附表1 环境中常见稳定剂、着色剂和功能性杀菌剂的监管信息及风险初评结果

Supplementary Table 1 Regulatory information and preliminary risk assessment of common stabilizer，colorant，and biocide additives in environment

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| No | Name | CAS RN | Function | Hazard classification | Hazard attribute | CoRap | Ecotoxicity data availability | ToxPi Score | HClust Group | Risk Screening level | Research-Oriented Classification | Plastic Additive Database |
| Cramer Class | Verhaar Class | PBT | PMT |
| 1 | chlorobenzene | 108-90-7 | 染料 | High | Class 1 |  | vPvM | 1 | 3 | 0.89  | 1 | P-Level 1 | R-Class 3 | CPPbd |
| 2 | Oxybenzone | 131-57-7 | 染料、光稳定剂 | High | Class 1 |  | PMT | 1 | 3 | 0.86  | 1 | P-Level 1 | R-Class 3 | CPPbd |
| 3 | titanium dioxide | 13463-67-7 | 光稳定剂、染料 | High |  Class 5 |  |  | 1 | 3 | 0.71  | 2 | P-Level 2 | R-Class 3 | CPPbd |
| 4 | m-phenylenediamine | 108-45-2 | 染料 | Low | Class 5 |  | vPvM & PMT | 1 | 1 | 0.63  | 1 | P-Level 1 | R-Class 3 | CPPbd |
| 5 | diethyl phthalate | 84-66-2 | 染料 | Low | Class 5 |  |  | 1 | 3 | 0.55  | 2 | P-Level 2 | R-Class 3 | CPPbd |
| 6 | Resorcinol | 108-46-3 | 光稳定剂 | Low |  Class 5 |  |  | 1 | 3 | 0.55  | 2 | P-Level 2 | R-Class 3 | EACH |
| 7 | disodium disulphite | 7681-57-4 | 抗氧化剂、染料 | High | Class 5 |  |  | 1 | 1 | 0.55  | 2 | P-Level 2 | R-Class 3 | CPPbd |
| 8 | 3-IODO-2-PROPYNYL-N-BUTYL CARBAMATE | 55406-53-6 | 杀菌剂 | High |  Class 4 |  |  |  | 3 | 0.50  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 9 | Carbendazim | 10605-21-7 | 杀菌剂 | High |  Class 4 |  |  |  | 3 | 0.50  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 10 | 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-methyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate | 57583-34-3 | 热稳定剂 | High |  Class 4 |  |  | 1 | 0 | 0.50  | 2 | P-Level 2 | R-Class 3 | EACH |
| 11 | 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol | 3147-75-9 | 光稳定剂 | High |  Class 5 | PBT |  |  | 1 | 0.49  | 5 | P-Level 4 | R-Class 1 | EACH |
| 12 | 2,2-iminodi(ethylamine) | 111-40-0 | 染料 | High | Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 13 | 2,4-dihydroxybenzophenone | 131-56-6 | 抗氧化剂、染料、光稳定剂 | High |  Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 14 | 4-Chloro-3-methylphenol | 59-50-7 | 杀菌剂 | High |  Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 15 | chlorine | 7782-50-5 | 抗氧化剂、染料 | High | Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 16 | D & C Yellow 11 | 8003-22-3 | 染料 | High |  Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 17 | iron oxide | 1309-33-7 | 染料 | High |  Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 18 | sodium thiosulphate | 7772-98-7 | 抗氧化剂、染料 | High |  Class 5 |  |  |  | 3 | 0.46  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 19 | cyanoguanidine | 461-58-5 | 染料 | High | Class 5 |  | vPvM |  | 0 | 0.44  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 20 | D & C Green No. 6 | 128-80-3 | 染料 | High |  Class 5 |  | vPvM |  | 0 | 0.44  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 21 | 1,2-BIS(3,5-DI-TERT-BUTYL-4- HYDROXYHYDROCINNAMOYL)HYDRAZINE | 32687-78-8 | 抗氧化剂、光稳定剂 | High | Class 5 | PBT |  |  | 0 | 0.41  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 22 | Triphenyl phosphite | 101-02-0 | 热稳定剂 | High |  Class 5 | PBT  |  | 1 | 0 | 0.41  | 5 | P-Level 4 | R-Class 1 | EACH |
