

# PLASTIC ADDITIVES

## PLASTICIZERS

Tributyl Citrate (TBC)  
 Triethyl Citrate (TEC)  
 Trioctyl Citrate (TOC)  
 Acetyl Tributyl Citrate (ATBC)  
 Dicothyl Terephthalate (DOTP)  
 Dioctyl Phthalate (DOP)  
 Trioctyl Trimellitate (TOTM)  
 Dioctyl Adipate (DOA)  
 Dioctyl Sebacate (DOS)  
 Dibutyl Sebacate (DBS)  
 Dibutyl Phthalate (DBP)  
 Disobutyl Nylon Acid (DIBA)  
 Disononyl Phthalate (DINP)  
 Monomethyl Adipate (MMAD)  
 Dimethyl Adipate (DMAD)  
 Methyl Palmitate  
 Methyl Oleate  
 Fatty Acid Methyl Ester  
 Epoxidized Soybean Oil (ESO)  
 Epoxy Fatty Acid Methyl Ester (EFAME)

## LUBRICANTS

Oleamide  
 Erucamid  
 N,N'-Ethylene Bis Stearam (EBS)  
 N,N'-Ethylene Bis Oleamid (EBO)  
 Stearic Acid  
 N-Butyl Stearate (NBS)  
 Glycerol Stearate  
 Glycerol Monostearate (GMS)  
 Calcium Stearate  
 Zinc Stearate  
 Potassium Stearate  
 Sodium Stearate  
 Aluminum Stearate  
 Barium Stearate  
 Magnesium Stearate  
 Lithium Stearate

## FLAME RETARDANTS

Halogen-Free Flame Retardants  
 Antimony Trioxide  
 Magnesium Hydroxide (MDH)  
 Aluminum Hydroxide (ATH)  
 Zinc Borate  
 Chlorine Flame Retardants  
 Chlorinated Paraffin (CP)  
 Chlorinated Polyethylene (CPE)  
 Nitrogenated Flame Retardants  
 Melamine  
 Melamine Cyanurate (MCA)  
 Brominated Flame Retardants  
 DECABROMODIPHENYL OXIDE (DBDPO)  
 DECABROMODIPHENYL ETHANE (DBDPE)  
 TETRABROMOBISPHENOL A BIS(DIBROMOPROPYL ETHER)(BDDP)  
 HEXABROMOCYCLODODECANE (HBCD)  
 BROMINATED POLYSTYRENE (BPS)  
 TETRABROMOBISPHENOL (TBBA)  
 N,N-ETHYLENE-BIS(TETRABROMOPHTHALIMIDE) (TBPI)

## PHOSPHORUS FLAME RETARDANTS

Tricresyl Phosphat (TCP)  
 Tris(2-Chloroisopropyl)Phosphate (TCPP)  
 Tris(2-Chloroethyl) Phosphate (TCEP)  
 Trioctyl Phosphat(TOP)  
 Bisphenol A-Bis(Diphenyl Phosphate (BDP)  
 Triphenyl Phosphat(TPP)  
 Triethyl Phosphat (TEP)  
 Trihexyl Phosphat (THP)  
 Trixylenyl Phosphate (TXP)  
 Melamine Pyrophosphate (MPP)  
 Ammonium Polyphosphate (APP)  
 Melamine Cyanurate (MCA)  
 Cresyl Diphenyl Phosphate (CDP)  
 Diphenyl Isooctyl Phosphate(DPOP)  
 Diphenyl Isodecyl Phosphate (DPDP)  
 Dimethyl Methylphosphonate (DMMP)  
 Isopropylated Triphenyl Phosphate(IPPP)  
 Tris(1,3-Dichloro-2-Propyl)Phosphate (TDCPP)