



Biesterfeld
Spezialchemie

Product Portfolio
Polymer Additives

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Our Partners for Polymer Additives



Antioxidants

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Songnox® 1010	Songwon Ind.	Tetrakis[methylene-3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate] methane	6683-19-8	Phenolic antioxidant as primary stabilizer for plastics
Songnox® 1076	Songwon Ind.	Octadecyl-3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate	2082-79-3	
Songnox® 1135	Songwon Ind.	Benzenepropanoic acid, 3,5-bis (1,1-dimethylethyl)-4-hydroxy-, C7C9-branched alkyl esters	125643-61-0	
Songnox® 2450	Songwon Ind.	„Triethylene glycol-bis-3-(3-tert-butyl-4-hydroxy-5-methylphenyl) propionate	36443-68-2	
Songnox® 3114	Songwon Ind.	Tris(3,5-di-tert-butyl-4-hydroxybenzyl) isocyanurate	27676-62-6	
Songnox® 1035	Songwon Ind.	Thiodiethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl) propionate]	41484-35-9	
Songnox® 1098	Songwon Ind.	N,N'-Hexamethylenebis(3,5-di-tert-butyl-4-hydroxyhydrocinnamamide)	23128-74-7	
Songnox® 1330	Songwon Ind.	1,3,5-trimethyl-2,4,6-tris (3,5-di-tert-butyl-4-hydroxybenzyl) benzene	1709-70-2	
Songnox® 5650	Songwon Ind.	2,6-di-tert-butyl-4-(4,6-bis(octylthio)-1,3,5-triazin-2-ylamino) phenol	991-84-4	
Songnox® 5057	Songwon Ind.	Diphenylamine, octylated & butylated	68411-46-1	Aminic antioxidant as primary stabilizer for plastics
Songnox® 5721	Songwon Ind.	Mixture of Songnox 1135 + Songnox 5057 (2:1)	125643-61-0 68411-46-1	Blend of phenolic and aminic antioxidants as primary stabilizer for plastics
Songnox® 1024	Songwon Ind.	2',3-bis[[3-[3,5-di-tert-butyl-4-hydroxyphenyl]propionyl]] propionohydrazide	32687-78-8	Phenolic antioxidant as metal deactivator for plastics
Songnox® 1680	Songwon Ind.	Tris (2,4-di-tert-butylphenyl) phosphite	31570-04-4	Phosphite antioxidant as processing stabilizer for plastics
Songnox® 6260	Songwon Ind.	Bis (2,4-di-tert-butylphenyl) pentaerythritol diphosphite	26741-53-7	
Songnox® 6280	Songwon Ind.	Mixture of SONGNOX 6260 & Mg, Al talcite	26741-53-7 11097-59-9	
Songnox® 9228	Songwon Ind.	Bis (2,4-dicumylphenyl) pentaerythritol diphosphite	154862-43-8	
Songnox® 9228T	Songwon Ind.	Mixture of Bis (2,4-dicumylphenyl) pentaerythritol diphosphite + 1% Triisopropanolamine	154862-43-8	
Songnox® PQ	Songwon Ind.	Phosphorous trichloride, reaction products with 1,1'-biphenyl and 2,4-bis(1,1-dimethylethyl) phenol	119345-01-6	Phosphonite antioxidant as processing stabilizer for plastics
Songnox® DSTDP	Songwon Ind.	Distearyl thiodipropionate	693-36-7	Sulphur containing antioxidant as long term heat stabilizer for plastics
Songnox® DLTP	Songwon Ind.	Dilauryl thiodipropionate	123-28-4	
Songnox® DTDP	Songwon Ind.	Ditridecyl thiodipropionate	10595-72-9	