| 23 | TRIS(2,4-DI-TERT-BUTYLPHENYL) PHOSPHITE | 31570-04-4 | 抗氧化剂、光稳定剂、染料 | High | Class 5 | PBT  |  |  | 0 | 0.41  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 24 | bis(2-dimethylaminoethyl)(methyl)amine | 3030-47-5 | 染料 | High | Class 1 |  | vPvM |  | 0 | 0.39  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 25 | diphosphorus pentaoxide | 1314-56-3 | 染料 | High | Class 5 |  |  |  | 2 | 0.38  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 26 | Phosphoric acid，silver(1+) sodium zirconium(4+) salt | 265647-11-8 | 抗菌剂 | High |  Class 5 |  |  |  | 2 | 0.38  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 27 | phenyl-beta-naphthylamine | 135-88-6 | 热稳定剂 | High | Class 5 |  |  |  | 2 | 0.33  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 28 | 2,4-Bis(1-methyl-1-phenylethyl)phenol | 2772-45-4 | 光稳定剂 | High |  Class 5 |  |  |  | 1 | 0.30  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 29 | 2,4-Dinitrophenol | 1326-82-5 | 染料 | High |  Class 5 |  |  |  | 1 | 0.30  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 30 | Soybean oil，epoxidized | 8013-07-8 | 染料、光稳定剂 | High |  Class 5 |  |  |  | 1 | 0.30  | 4 | P-Level 3 | R-Class 2 | CPPbd |
| 31 | pentane | 109-66-0 | 染料 | Low | Class 1 |  |  |  | 3 | 0.25  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 32 | Propylidynetrimethanol | 77-99-6 | 热稳定剂 | Low |  Class 1 |  |  |  | 3 | 0.25  | 3 | P-Level 5 | R-Class 4 | EACH |
| 33 | 2,2',5,5'-Tetrachlorobenzidine | 15721-02-5 | 染料 | High |  Class 4 |  |  |  | 0 | 0.25  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 34 | Poly[[6-[(1,1,3,3-tetramethylbutyl)amino]-1,3,5-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidinyl)imino]-1,6-hexanediyl[(2,2,6,6-tetramethyl-4-piperidinyl)imino]] | 71878-19-8 | 光稳定剂 | High |  Class 4 |  |  |  | 0 | 0.25  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 35 | poly[[6-[(1,1,3,3-tetramethylbutyl)aminol]-s-triazine-2,4-diyl][(2,2,6,6-tetramethyl-4-piperidyl)imino]]hexamethylylene[(2,2,6,6-tetramethyl-4-piperidyl)imino] | 70624-18-9 | 光稳定剂 | High |  Class 4 |  |  |  | 0 | 0.25  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 36 | 2,3-Dibromopropionic acid | 600-05-5 | 染料 | High |  Class 1 |  |  |  | 1 | 0.25  | 4 | P-Level 3 | R-Class 2 | PLASTICMAP |
| 37 | 1,2,3,4-Butanetetracarboxylic acid polymer with 2,2-bis(hydroxymethyl)-1,3-propane- diol and 3-hydroxy-2,2-dimethylpropanal，2,2,6,6-tetramethyl-4-piperidinyl ester | 101357-37-3 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 38 | 1,2-Phenylenediamine dihydrochloride | 615-28-1 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 39 | 1,6-HEXANEDIAMINE，N,N-BIS(2,2,6,6-TETRAMETHYL-4-PIPERIDINYL)-，POLYMER WITH 2,4,6-TRICHLORO-1,3,5-TRIAZINE，REACTION PRODUCTS WITH N-BUTYL-2,2,6,6-TETRAMETHYL-4-PIPERIDINAMINE | 192268-64-7 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 40 | 12H-Phthaloperin-12-one | 6925-69-5 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 41 | 14H-Benz[4,5]isoquino[2,1-a]perimidin-14-one | 6829-22-7 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 42 | 2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-((hexyl)oxy)phenol | 147315-50-2 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 43 | 2,2-(1,4-PHENYLENE)-BIS-[4H-3,1-BENZOXAZIN-4-ONE] | 18600-59-4 | 光稳定剂 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 44 | 2,2,2',2'-tetrakis(hydroxymethyl)-3,3'-oxydipropan-1-ol | 126-58-9 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 45 | 2,2'-methylenebis(6-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol) | 103597-45-1 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 46 | 2,4-Bis(2,4-dimethylphenyl)-6-(2-hydroxy-4-isooctyloxyphenyl)-1,3,5-triazine | 137759-38-7 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 47 | 2-Aminodiphenylamine | 534-85-0 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 48 | 2-ethylhexyl diphenyl phosphite | 15647-08-2 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 49 | 2H-1-Benzopyran-2-one，3-(5-chloro-2-benzoxazolyl)-7-(diethylamino)- | 35773-43-4 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 50 | 2,2-BIS(((2-CYANO-3,3-DIPHENYLACRYLOYL)OXY)METHYL)PROPANE-1,3-DIYL