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Ethylene Oxide

Ethylene Oxide is derived from petroleum and is a highly reactive colorless gas with a sweet odor.

Downstream materials of Ethylene Oxide include:

a) **Polyethylene Glycols (PEGs)**
b) Ethylene Oxide
   i) **Sterilant**
c) Ethylene Glycol
   i) **Antifreeze** (keep in mind a winter risk)
   ii) Polyester fibers
   iii) Polyethylene Terephthalate Resins (PET)
      (1) Bottles and packaging
d) Diethylene Glycol (DEG)
   i) Polyester
   ii) **Polyurethane** **(Co-product risk for tech grade HCl)**
   iii) Morpholine
   iv) 1,4-dioxane
   v) Automotive solutions
      (1) De-icing fluid
      (2) Brake Fluid
      (3) Lubricants
e) Triethylene Glycol (TEG)
   i) Hydraulic fluids
   ii) Brake fluids
   iii) Remove water vapor from natural gas
f) Ethoxylates
   i) Surfactants
      (1) Laundry Detergents
      (2) Surface Cleaners
      (3) Cosmetics
      (4) Other: Agriculture, Textiles, Paint
g) Ethanol Amines, Ethylene Glycol Ethers and Polyols