UV-Absorbers

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Songsorb® 1000	Songwon Ind.	2-(2'-hydroxy-5'-methylphenyl) benzotriazole	2440-22-4	Benzotriazole, broad absorbing, physically acting and preventive light stabilizer for plastics
Songsorb® 2340	Songwon Ind.	2-[2-hydroxy-3,5-di(1,1-dimethyl benzyl) phenyl]-2H-benzotriazole	70321-86-7	
Songsorb® 3260	Songwon Ind.	2-(2'-hydroxy-3'-tert-butyl-5'-methylphenyl)-5-chlorobenzo triazole	3896-11-5	
Songsorb® 3270	Songwon Ind.	2-(2'-hydroxy-3',5'-di-tert-butylphenyl)-5-chlorobenzo triazole	3864-99-1	
Songsorb® 3280	Songwon Ind.	2-(2'-hydroxy-3',5'-di-tert-amyl phenyl) benzotriazole	25973-55-1	
Songsorb® 3290	Songwon Ind.	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl) phenol	3147-75-9	
Songsorb® 3600	Songwon Ind.	Bis[2-hydroxy-5-tert-octyl-3-(benzotriazol-2-yl)phenyl] methane	103597-45-1	Benzoate, physically acting and preventive light stabilizer for plastics
Songsorb® 7120	Songwon Ind.	2,4-di-tert-butylphenyl-4'-hydroxy-3',5'-di-tert-butyl benzoate	4221-80-1	
Songsorb® 2908	Songwon Ind.	Hexadecyl-3,5-di-tert-butyl-4-hydroxybenzoate	67845-93-6	
SaboStab® UV 1	Sabo S.p.A.	Ethyl 4-[(methylphenylamino) methylene]amino] benzoate	57834-33-0	Benzophenone, broad absorbing, physically acting and preventive light stabilizer for plastics
Songsorb® 8100	Songwon Ind.	2-hydroxy-4-n-octoxybenzophenone	1843-05-6	
SaboStab® UV 312	Sabo S.p.A.	2-ethyl-2'-ethoxy-oxanilide	23949-66-8	Oxanilide, physically acting and preventive light stabilizer for plastics (Active in the UV-B range only)
Songsorb® 1577	Songwon Ind.	2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-hexyloxy phenol	147315-50-2	Triazine, broad absorbing, physically acting and preventive light stabilizer for plastics
Songsorb® 1164	Songwon Ind.	2-[4,6-bis (2,4-dimethylphenyl)-1,3,5-triazin-2-yl]-5-(octyloxy) phenol	2725-22-6	

HALS (Hindered Amine Light Stabilizer)

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Sabostab® UV 26	Sabo S.p.A.	Polyethylene glycol, ether with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol	59535-09-0	HALS (Hindered Amine Light Stabilizer). Radical scavenger for use as light stabilizer in plastics
Sabostab® UV 40	Sabo S.p.A.	1,6-hexanediamine, N,N'-bis (2,2,6,6-tetra methyl-4-piperidinyl)-, polymer with 2,4,6-trichloro-1,3,5-triazine, reaction products with N-butyl-1-butanamine and N-butyl-2,2,6,6-tetramethyl-4-piperidineamine	192268-64-7	
Sabostab® UV 62	Sabo S.p.A.	Butanedioic acid, 1,4-dimethyl ester, polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol	65447-77-0	
Sabostab® UV 65	Sabo S.p.A.	Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	41556-26-7 82919-37-7	
Sabostab® UV 70	Sabo S.p.A.	Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate	52829-07-9	
Sabostab® UV 78	Sabo S.p.A.	1:1 mixture of Sabostab UV 62 and Sabostab UV 94	65447-77-0 71878-19-8	
Sabostab® UV 91	Sabo S.p.A.	Fatty acids, C12-C21 and C18 unsaturated, 2,2,6,6-tetramethyl-4-piperidinyl esters	86403-32-9 (EU) 167078-06-0 (non EU)	
Sabostab® UV 91 50PP	Sabo S.p.A.	Fatty acids, C12-C21 and C18 unsaturated, 2,2,6,6-tetramethyl-4-piperidinyl esters compounded in Polypropylene (1:1)	86403-32-9 (EU) 167078-06-0 (non EU) & 9003-07-0	
Sabostab® UV 94	Sabo S.p.A.	1,6-hexanediamine, N,N'-bis (2,2,6,6-tetramethyl-4-piperidinyl), polymer with 2,4,6-trichloro-1,3,5-triazine, reaction product with 2,4,4-trimethyl-2-pentaneamine	71878-19-8 (EU) 70624-18-9 (USA)	
Sabostab® UV 119	Sabo S.p.A.	N,N',N'',N'''-tetrakis(4,6-bis(butyl-(N-methyl-2,2,6,6-tetramethylpiperidin-4-yl)amino)triazin-2-yl)-4,7-diazadecane-1,10-diamine	106990-43-6	
Sabostab® UV 228 50PP	Sabo S.p.A.	Concentrate of 50% light stabilizers (combination) in PP		Blend

