Technical Data Sheet

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Organophosphorus Frame Retardant LP-11

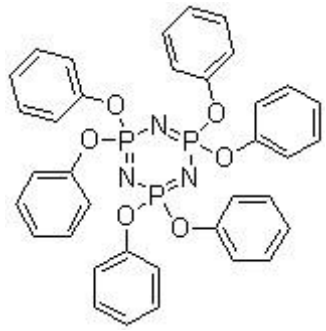
Description:

Chemical Name: Phenoxycyclotriphosphazene

Synonyms: Hexaphenoxycyclotriphosphazene;
2,2,4,4,6,6-Hexahydro-2,2,4,4,6,6-hexaphenoxytriazatriphosphorine; Diphenoxyphosphazene cyclic trimer;
Hexaphenoxy-1,3,5,2,4,6-triazatriphosphorine; Trimeric bis(phenoxy)phosphonitrile; HPCTP;

Equivalents: NSC 117810; Rabitle FP 100

Molecular Structure:



Molecular Formula: $C_{36}H_{30}N_3O_6P_3$

Molecular Weight: 693.56

CAS NO.: 1184-10-7

EINECS NO.:

Special Features:

Phenoxycyclotriphosphazene has a unique P and N hybrid structure. It has high thermal stability, flame retardancy, high limiting oxygen index (LOI) and low smoke release performance, and belongs to additive-type halogen-free flame retardant agent.

Typical Technical Properties:

Appearance: White crystalline powder

Main Content (HPLC, %): ≥99.0

Thermal Decomposition Temperature: >340°C

Drying loss(%): ≤0.10

Melting Point: 112~115°C

Density (20°C, g/cm3): 1.31

Applications:

Widely used in epoxy resin, copper clad laminate, LED light emitting diode, powder coating, potting material and polymer material, it is a kind of excellent fire retardant material and self-extinguishing material.

Package &Storage:

In 20KG/bag (lined with plastic paper bag) or up to clients request.

Keep in cool, dry and ventilated place. Keep away from sunlight and fire sources.

Storage beyond the shelf life does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

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