

# Frequently Asked Questions

### **ETHYLBENZENE**

#### What is ETHYLBENZENE?

Ethylbenzene is a clear, colorless liquid with a sweet odor, similar to gasoline. Ethylbenzene evaporates easily and catches fire easily.

## Where can Ethylbenzene be found and how is it used?

Ethylbenzene can be detected in air, water and soil. It occurs naturally in coal tar and petroleum, but it is also in the environment from human activities. The main use of Ethylbenzene is to manufacture styrene, a compound used to make plastics. Ethylbenzene is also found in gasoline, paints, inks, insecticides, carpet glues and tobacco products.

## How can people be exposed to Ethylbenzene?

You could be exposed to Ethylbenzene through:

**Breathing** Ethylbenzene where it is made or used. People who work with varnish, spray paints, adhesives and glue may be exposed to high levels at work or around the home. Persons living near a factory where Ethylbenzene is made or used can breathe it in air near the factory. Gasoline and car exhaust are major forms of exposure for the general public. Exposure can also occur from tobacco smoke.

**Drinking** water contaminated by Ethylbenzene. Liquid Ethylbenzene can enter water or soil from spills, factory releases or from leaking underground gasoline tanks.

### How does Ethylbenzene work and how can it affect my health?

Short-term exposure to airborne Ethylbenzene can affect the central nervous system, causing dizziness, sleepiness, headache, or difficulty with hand coordination. Ethylbenzene also irritates the eyes, nose, throat and skin. Long-term exposure to airborne Ethylbenzene has a lasting effect on the nervous system.

Animal studies show that long-term exposure causes liver and kidney damage. Although the health effects of drinking Ethylbenzene are not well known, animal studies show that large doses impact the central nervous system. Mice and rats that breathed Ethylbenzene developed cancers of the lung, liver and kidneys.

Ethylbenzene was named as a possible cancer-causing substance.

#### How is Ethylbenzene poisoning treated?

There are no treatments specific to Ethylbenzene poisoning. Doctors can treat the symptoms and effects of exposure to high levels.

# What should I do if exposed to Ethylbenzene?

Persons exposed to Ethylbenzene should be quickly removed from the source of exposure. Remove contaminated clothing and wash skin with soap and water. Flush the eyes with water. Seek medical attention immediately.

24/7 Emergency Contact Number: 1-888-295-5156



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## What factors limit use or exposure to Ethylbenzene?

Ethylbenzene is found in numerous products common in and around the home including gasoline, pesticides and tobacco products. Exercise caution in the use and storage of products containing Ethylbenzene. Such products should be properly labeled to avoid accidental poisoning. Workers in industries that use or produce Ethylbenzene should follow recommended health and safety procedures at all times.

## Is there a medical test to show whether I've been exposed to Ethylbenzene?

Tests can detect Ethylbenzene levels in the blood, tissue, urine and breath of someone exposed.

## **Technical information for Ethylbenzene**

CAS Number: 100-41-4 Chemical Formula: C<sub>8</sub>H<sub>10</sub>

Carcinogenicity (EPA): D - Not classifiable.

MCL (Drinking Water): 0.7 mg/L

OSHA Standards: 100 ppm (435 mg/m<sup>3)</sup> 8-hour Time Weighted Average

NIOSH Standards:100ppm (435 mg/m<sup>3)</sup> 8-hour Time Weighted Average; short-term 15-min. 125 ppm (545

 $mg/m^3$ )

#### References and Sources

Agency for Toxic Substances and Disease Registry. *Toxicological Profile for Ethylbenzene* (Update). July 1999.

New Jersey Department of Health and Senior Services, Hazardous Substance Fact Sheet – Ethylbenzene, http://nj.gov/health/eoh/rtkweb/doocuments/fs/0851.pdf (Accessed 10/29/09)

NIOSH Pocket Guide to Chemical Hazards, Ethylbenzene, <a href="http://www.cdc.gov/nioshh/npg/npgd0264.html">http://www.cdc.gov/nioshh/npg/npgd0264.html</a> (Accessed 10/29/09)

U.S. EPA Consumer Fact Sheet on Ethylbenzene,

http://www.epa.gov/safewater/contaminants/dw contamfs/ethylben.html (Accessed 10/29/09)