

DuPont is a dynamic science company with a strong commitment to protecting the environment. Because of that commitment, we are focused on continuing to develop innovative products that meet the demanding specifications of our customers while providing safer cleaning solutions that are more sustainable for the environment.

For more than a decade, DuPont scientists have been developing new, better-performing and sustainable specialty fluids in anticipation of customer needs, changing market trends and regulatory restrictions. By virtue of better performance and environmental properties, DuPont™ Vertrel® specialty fluids have been proven to be ideal replacements for solvents with ozone-depleting and global warming potential. DuPont™ Vertrel® is used as a replacement fluid for products such as CFC-113, 1-1-1 trichloroethane, HCFC-141b, HCFC-123, HCFC-225, PFCs, nPB-based solvents, perchloroethylene, trichloroethylene and hydrofluoroethers.

What are DuPont™ Vertrel® specialty fluids?

DuPont™ Vertrel® specialty fluids are a family of hydrofluorocarbon-based fluids with zero ozone depletion and low global warming potential. The unique properties of DuPont™ Vertrel® specialty fluids include a low boiling point, low heat of evaporation, excellent solvent retention, low surface tension, low viscosity, non-flammability, chemical and thermal stability, low toxicity, and ease of recovery by distillation. DuPont™ Vertrel®, its azeotropes and blends are compatible with a broad range of materials, metals, plastics and elastomers.

DuPont™ Vertrel® specialty fluids are used in a wide array of applications such as:

- Aerosols
- Carrier fluids
- Cleaning solvents
- Brine/Coolant
- Drying fluids
- Dry cleaning
- Heat transfer
- High voltage applications (dielectric)
- Testing or analytical fluid

DuPont™ Vertrel® specialty fluids come with the assurance of consistent performance, quality, safety, technical service and support.

Environmental properties

Because of their zero ozone depletion and low global warming potential, DuPont™ Vertrel® specialty fluids are accepted by key governmental and environmental regulatory agencies in the US and in most countries around the globe.

Please check with the DuPont office closest to you for acceptance of DuPont™ Vertrel® and its blend of components in your specific country.

Safety and handling

DuPont™ Vertrel® specialty fluids are generally safe, but as with any chemical it is important for all users to be well-informed regarding the product properties, safe handling and use.

Flammability/Decomposition

Most DuPont™ Vertrel® specialty fluids do not exhibit a closed-cup flash point and are not classified as flammable liquids by the National Fire Protection Association (NFPA) or the Department of Transportation (DOT). However, there are some blends that have vapor flammability limits in air. Specific flammability information is provided for each blend on the DuPont™ Vertrel® website (vertrel.dupont.com).

Human health

DuPont™ Vertrel® specialty fluids have low inhalation toxicity and pose little risk of adverse health effects when airborne exposure is maintained below established limits. All DuPont™ Vertrel® blends have an exposure limit (AEL) of > 100. For information on the exposure limits for each DuPont™ Vertrel® blend, please visit our website (vertrel.dupont.com).



Because of their versatility and exceptional performance, DuPont™ Vertrel® specialty fluids are commonly used in a multitude of industries ranging from aerospace to medical devices.