

Product Safety Summary



TRI ETHYLENE GLYCOL

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

<u>CAS No.</u>	<u>EC No.</u>	<u>Chemical Name:</u>	<u>Other Names:</u>
112-27-6	203-953-2	TRI ETHYLENE GLYCOL	TEG 2,2'-(ethylenedioxy) diethanol

2. Product Uses

TEG is widely used as a dehumidifying agent (water removal) in natural gas production. Due to its chemical properties, TEG is used for a variety of industrial uses, including as a plasticizer, solvent, chemical intermediate, and chemical additive.

3. Physical / Chemical Properties

TEG is a colorless, viscous liquid with a low vapor pressure. The flash point for this product is approximately 349 °F / 176 °C.

4. Health Information

TEG is minimally toxic. Excessive exposure may result in eye, skin, or respiratory irritation.

5. Additional Hazard Information

No additional hazard information.

6. Food Contact Regulated Uses

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

7. Environmental Information

TEG is not harmful to aquatic organisms (e.g., fish, invertebrates, algae) on an acute basis. It is readily biodegradable and its potential to bioaccumulate or persist in the environment is low. Concentrations in water and soil are also likely to be low since TEG has high soil mobility and biodegrades readily. Chronic toxicity is not expected to occur in the aquatic or terrestrial environments. Measures should be taken to prevent its release to the environment and to minimize any exposure from manufacturing or use activities.

8. Exposure Potential

- **Workplace exposure** – The potential exposure to TEG in a manufacturing facility or industrial workplace is generally low because the process, storage and handling operations are closed, with little potential for releases to the air.

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- **Consumer use of products containing TEG** – TEG may be present in products sold to the general public. At ambient pressures the exposure to vapors will be very low, but could be high if mists are present. Exposure to consumers would be noticed by signs of irritation to the respiratory tract or skin.
- **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. 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

- **Process** – Produced by the partial hydrolysis of ethylene oxide

10. Risk Management

- **Workplace Risk Management** – When using this chemical, make sure that there is limited exposure to the liquid, and also avoid the generation of vapor mists. 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 this chemical is handled, processed, or stored. Wash hands and skin following contact. If this chemical gets into your eyes, rinse eyes thoroughly for at least 15 minutes with tap water and seek medical attention. Please refer to the Safety Data Sheet.
- **Consumer Risk Management** - This chemical may be present in products sold directly to the public for general consumer uses. Consumer exposure is possible, but it is expected to be infrequent and of short duration. Always follow manufacturers' instructions, warnings and handling precautions when using their products.

11. Regulatory Information

Regulations may exist that govern the manufacture, sale, transportation, use and/or disposal of this chemical 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/psims/psims.aspx?brand=xomcc>

12. Conclusion Statements

TEG is:

- a chemical manufactured at industrial facilities.
- is minimally toxic to human health
- is readily biodegradable, is not expected to be harmful to aquatic organisms, and is not expected to cause long-term adverse effects in the aquatic environment

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