



PRODUCT DESCRIPTION

Ulterion® N2000 flame retardant is one of a family of unique cyclic phosphonate flame retardant additives. This high phosphorus containing material is particularly suited for use in polyester, polyurethane, and polyamide based elastomers and thermoset resins.

Ulterion® N2000 is also widely used in solvent based adhesives and coatings to provide durable and semi-durable flame retardant bonds and finishes to a wide variety of composites.

Typical Properties

Active Concentration	100%
Appearance	Highly viscous liquid
Viscosity, cps @ 72°F	>100,000 cps
Phosphorus, Wt.%	21.5
Acid #, mgKOH / g	1.0
pH	n/a
Weight per gallon	10.7 lbs

Application Methods

Ulterion® N2000 is a highly viscous liquid at room temperature. It can be pumped using progressive cavity and gear type pumps. Warming the product will reduce its viscosity and improve its pumpability.

Ulterion® N2000 can be readily dissolved into most polar and semi-polar solvents.

Ulterion® N2000 is easily compounded into a wide range of thermoplastic polymers. It has excellent solubility characteristics and demonstrates little or no blooming tendency over time in non-hygroscopic systems. Some plasticizing of the polymer matrix can be expected at higher load levels.

Ulterion® N2000 has very good thermal stability. TGA weight loss at 150°C is approximately 2%.

MARKET USES

- Automotive
- Electronics
- Structural Composites
- Carpet Underlayment

Packaging

Ulterion® N2000 is available in 55 gallon drums.

Handling / Storage Stability

Store in cool, dry area i.e., 70-80°F. Keep away from high heat to retain a year shelf life.

Product Safety

Ulterion® N2000 is classified as a non-hazardous viscous liquid. As with all industrial chemicals, basic handling precautions are recommended. Avoid skin contact. Avoid mist inhalation or eye contact. Wear protective clothing and goggles if there is a chance of exposure. Prolonged skin contact may produce irritation.

When considering the use of **Ulterion®** brand products, please refer to the latest Safety Data Sheets (SDS). If a SDS for this product is required, please contact your **Jain Chem Representative**.

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