Antistats

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Sabostat® AL 100	Sabo S.p.A.	Ethanol, 2,2'-iminobis-, N-coco alkyl derivatives	61791-31-9	Ethoxylated alkylamine antistat for plastics
Sabostat® ASE 3	Sabo S.p.A.	Ethanol, 2,2'-iminobis-, N-tallow alkyl derivatives	61791-44-4	
Sabostat® ASE 6	Sabo S.p.A.	Ethanol, 2,2'-iminobis-, N-C14-C18 alkyl derivatives	90367-28-5 (EU) 71786-60-2 (US,CAN,JP)	
Sabostat® ASE	Sabo S.p.A.	2,2'-(octadecylimino)bisethanol	10213-78-2	
Sabostat® DELA	Sabo S.p.A.	N,N-bis(2-hydroxyethyl)-dodecaneamide	120-40-1	LDN (lauryl diethanolamide) antistat for plastics
Sabostat® A 300	Sabo S.p.A.	2-[(2-hydroxyethyl)-octadecylamino] ethyl stearate	52497-24-2	Antistat for plastics on the basis of stearyl diethanol amine monostearate
Sabostat® MOE	Sabo S.p.A.	Sorbitan, mono-9-octadecenoate, poly(oxy-1,2-ethanediyl) derivatives	9005-65-6	Polyoxyethylated sorbitan- monooleat as antistat and antifog for plastics
Sabostat® MLE	Sabo S.p.A.	Sorbitan, monododecanoate, poly(oxy-1,2-ethanediyl) derivatives	9005-64-5	Polyoxyethylated sorbitol- monolaurate as antistat and antifog for plastics

Antifog

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Sabofog® ML	Sabo S.p.A.	Sorbitan monolaurate	1338-39-2	Sorbitan ester as antifog for plastics
Sabofog® MS P	Sabo S.p.A.	Sorbitan monostearate	1338-41-6	
Sabofog® TOE	Sabo S.p.A.	Sorbitan trioleate	9005-70-3	
Sabofog® F1	Sabo S.p.A.	(Octadecylimino)diethylenedi stearate; 2-[(2-hydroxyethyl) octadecylamino] ethylstearate;2,2'-(octadecylimino) bisethanol	94945-28-5 52497-24-2 10213-78-2	Ethoxylated alkylamineester as antifog for plastics
Sabofog® M1	Sabo S.p.A.	Polyethoxy perfluorohexyl ethanol	52550-44-4	Antimist additive for agricultural films, preferably combined with antifog
Sabofog® PGS	Sabo S.p.A.	Mixture of tetraglycerol monostearate and polyglycerol-4-stearate	68004-11-5 26855-44-7	Polyglycerylester as antifog for plastics
Sabofog® PGL	Sabo S.p.A.	1,2,3-Propanetriol, homopolymer, dodecanoate	74504-64-6	

Brominated Flame Retardants

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Firemaster® 2100R	Lanxess	Decabromodiphenyl ethane	84852-53-9	Additive flame retardant for PP, PE, PS, PBT, EPDM, UP, EP a. o. applications
PDBS-80™	Lanxess	Polydibromostyrene	88497-56-7	Polymeric flame retardant for PA, PBT, PET
PHT4™	Lanxess	Tetrabromophthalic anhydride	632-79-1	Reactive flame retardant for PUR, UP a. o. applications
PHT4-Diol™	Lanxess	Tetrabromophthalate diol	20566-35-2	
PHT4-Diol LV™	Lanxess	Tetrabromophthalate diol	20566-35-2	Reactive flame retardant for EP, PC, PS, ABS a. o. applications
BA-59P™	Lanxess	Tetrabromobisphenol A	79-94-7	
BC-52™	Lanxess	Brominated aromatic carbonate oligomer	94334-64-2	Polymeric flame retardant for PBT, PET, PC, PS, ABS, SAN a. o. applications
BC-58™	Lanxess	Brominated aromatic carbonate oligomer	71342-77-3	Polymeric flame retardant for PBT, PET, PC, PS, ABS, SAN a. o. applications
BDDP of TBBA		Tetrabromobisphenol A bis (2,3-dibromopropyl ether)	21850-44-2	Additive flame retardant for polyolefins

