DR. J. PHARMACHEM (INDIA)

| *POLYMER* | *FR-PHOSPHATES* |
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# FR 370 — Technical Datasheet

**Product Information:** POLYMER ADD-FR 370 is an additive flame retardant.

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| Chemical Name | FR 370 | | |
| Grade Name | FR 370 | | |
| CAS No. | 19186-97-1 | | |
| EINECS No. | 606-254-4 | | |
| Molecular Formula | C15H24Br9O4P | | |
| Synonyms | • Tris (Tri Bromoneopenthyl) Phosphate<br>• Tris (Tribromoneopentyl) Phosphate<br>• Tris[3-bromo-2,2-bis(bromomethyl)propyl]phosphate | | |
| **TEST** | **SPECIFICATION** | | **METHOD** |
| Appearance | Form: Powder<br>Colour: White | | Visual |
| Bromine Content | 70.6 % Max.(Theoretical) | | XRF analysis |
| Melting Point | 181 ºC Min. | | Melting point apparatus (open capillary tube method) |
| Volatile Content | 0.5 % Max. | | Oven drying |
| Phosphorus Content | 3 % Min. | | Spectrophotometry |
| Solubility at 25 ºC | Solvent | Solubility ( gm/100ml ) | Visual |
| | Hexane | 9.75 | |
| | Methanol | <0.1 | |
| | Methyl ethyl ketone | 1.5 | |
| | Toluene | 0.7 | |
| | Methylene chloride | 9.75 | |
| | Water | 0.016 | |

**Product Applications:**

1. POLYMER ADD-FR 370 is used as a flame retardant in polyurethanes and unsaturated polyesters
2. It is used in polypropylene resins, polyethylene resins, polycarbonate alloys and pp fibres.
3. It is used in housings of electric and electronic equipment as well as in textiles.

**Product Benifits:**

1. POLYMER ADD-FR 370 is easy to process and can improve flow ability and contribute to non-blooming properties in PP applications.

722/AB/15, Nirmal, Laxmi Park Colony, Navi Peth 411030, www.jpharmachem.com
Tel. 020-24530071 Email:sales@jpharmachem.com

2. It is unique combination of phosphorous and bromine which offers excellent flame retardancy.
3. It can offer flame retardancy rating of UL 94 (V2)

**Product Dosage:** We strongly recommend testing of your own system under the actual conditions of processing and end-use prior to full scale testing. Exact loading must be determined by compositions of the specific polymer systems.

| Polymer Details | Suggested dosage |
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**Product Handling & safety:**
Please refer to our product MSDS for specific instructions on handling this product.

**Product Registration:**POLYMER ADD-FR 370 is not recommended for food contact polymers.

Title:
Chapter:
Subchapter:
Part:
Subpart:
Section:

**Product Disclaimer**
**Important :** This statement supersedes any Buyers documents. Seller makes no representation, Warranty, Express or Implied, Including of Merchantability of Fitness for a particular use, or purpose.

No statement herein is to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seler be liable for incidental, consequential or indirect damanges for alleges negligence breach of warranty, strict liability, and tort or contact rising in connectoin with product(s). Buyers sole remedy and Sellers sole Liability for any claims shall be buyers purchase price. Data and results are based on controlled or lab work and must be confirmed by the buyer by testing for its indented conditions of use.

This product is not been tested for, and is therefore not recommended for, use for which prolonged contact with mucous membranes, abraded skin, or blood is intended, or fur use for which implantation within human body is intended.