

Product Safety Summary



DI 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>
111-46-6	203-872-2	DI ETHYLENE GLYCOL	DEG 2,2'-oxydiethanol

2. Product Uses

DEG is used as a raw material in the chemical industry for the manufacturing of other substances.

3. Physical / Chemical Properties

DEG is a colorless liquid with a low vapor pressure. The flash point for this product is approximately 280 °F / 138 °C.

4. Health Information

DEG is considered harmful if swallowed. It may cause kidney failure and central nervous system effects. DEG is converted to toxic metabolites in the body, which may be fatal if it is ingested in large amounts. This is a medical emergency which must be immediately and properly treated.

5. Additional Hazard Information

Prolonged exposure to elevated concentrations of mists or liquids may cause irritation to skin, eyes and the respiratory tract.

6. Food Contact Regulated Uses

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

7. Environmental Information

DEG 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 DEG 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 DEG 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 DEG** – DEG 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

DEG is:

- a chemical manufactured at industrial facilities.
- is harmful if swallowed
- 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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