

Product Safety Summary

Toluene

ExxonMobil
Chemical

This Product Safety Summary document is a high-level summary intended to provide the general public with an overview of product safety information on this chemical substance. It is not intended to provide emergency response, medical or treatment information, or to provide a discussion of all safety and health information. This document is not intended to replace the (Material) Safety Data Sheet. Warnings and handling precautions provided below are not intended to replace or supersede manufacturers' instructions and warning for their consumer products which may contain this chemical substance.

1. Chemical Identity

Toluene is an organic compound

CAS No.
108-88-3

Chemical Name:
Toluene; methyl-benzene

2. Product Uses

Toluene is mainly used as a precursor in the production of other chemicals, as a solvent, or as a fuel or fuel additive.

3. Physical / Chemical Properties

Toluene is a clear, colorless, volatile liquid at room temperature. Toluene is flammable; it should be handled only with adequate ventilation and in areas where ignition sources have been removed (e.g. open flames, static electricity sources, unprotected light switches). The flash point is 40°F (4°C).

4. Health Information

Direct contact with toluene can cause skin irritation. Inhalation of high vapor concentrations can cause drowsiness and dizziness. Repeated or prolonged exposure causes damage to organs. In some cases, inhalation exposure to toluene has been associated with developmental delays in rats. There is no evidence that the substance causes genotoxic or mutagenic effects. Toluene is not classified as a carcinogen.

5. Additional Hazard Information

If accidentally swallowed, small amounts of liquid may be aspirated into the lungs during ingestion or from vomiting, this may cause severe lung inflammation and lung edema (an accumulation of fluid in the lungs). This is a medical emergency which must be immediately and properly treated. This product may cause functional hearing loss at exposures that greatly exceed indicative occupational exposure limit (50 ppm).

6. Food Contact Regulated Uses

This product is not claimed as compliant for food contact uses.

7. Environmental Information

Toluene is readily biodegradable and will not persist or bioaccumulate in the environment. Because of its volatility (tendency to move from water and soil into the air), toluene that accidentally gets into the water and soil environments is expected to evaporate into the air where it is quickly degraded and broken down. Since toluene has a tendency to move rapidly from soil and water to air, residual concentrations in the soil and

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aquatic habitats will be short-lived and chronic toxicity is not expected. Toluene is not classified for chronic hazard to the environment. Considerable measures are taken to prevent its release to the atmosphere, soil or water and to minimize any exposure to the environment from manufacturing and the use activities.

8. Exposure Potential

- **Workplace exposure** – This refers to potential exposure in a manufacturing facility or through evaporation in various industrial applications. Generally, exposure of personnel in manufacturing facilities is relatively low because the process, storage and handling operations are enclosed. The ACGIH recommended Threshold Limit Value (TLV) is 20 parts per million (ppm) per an 8-hour work day.
- **Consumer use of products containing Toluene** – This chemical is not sold by ExxonMobil directly to the public for consumer use. The general population is exposed to toluene from its use in, solvents, and fuels. Exposures are typically to very small quantities and of short duration.
- **Environmental releases** – As a chemical manufacturer, we are committed to operating in an environmentally responsible manner everywhere we do business. Our efforts are guided by in-depth scientific understanding of the environmental impact of our operations, as well as by the social and economic needs of the communities in which we operate. Industrial spills or releases are rare; however a spill may pose a flammability issue. Our operational improvement targets and plans are based on driving incidents with real environmental impact to zero and delivering superior environmental performance.

9. Manufacture of Product

- **Production** – Toluene is produced from industrial processes

10. Risk Management

- **Workplace Risk Management** – When using this product, make sure that there is adequate ventilation. Always use chemical resistant gloves to protect your hands and skin and always wear eye protection such as chemical goggles. Do not eat, drink, or smoke where chemicals are handled, processed, or stored. Wash hands and skin following contact. If this product gets into your eyes, flush eyes thoroughly with tap water. If irritation occurs, get medical assistance. Please refer to the (Material) Safety Data Sheet.
- **Consumer Risk Management** - Always follow manufacturers' instructions, warnings and handling precautions when using their products. The best way to minimize exposure to vapors is to work in well-ventilated areas.

11. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this product and may vary by city, state, country or geographic region. Additional helpful information may be found by consulting the relevant ExxonMobil Safety Data Sheet at:

- <http://www.msds.exxonmobil.com>

12. Conclusion Statements

Toluene

- is a widely used chemical intermediate in industrial reactions.

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- is not expected to cause adverse environmental effects at levels typically found in the workplace or environment
- should only be used with good ventilation; avoiding all ignition sources.
- is not sold by ExxonMobil directly to the public for consumer use

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