



PA

Business Unit or Division

Polymer Additives
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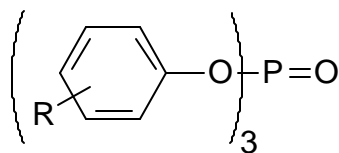
Technical Information

Product Name

Great Lakes Reofos[®] 50 Phosphorus Flame Retardant

Reofos 50 is a synthetic isopropylated triaryl phosphate ester flame retardant, which can be used in a wide variety of resins, particularly PVC.

Triaryl Phosphate Isopropylated
CAS Reg. Number [68937-41-7]



R = H or isopropyl

Typical Properties

Appearance	Clear Liquid
Phosphate Content, %	8.3
Viscosity @ 25 °C, cps	53 - 64
Specific Gravity @ 20 °C, g/ml	1.17 - 1.18
Acidity, mg KOH/g. Max	0.1

Thermogravimetric Analysis (10 mg @ 10 °C/minute under N₂)

Weight Loss, %	5	10	50
Temperature, °C	216	235	284

Solubility (g/ 100 g Solvent)

Water	Insoluble	Toluene	Complete
Methylene Chloride	Complete	Methyl Ethyl Ketone	Complete
Methanol	Complete		

Reofos 50 is recommended as a flame retardant for PVC, flexible polyurethanes, cellulosic resins, and synthetic rubber. Reofos 50 is also recommended as a flame retardant processing aid for engineering resins, such as modified PPO, polycarbonate and polycarbonate blends.

The use of proper protective equipment is recommended. Excess exposure to the product should be avoided. Wash thoroughly after handling. Store the product in a cool, dry, well-ventilated area away from incompatible materials. Unless stated, proper storage will permit usage of the product for 6 to 12 months from the date of receipt. For additional handling and toxicological information, consult the GLCC Material Safety Data Sheet.