

Nitrosamine-free/Safe products range

EKALAND™ VULTAC® MIXLAND+®

| EKALAND™ | CHEMICAL NAME | NA FREE | NA SAFE | CAN REPLACE | USED WITH |
|----------------------|--|---------|---------|-------------------------|--------------------------------|
| DATU LI (*) | BLEND OF DIALKYL THIOUREAS | X | | | CR |
| DBTU CRA | 1,3-DIBUTYL-2-THIOUREA | X | | | NR, SBR, NBR, IR, BR, CR |
| DETU CR | 1,3-DIETHYL-2-THIOUREA | X | | | CR, NR, SBR, NBR, EPDM |
| DMTU CR (*) | 1,3-DIMETHYL-2-THIOUREA | X | | | CR |
| DPTU PD | 1,3-DIPHENYL-2-THIOUREA | X | | | NR, SBR, NBR, EPDM |
| ETU C | IMIDAZOLIDINE-2-THIONE | X | | ETU (in EPDM compounds) | CR, CSM, CO, EPDM |
| PPDN 30 DX/NDX/35 HU | POLY-PARADINITROBENZENE | X | | TDEC in EPDM | For adhesion systems |
| SD C (*) | 5,5'-DITHIODI-1,3,4-THIADIAZOLE-2(3H)-THIONE | X | | ETU | CR, CSM, CO, EPDM |
| TBZTD C | THIOPEROXYDICARBONIC DIAMIDE | | X | TMTD, TMTM | CR, NR, IR, BR, SBR, NBR, EPDM |
| ZBEC C/PD | ZINC BIS(DIBENZYL DITHIOCARBAMATE) | | X | ZDMC, ZDEC, ZDBC | NR, SBR, NBR, IR, BR, CR, EPDM |

(*) Available only on request

| VULTAC® | CHEMICAL NAME | NA FREE | NA SAFE | CAN REPLACE | USED WITH |
|--------------|---|---------|---------|------------------------|------------------------------|
| VULTAC 2 | PARA TERTIOAMYLPHENOL DISULFIDE | X | | DTDM, TMTD, OTOS | NR, SBR, NBR |
| VULTAC 3 | PARA TERTIOAMYLPHENOL DISULFIDE POLYMER | X | | Phenolic resins | BIIR, CIIR, EXXPRO in pharma |
| VULTAC 5 | MIXTURE OF PARA TERTIOAMYLPHENOL DISULFIDE POLYMER WITH SILICAGEL | X | | DTDM, TMTD, OTOS | NR, SBR, NBR, CIIR, BIIR |
| VULTAC 710 | MIXTURE OF PARA TERTIOAMYLPHENOL DISULFIDE POLYMER WITH STEARIC ACID | X | | Phenolic resins | BIIR, CIIR, EXXPRO in pharma |
| VULTAC TB7 | PARA TERTIOBUTYLPHENOL DISULFIDE POLYMER | X | | DTDM, TMTD, OTOS, 6PPD | NR, SBR, NBR, BIIR, CIIR |
| VULTAC TB710 | MIXTURE OF PARA TERTIOBUTYLPHENOL DISULFIDE POLYMER WITH STEARIC ACID | X | | DTDM, TMTD, OTOS | NR, SBR, NBR, BIIR, CIIR |

| MIXLAND+® | CHEMICAL NAME | NA FREE | NA SAFE | CAN REPLACE | USED WITH |
|-----------|---|---------|---------|--------------------------------|---------------------------------|
| CBS | N-CYCLOHEXYLBENZOTHIAZOLE-2-SULFENAMIDE | X | | MBS, DCBS, TBBS | NR, IR, BR, SBR, NBR, IIR, EPDM |
| CTPI (*) | N-CYCLOHEXYLTHIOPHTALIMIDE | X | | | NR, SBR, NBR, IR, BR, CR, EPDM |
| DETU | 1,3-DIETHYL-2-THIOUREA | X | | | CR, NR, SBR, NBR, EPDM |
| DOTG | 1,3 DI-O-TOLYL GUANIDINE | X | | | CR, NR, SBR, ACM |
| DPG | 1,3-DIPHENYL GUANIDINE | X | | | NR, SBR, BR, CR, NBR |
| ETU | IMIDAZOLIDINE-2-THIONE | X | | | CR, CSM, CO, EPDM |
| HMT | HEXAMETHYLENETETRAMINE | X | | | CR, EPDM, SBR, BR, NBR |
| MBT | BENZOTHIAZOLE-2-THIOL | X | | MBS, TBBS | NR, IR, BR, SBR, NBR, IIR, EPDM |
| MBTS | DI(BENZOTHIAZOL-2-YL) DISULPHIDE | X | | MBS, TBBS | NR, IR, SBR, BR, NBR, EPDM, CR |
| MMBI (*) | 1,3-DIHYDRO-4(OR 5)-METHYL-2H-BENZIMIDAZOLE-2-THIONE | X | | | NR, IR, BR, SBR, NBR |
| PBS-R | N-PHENYL-N-[(TRICHLOROMETHYL)THIO]BENZENESULPHONAMIDE | X | | | NR, SBR, EPDM, BR, IR, NBR |
| SOUFRE | SULFUR | X | | | NR, SBR, EPDM, BR, IR, NBR, CR |
| SD | 5,5'-DITHIO-1,3,4-THIADIAZOLE-2(3H)-THIONE | X | | ETU | CR, EPDM, NR, NBR, SBR |
| TBBS | N-TERT-BUTYLBENZOTHIAZOLE-2-SULPHENAMIDE | X | | MBS | NR, IR, SBR, BR, NBR, EPDM |
| TBP 75 | PHENOL, 4-(1,1-DIMETHYLETHYL)-, POLYMER WITH SULFUR CHLORIDE | X | | TMTD, sulfur donors, OTOS | NR, IR, SBR, NBR, EPDM |
| TBzTD | TETRABENZYL THIURAM DISULFIDE | | X | TMTD, TMTM | NR, IR, BR, SBR, NBR, EPDM |
| ZBEC | ZINC BIS(DIBENZYL DITHIOCARBAMATE) | | X | ZDMC, ZDBC, ZDEC | NR, SBR, NBR, IR, BR, CR, EPDM |
| ZDTP | PHOSPHORODITHIOIC ACID, MIXED O, O-BIS(2-ETHYLHEXYL AND ISO-BU AND ISO-PR) ESTERS, ZINC SALTS | X | | Dithiocarbamates+Sulfur donors | NR, SBR, NBR, IR, BR, EPDM |
| ZnO | ZINC OXIDE | X | | | Various rubbers |

(*) Available only on request