BIS(2-CYANO-3,3-DIPHENYLACRYLATE) | 178671-58-4 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 51 | 3,9-bis(2,4-di-tert-butylphenoxy)-2,4,8,10-tetraoxa-3,9-diphosphaspiro[5.5]undecane | 26741-53-7 | 抗氧化剂、光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 52 | 3-Methyl-6-(p-toluidino)-3H-dibenz(f,ij)isoquinoline-2,7-dione | 81-39-0 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 53 | 6-(Cyclohexylamino)-3-methyl-3H-dibenz(f,ij)isoquinoline-2,7-dione | 21295-57-8 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 54 | 6-Methoxy-2-benzothiazolamine | 1747-60-0 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 55 | 9,10-Anthracenedione，1,4-bis[(2,6-diethyl-4-methylphenyl)amino]- | 61969-44-6 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 56 | 9,10-Anthracenedione，1,4-bis[(4-butylphenyl)amino]-5,8-dihydroxy- | 71839-01-5  | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 57 | 9,10-Anthracenedione，1,4-diamino-2,3-diphenoxy- | 6408-72-6 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 58 | Azure blue | 57455-37-5 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 59 | bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | 41556-26-7 | 光稳定剂、染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 60 | bis(2,2,6,6-tetramethylpiperidin-4-yl) decanedioate | 52829-07-9 | 光稳定剂、染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 61 | Butanedioic acid，1,4-dimethyl ester，polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol | 65447-77-0 | 光稳定剂、染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 62 | Butanedioic acid，polymer with 4-hydroxy-2,2,6,6-tetramethyl-1-piperidineethanol | 70198-29-7 | 抗氧化剂、光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 63 | C.I. Direct Blue 71 | 4399-55-7 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 64 | C.I. Disperse Orange 47 | 12236-03-2 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 65 | C.I. Disperse Yellow 64 | 10319-14-9 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 66 | C.I. Reactive Red 120 | 61951-82-4 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 67 | C.I. Solvent Red 135 | 20749-68-2 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 68 | calcium bis[monoethyl(3,5-di-t-butyl-4-hydroxy-benzy)phosphonate] | 65140-91-2 | 抗氧化剂、光稳定剂 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 69 | calcium stearate | 1592-23-0 | 抗氧化剂、染料、热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 70 | cyclohexyldimethylamine | 98-94-2 | 染料 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 71 | erucamide | 112-84-5 | 染料 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 72 | Ethylene bis[3,3-bis(3-tert-butyl-4-hydroxyphenyl)butyrate] | 32509-66-3 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 73 | Fatty acids，C12-21 and C18-unsatd.，2,2,6,6-tetramethyl-4-piperidinyl esters | 167078-06-0 | 光稳定剂、染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 74 | Fluorescent Yellow 3G | 12671-74-8 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 75 | N-(2-ethoxyphenyl)-N'-(2-ethylphenyl)oxamide | 23949-66-8 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 76 | N-(3-(trimethoxysilyl)propyl)ethylenediamine | 1760-24-3 | 染料 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 77 | N,N,4-trimethylpiperazine-1-ethylamine | 104-19-8 | 染料 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 78 | 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 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 79 | N,N'-hexamethylene bis (3,5-di-t-butyl-4-hydroxy-hydrocinnamamide) | 23128-74-7 | 抗氧化剂、光稳定剂 | High | Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 80 | Pigment Red 264 | 88949-33-1 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 81 | POLY(2,4-DICHLORO-6-MORPHOLINO-S- TRIAZINE-CO-1,6-BIS(2,2,6,6-TETRAMETHYL- 