

DiPropylene Glycol Ethyl Ether (DPGEE) [Ethyl DIPROXITOL]

Product Stewardship Summary

(CAS number 30025-38-8)

Chemical Formula for DPGEE

$C_8H_{18}O_3$

What is DPGEE?

DPGEE is a glycol ether based on Propylene oxide and ethanol. It is a speciality solvent having a bi-functional nature (ether-alcohol). It is a clear liquid with an ethereal odour.

The Shell Chemicals range of Propylene oxide-based glycol ethers are sold under the trade name PROXITOL.

How is DPGEE Used?

It is used as an intermediate and in formulations in industrial, professional or consumer applications, mainly in surface coatings and printing inks and paints, cleaners, agrochemical or de-icing/anti-icing formulations.

Health, Safety and Environmental Considerations

DPGEE is flammable liquids with a flashpoint of 180°F/82°C. DPGEE is an isomer mix, of which the main component is 1-Ethoxypropanol-2 (typically 98% or more).

Shell PROXITOLs are not classified as carcinogens or mutagens, are not expected to cause cancer in humans, nor do they impair fertility or damage the developing foetus.

DPGEE is of low toxicity towards aquatic organisms. They are completely miscible with water, biodegradable and not expected to bio-accumulate.

Storing and Transporting DPGEE

DPGEE is transported by tank truck, rail car and vessel, primarily in bulk quantities, but also as packed product. Due to its flammability, they are classified as hazardous for transport under transport regulations.

Glycol Ethers should be stored at ambient temperatures away from sources of ignition and substances with oxidising or corrosive properties. PROXITOLs are stabilised with a certain amount of inhibitor to prevent the formation of peroxides.

Risk Characterization Summary

Risks associated with exposure to these products have been evaluated for the following “chain-of-commerce” activities: manufacture, storage, product transfer, transportation, and customers/markets. They are manufactured, stored and transported to customers in closed systems. Depending on the customer, end uses may vary from use as an intermediate for the manufacture other chemicals, as commercial products or as formulated consumer products. Proper equipment design and handling procedures maintain low risk from exposure where used as an intermediate. Exposures may be higher in commercial and consumer applications. To minimize risk, additional controls, such as special handling procedures and protective packaging, are implemented.

This product stewardship summary is intended to give general information about the chemical or categories of chemicals addressed. It is not intended to provide an in-depth discussion of health and safety information. Additional information is available through the chemical’s applicable [Safety Data Sheet](#), which should be consulted before use of the chemical. This product stewardship summary does not supplant or replace required regulatory and/or legal communication documents.



Disclaimer

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