Phosphorous Flame Retardants

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Emerald Innovation™ NH-1	Lanxess			Liquid flame retardant for PUR, PVC, coatings, adhesives a. o. applications
Reofos® 35	Lanxess	Phenol, isopropylated, phosphate (3:1) [Triphenyl phosphate > 5 %]	68937-41-7	Flame retardant plasticizer for PVC, phenolic laminates
Reofos® 50	Lanxess		68937-41-7	
Reofos® 65	Lanxess		68937-41-7	
Reofos® 95	Lanxess		68937-41-7	
BDP		Aromatic polyphosphate	5945-33-5	High molecular liquid flame retardant for PC, PC/ABS, PC/HIPS a. o. applications
BDP LV		Aromatic polyphosphate	5945-33-5	Low viscous version of BDP for application in PUR, EP a.o. resins
RDP		Resorcinol diphosphate	57583-54-7	Liquid flame retardant for PC, PC/ABS, PPO/HIPS a. o. applications
PX-200	Daihachi	Resorcinol-bridged dixylyl phosphate	139189-30-3	High molecular, solid flame retardant for PC, PC/ABS, PC/HIPS and in PUR, Epoxy, Acrylic a. o. resins

HFFR (Halogen Free Flame Retardants)

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
BLG	RMC Remacon	Expandable graphite	12777-87-6	Inorganic intumescent system for PUR, fire protection a. o. applications
EPFR-100 A	Presafer	Ammonium polyphosphate (APP) based intumescent system		HFFR for polyolefins with antidripping agent
EPFR-100 D	Presafer			HFFR for polyolefins without antidripping agent
MCA-15	Presafer	Melamincyanurate	37640-57-6	HFFR for TPE, TPU
MCA-25	Presafer		37640-57-6	HFFR for PA, PBT
MCA-50	Presafer		37640-57-6	HFFR for PA
EPFR-APP-Series	Presafer	High molecular APP with different coatings Carbonyl and acylate modified polyolefins Masterbatch system based on modified polyolefins combined with HFFR		HFFR for intumescent systems
Daiguard 850	Daihachi			HFFR with highest P content, high heat resistance and special FR mechanism for TPU, PUR, adhesives, paint & coating a. o. applications

FR Synergists

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Zinfram® CB	SCL Italia	Calcium borate	12040-58-3	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; synergist for Polymer, Rubber a. o. applications
Zinfram® ZHS	SCL Italia	Zinc hydroxystannate	12027-96-2	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; synergist for PVC, UP, PUR, Polyolefins, EP a. o. applications
Zinfram® ZS	SCL Italia	Zinc stannate	12036-37-2	Alternative to antimonytrioxide, reduction of smoke density, smoke toxicity and heat release rate; flame retardant and synergist for PA, PBT, PP a. o. applications
D-Pyre®	Bioenvision	Polyhedral Oligomer Silsesquioxanes (POSS)		Synergistic FR with antidripping effect, enables ATO replacement, application in PUR, PVC, PP, UP, VE, EP, a.o.
ATO		Antimonytrioxide	1309-64-4	Smoke Suppressant

Slip & Antiblock Agents

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
Innoslip E	Pathwel Co., Ltd.	Erucamide	112-84-5	Processing aid, slip and antiblock agent for plastics
Innoslip O	Pathwel Co., Ltd.	Oleamide	301-02-0	
EBS	ChemPlasa	Ethylene-Bis-Stearamide	68390-94-3	

Other Special Additives*

TRADE NAME	SUPPLIER	CHEMICAL NAME	CAS-NO.	CLASSIFICATION & APPLICATION
INDOPOL®	Ineos	Polybutene/PIB	9003-29-6	Plasticizer and tackifier
Cellcom®	Kumyang	Blowing Agents		Exothermic, endothermic and modified blowing agents systems
GNP, GP	RMC Remacon	Natural and synthetic graphite	7782-42-5	Graphite for thermal and electrical conductivity
THEIC		Tris (2-hydroxyethyl) Isocyanurate	839-90-7	PVC Stabilizer

*Selection; further information on special additives are available on request

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