TOPL
Tina Organics (P) Ltd.
AN ISO CERTIFIED COMPANY

MADE IN INDIA

FLAME RETARDANT PLASTICIZER

TRICRESYL PHOSPHATE – TCP

All Rubber Auto Components Manufacturers, who can easily Induce Fire Resistance property to their Rubber products of all Grades of Rubbers.

TCP is Improving Fire Retardant property in Automobile Rubber Parts like Fuel Hose, Couplings, Battery Caps Etc… with Non Halogenated Plasticizer.

TCP Can Replace other Plasticizer like DOP.

TCP is Non Flammable Liquid Additive namely **TRICRESYL PHOSPHATE**- an Ester type Plasticizer, Manufactured by Tina Organics Pvt. Ltd. to replace the Rubber Process Oils.

The Phosphorous content of TCP is about 8.8 wt % (Means better FR properties) and it has a Good Heat Resistance, less Volatility and Hydrolytic Stability. It is well known as an Effective Flame Retardant Plasticizer, with Good Compatibility in almost all types of Rubbers used for making Auto components like Hoses and Molded Auto parts..

It has the advantage that it is well compatible with even PVC or NBR PVC Blends besides in CR or SBR and it enhance their Heat Resistance Properties.

Applications:

- Best Liquid additive to get Fire Resistance property and Food Extrusion quality in all Rubber Hoses & Tubes of Rubber and PVC.
- Shock Absorption, Fire Resistant EPDM Vulcanized Rubber
- Mine conveyor belts, Air Ducts.
- Plasticizer with outstanding Low Temperature Flexibility and Flame-Retardant properties for PVC, CR(Skyprene), PUR, NBR, NBR PVC, EPDM and other Synthetic Rubber. Can be used as a replacement of DOP in NBR, CR(Skyprene) and NBR PVC blend.
- In CABLES sheathing compound blend of TCP with DOP in equal measure increases the OXYGEN INDEX of PVC compound by 50% and cost reduces by 25% , with added Heat Resistance and Thermal Stability.
- Effective Plasticizer for FR type Agricultural PVC films, Induces good Flexibility and Heat Resistance unlike FR filler additives.
- Best Cost reducer of CR(Skyprene) & Synthetic Rubber compounds for high Abrasion Resistance & Fire Resistance Cable Sheath , Conveyer Belt etc.
- TCP is used as a Plasticizer in Vinyl Plastic manufacture, as a Flame-Retardant, a Solvent for Nitrocellulose, in Cellulosic Molding
- Compositions, as an Additive to Extreme Pressure Lubricants, and as a Non-Flammable Fluid in Hydraulic Systems.

Available Grades of TCP

Grades	TCP-100	TCP-40
Formula	$(CH3C6H40)^{3}Po$	
Molecular Weight		340
CAS NO.	1330-78-5	
Appearance	Clear Oily Liquid	Clear Liquid
Flash Point	238°C Min	235°C Min
Acid Value (mgKOH/g)	0.01 max	0.1 max
Free Phenol	0.1	0.1 max
Specific Gravity	1.166 ± 0.01	1.19 - 1.21