

# 1,2,4-Trichlorobenzene (C<sub>6</sub>H<sub>3</sub>Cl<sub>3</sub>)

## **What is 1,2,4-Trichlorobenzene?**

1,2,4-Trichlorobenzene is a man-made colorless liquid that is used as a solvent to dissolve special materials such as oils, waxes, resins, greases, and rubber. It is also used frequently to produce dyes and textiles.

## **Does 1,2,4-Trichlorobenzene have any additional names?**

1,2,4-TCB

## **What are the known health effects?**

Exposure to high levels of 1,2,4-Trichlorobenzene may cause changes in the liver, kidneys, and adrenal glands. There is currently no evidence that it has a potential to cause cancer from a lifetime exposure in drinking water.

## **How does exposure occur?**

The general population may be exposed to 1,2,4-Trichlorobenzene by inhaling air and through the ingestion of food and drinking water. 1,2,4-Trichlorobenzene has been detected in groundwater and surface water. It tends to evaporate from water but can also bind to suspended solids and sediment in water. High levels of 1,2,4-Trichlorobenzene are often detected in fish living in contaminated waters because it can accumulate in fatty tissue.

## **Is this contaminant regulated?**

Yes, and water supplied to Mount Laurel MUA customers is in compliance with USEPA and NJDEP requirements. The maximum concentration of 1,2,4-Trichlorobenzene permitted in drinking water is 9 ppb; 1,2,4-Trichlorobenzene is not currently detected in water supplied to MLTMUA customers.

## **How can I reduce exposure?**

1,2,4-Trichlorobenzene can be removed from drinking water by Granulated Activated Carbon filtration.

Additional information regarding 1,2,4-Trichlorobenzene, including the information referenced, can be found at:

<https://www.atsdr.cdc.gov/toxprofiles/tp199.pdf>

<https://www.epa.gov/sites/production/files/2016-09/documents/1-2-4-trichlorobenzene.pdf>