Dipropylene glycol methylether (DPGME)  
[MethylDIPROXITOL]  
Product Stewardship Summary  
(CAS number 34590-94-8)

Chemical Formula for DPGME  
C\textsubscript{7}H\textsubscript{16}O\textsubscript{3}

What is DPGME?  
DPGME is a glycol ether based on propylene oxide and methanol. It is a speciality solvent having a bi-functional nature (ether-alcohol). It is a clear liquid with an ether-like odour.  
The Shell Chemicals range of propylene oxide-based glycol ethers are sold under the trade name PROXITOL.

How is DPGME 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 and agrochemical formulations.

Health, Safety and Environmental Considerations  
DPGME is not flammable, but a combustible liquid with a flashpoint of 167°F/75°C. Typically, the concentration of DPGME is 99%; 2-Methoxypropanol-1 can be present as an impurity at max. 0.1%.  
If large quantities are ingested or high vapour concentrations inhaled, DPGME may cause central nervous system depression including headaches, nausea, dizziness, drowsiness, and coma, but not to an extent that it would trigger a classification. To a certain extent, DPGME can cause slight eye, skin or respiratory tract irritations, but effects do not cause classification according to the Globally Harmonized System (GHS) criteria. DPGME is not classified as a carcinogen or mutagen; it is not expected to cause cancer in humans, nor does it impair fertility or damage the developing fetus.  
Occupational exposure limits exist for DPGME in the range of 50 –100 ppm.  
DPGME is of low toxicity towards aquatic organisms. It is completely miscible with water, biodegradable and not expected to bio-accumulate.

Storing and Transporting DPGME  
DPGME is transported by tank truck, rail car and vessel, primarily in bulk quantities, but also as a packed product. It is not classified as hazardous for transport under transport regulations.
Glycol ethers should be stored at ambient temperatures away from sources of ignition and substances with oxidizing or corrosive properties. PROXITOLs are stabilized 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.

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