancer
Heptachlor Epoxide**	Cancer
Lindane**	Nervous system, liver, kidney damage
Methoxychlor**	Nervous system, kidney, liver damage; anemia, cancer
Toxaphene	Endocrine Disruptor, cancer
<b>HERBICIDES</b>	
Alachlor**	Cancer; nervous system damage
Atrazine**	Cancer; nervous system and mammary glands damage
Dinoseb**	Thyroid, reproductive organ damage
Pentachlorophenol**	Liver and kidney damage; cancer
2,4,5-TP (Silvex)**	Nervous system, liver, and kidney damage; cancer
Simazine**	Nervous system damage; cancer
<b>CHEMICALS</b>	
Benzene**	Cancer, leukemia, and anemia
Carbon Tetrachloride**	Cancer
Chlorobenzene (Monochlorobenzene)**	Nervous system, kidney, liver damage
DBCP (Dibromochloropropane)**	Reproductive system damage; cancer
o-Dichlorobenzene**	Cancer, Kidney, liver, and lung damage
p-Dichlorobenzene (para-Dichlorobenzene)**	Cancer
1,2-Dichloroethane (1,2-DCA)**	Cancer
trans-1,2-Dichloroethylene**	Liver, kidney, nervous, circulatory system damage
1,1-Dichloroethylene (1,1-DCE)**	Cancer, kidney, and liver damage
cis 1,2-Dichloroethylene**	Liver, kidney, nervous & circulatory system damage
1,2-Dichloropropane**	Nervous system, kidney, and liver damage
Ethylbenzene**	Nervous system, liver, and kidney damage
EDB (Ethylene Dibromide)**	Reproductive and other organ damage
Hexachlorobutadiene (Perchlorobutadiene)**	Pending study

\* Only Multipure's Aquaperform( MP880 Series) and Aquacomplete (RO) reduce Arsenic V (Continued on next page)

## CONTAMINANT

## HEALTH EFFECTS

<p>Hexachlorocyclopentadiene**  meta-Xylene**  Methyl Tert Butyl Ether (MTBE)  o-Xylene (Ortho-Xylene)**  para-Xylene **  Polychlorinated biphenyls (PCBs)  Styrene**  1,1,2,2-Tetrachloroethane**  Tetrachloroethylene**  Toluene (Methylbenzene)**  1,2,4-Trichlorobenzene**  1,1,1-Trichloroethane (1,1,1-TCA)**  1,1,2-Trichloroethane**  Trichloroethylene (TCE)**</p>	<p>Kidney and stomach damage  Nervous system, liver, kidneys, lungs, and mucous membranes  Lymphoma, leukemia, testicular tumors, thyroid tumors, kidney tumors  Nervous system, liver, kidneys, lungs, and mucous membranes  Nervous system, liver, kidneys, lungs, and mucous membranes  Endocrine Distruptor; cancer  Nervous system, kidney, and liver damage  Pending study  Nervous system damage; cancer  Nervous system, liver, and kidney damage  Liver and kidney damage  Nervous system and liver damage  Kidney, liver, and Nervous system damage  Cancer</p>
<p><b>DISINFECTION BY-PRODUCTS (DBPs; VOCs)</b>  Chloropicrin**  Haloacetonitriles**      Bromochloroacetonitrile**      Dibromoacetonitrile**      Dichloroacetonitrile**      Trichloroacetonitrile**  Haloketones (HK)**      1,1-Dichloro-2-Propanone**      1,1,-Trichloro-2-Propanone**  Tribromoacetic Acid**  Trihalomethanes (THMs; TTHMs)**      Bromodichloromethane**      Bromoform**      Chloroform**      Dibromochloromethane**</p>	<p>Pending study. Fumigant; soil insecticide; war gas  Pending study    Pending study    Pending study  Cancer and other effects; reproductive problems  Cancer, liver, kidney and reproductive problems  Cancer, nervous system, liver, and kidney effects  Cancer, liver, kidney, and reproductive effects  Nervous system, liver, kidney, reproductive effects</p>
<p><b>CYSTS</b>  Cryptosporidium  Giardia</p>	<p>Gastroenteric diseases  Gastroenteric diseases</p>
<p><b>HEAVY METALS</b>  Lead    Mercury</p>	<p>Nervous system and kidney damage;  highly toxic to infants and pregnant women  Kidney, nervous system disorders</p>
<p><b>INORGANICS</b>  Asbestos  Turbidity</p>	<p>Cancer  Interferes with disinfection, related to disinfection by-products</p>
<p><b>AESTHETIC TREATMENT</b>  Chlorine    Chloramine    Particulate Matter</p>	<p>None Known; however, creates disinfection by-products that have been linked to cancer  None Known; however, consumers advised not to use water that contains chloramines for home dialysis machines or aquariums &amp; ponds  None Known</p>

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# CONTAMINANT

# HEALTH EFFECTS

## INORGANICS

(Reduced Only by Multipure's Aquacomplete RO Unit)

Barium	Circulatory/gastrointestinal effects
Cadmium	Liver/kidney/bone/circulatory effects
Copper	Gastrointestinal/liver/kidney effects
Fluoride	Skeletal effects
Hexavalent Chromium	Cancer and damage to mucous membranes
Nitrate/Nitrite	Methemoglobinemia (blue baby syndrome)
Perchlorate (man-made anion)	Interferes with the function of the thyroid
Radium 226/228	Cancer
Selenium	Nervous system/kidney/liver/circulatory effects
Total Dissolved Solids (TDS)	Aesthetic effect
Trivalent Chromium	Cancer and damage to mucous membranes

**\*\*These contaminants are all reduced by our VOC reduction claim. A VOC reduction claim by the manufacturer means the system reduces the concentration of all of the following contaminants:**

### Volatile Organic Chemicals (VOC):

Alachlor	Haloacetonitriles (HAN):
Atrazine	bromochloroacetonitrile
Benzene	dibromoacetonitrile
Bromodichloromethane (TTHM)	dichloroacetonitrile
Bromoform (TTHM)	trichloroacetonitrile
Carbofuran	Haloketones (HK):
Carbon Tetrachloride	1,1-dichloro-2-propanone
Chlorobenzene	1,1,1-trichloro-2-propanone
Chloroform (TTHM)	Heptachlor
Chloropicrin	Heptachlor Epoxide
2,4-D	Hexachlorobutadiene
Dibromochloromethane (TTHM)	Hexachlorocyclopentadiene
Dibromochloropropane (DBCP)	Lindane
o-dichlorobenzene	Methoxychlor
p-dichlorobenzene	Pentachlorophenol
1,2-dichloroethane	Simazine
1,1-dichloroethylene	Styrene
cis-1,2-dichloroethylene	1,1,1,2,2,-Tetrachloroethane
Trans-1,2-dichloroethylene	Tetrachloroethylene (PCE)
1,2-dichloropropane	Toluene
cis-1,3-dichloropropylene	2,4,5-TP (silvex)
Dinoseb	Tribromoacetic acid
Endrin	1,2,4-trichlorobenzene
Ethylbenzene	1,1,1trichloroethane
Ethylene Dibromide (EDB)	1,1,2-trichloroethane
	Trichloroethylene (TCE)
	Trihalomethanes (TTHMs)
	Xylenes (total)

The VOC claim is tested using chloroform as a surrogate for all of the contaminants.