4-PIPERIDYLAMINO)HEXANE) | 82451-48-7 | 光稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 82 | Propanedinitrile，[[4-[[2-(4-cyclohexylphenoxy)ethyl]ethylamino]-2-methylphenyl]methylene]- | 54079-53-7 | 染料 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 83 | Triisotridecyl phosphite | 77745-66-5 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 84 | Zinc bis[12-hydroxyoctadecanoate] | 35674-68-1 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 85 | Zinc dilaurate | 2452-01-9 | 热稳定剂 | High |  Class 5 |  |  |  | 0 | 0.21  | 5 | P-Level 4 | R-Class 1 | EACH |
| 86 | 2-Propenoic acid,2-methyl-，2-[3-(2H-benzotriazol-2-yl)-4-hydroxyphenyl]ethyl ester | 96478-09-0 | 光稳定剂 | High |  Class 3 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 87 | Benzenepropanoic acid，3,5-bis(1,1-dimethylethyl)-4-hydroxy-，C7-9-branched alkyl esters | 125643-61-0 | 抗氧化剂、光稳定剂 | Intermediate | Class 5 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 88 | Bis(1,2,2,6,6-pentamethyl-4-piperidyl) [[3,5-bis(1,1-dimethylethyl)-4-hydroxyphenyl]methyl]butylmalonate | 63843-89-0 | 光稳定剂 | Intermediate |  Class 5 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | EACH |
| 89 | C.I. Basic Orange 2 | 532-82-1 | 染料 | High |  Class 3 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 90 | C.I. Solvent Violet 36 | 61951-89-1 | 染料 | High |  Class 1 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | PLASTICMAP |
| 91 | hexamethylene bis[3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate] | 35074-77-2 | 抗氧化剂、光稳定剂 | Intermediate | Class 5 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 92 | Kaolin，calcined | 92704-41-1 | 染料 | High |  Class 3 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 93 | N,N'-1,6-hexanediylbis(N-(2,2,6,6-tetramethyl-piperidin-4-yl)formamide | 124172-53-8 | 光稳定剂 | High |  Class 3 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | EACH |
| 94 | octadecyl 3-(3,5-di-tert-butyl-4-hydroxyphenyl)propionate | 2082-79-3 | 抗氧化剂、光稳定剂 | Intermediate | Class 5 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 95 | pentaerythritol tetrakis (3-(3,5-di-t-butyl-4-hydroxyphenyl)propionate | 6683-19-8 | 抗氧化剂、光稳定剂 | Intermediate | Class 5 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 96 | sorbitan laurate | 1338-39-2 | 染料 | High | Class 1 |  |  |  | 0 | 0.16  | 5 | P-Level 4 | R-Class 1 | CPPbd |
| 97 | dibenzoyl peroxide | 94-36-0 | 染料 | Low | Class 5 |  |  |  | 1 | 0.13  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 98 | isopropyl myristate | 110-27-0 | 染料 | Low | Class 5 |  |  |  | 1 | 0.13  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 99 | 1-isopropyl-2,2-dimethyltrimethylene diisobutyrate | 6846-50-0 | 染料 | Low | Class 5 |  |  |  | 0 | 0.05  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 100 | 3-hydroxyphenyl benzoate | 136-36-7 | 光稳定剂 | Low | Class 5 |  |  |  | 0 | 0.05  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 101 | didodecyl 3,3-thiodipropionate | 123-28-4 | 抗氧化剂、光稳定剂、热稳定剂 | Low |  Class 5 |  |  |  | 0 | 0.05  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 102 | dioctadecyl 3,3-thiodipropionate | 693-36-7 | 抗氧化剂、光稳定剂 | Low | Class 5 |  |  |  | 0 | 0.05  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 103 | ethylenebis(oxyethylene) bis[3-(5-tert-butyl-4-hydroxy-m-tolyl)propionate] | 36443-68-2 | 抗氧化剂、光稳定剂 | Low | Class 1 |  |  |  | 0 | 0.00  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 104 | Graphite | 7782-42-5 | 染料 | Low | Class 1 |  |  |  | 0 | 0.00  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 105 | polybutene | 9003-29-6 | 染料 | Low | Class 1 |  |  |  | 0 | 0.00  | 3 | P-Level 5 | R-Class 4 | CPPbd |
| 106 | sebacic acid | 111-20-6 | 光稳定剂 | Low | Class 1 |  |  |  | 0 | 0.00  | 3 | P-Level 5 | R-Class 4 | CPPbd |