Audit - EU DK MAL Code

PPG VIKOTE 56 BLUE 1199

Denmark MAL Code

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Audit - MAL Code
EU Denmark MAL Code:- 5-3
The MAL Code calculations are performed with product and component data.
   Product is a Liquid
  PPG VIKOTE 56 BLUE 1199 - Components considered for the MAL Code calculation. {Denmark MAL Code}
     Hydrocarbons, C9, aromatics (42.42072%)
      CAS: 64742-95-6
      Density: 0.879
      Molecular Weight: 123
      Boiling Point: 172.5
      Vapour Pressure: 1.5
      No LBL Factor entered or estimated from CAS Number or Boiling Point.
      MAL Factor entered: 58. Limit: 0
      FAD entered: 1: Lower Limit: 0.1
      FAD 1 Quotient = 424.207
     acrylic resin (28.8252%)
      CAS: SUB110964
      Density: 1.1
      No LBL Factor entered or estimated from CAS Number or Boiling Point.
      No MAL Factor calculated.
      FAD: 1. (Default)
      FAD 1 Quotient = 28825.2
    XYLENES (14.6804002%)
      Organic Solvent.
      CAS: 1330-20-7
      Density: 0.86
      Relative Density: 0.861
      Molecular Weight: 106.17
      Boiling Point: 136.16
      Vapour Pressure: 6.7
      No LBL Factor entered or estimated from CAS Number or Boiling Point.
      MAL Factor entered: 46. Limit: 0
      FAD entered: 3; Lower Limit: 10
      FAD 3 Quotient = 1.468
      FAD 1 Quotient = 73.402
     ETHYLBENZENE (3.9251651%)
      Organic Solvent.
      Carcinogen.
      CAS: 100-41-4
      Density: 0.866
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Relative Density: 0.9 Molecular Weight: 106.18 Boiling Point: 136.1 Vapour Pressure: 9.30076 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 46. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.393 C14-C17 CHLORINATED HYDROCARBONS (3.57%) CAS: 85535-85-9 Density: 1.21 Vapour Pressure: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1: Lower Limit: 0 **FAD 1 Quotient = 3570** TITANIUM DIOXIDE (1.97726888%) CAS: 13463-67-7 Density: 4.1 Relative Density: 4.26 Molecular Weight: 79.9 Boiling Point: 2750 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1: Lower Limit: 0 FAD 1 Quotient = 1977.269 COPPER PHTALOCYANINE (1.89007%) CAS: 147-14-8 Density: 1.62 Molecular Weight: 576.1 Vapour Pressure: 0.000072 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 2 Quotient = 0.630 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (0.7254%) CAS: 220926-97-6 Density: 1.02 Vapour Pressure: 0.000326 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor from OEL: 0 R Phrases: Xn;R20

FAD: 1. (Default)

FAD 1 Quotient = 725.4

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (0.562658%)

CAS: 68953-58-2 Density: 1.7

No LBL Factor entered or estimated from CAS Number or Boiling Point.

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MAL Factor entered: 0. Limit: 0
 FAD entered: 1: Lower Limit: 0.1
 FAD 1 Quotient = 5.627
cyclohexanone (0.30783%)
 Organic Solvent.
 CAS: 108-94-1
 Density: 0.946
  Relative Density: 0.95
 Molecular Weight: 98.14
  Boiling Point: 154.3
 Vapour Pressure: 3.75
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 70. Limit: 0
 FAD entered: 1: Lower Limit: 0
 FAD 1 Quotient = 307.83
ETHYL ALCOHOL (0.275489125%)
 Organic Solvent.
 CAS: 64-17-5
 Density: 0.786
 Relative Density: 0.8
 Molecular Weight: 46.08
 Boiling Point: 78.29
 Vapour Pressure: 42.94865
 LBLFactor = 200 (CAS=64175)
 MAL Factor entered: 7. Limit: 0
 FAD entered: 1; Lower Limit: 0
 FAD 1 Quotient = 275.489
BLOCKED COPOLYMER (0.1305%)
 CAS: SUB100054
 Density: 1
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1; Lower Limit: 0.1
 FAD 1 Quotient = 1.305
N,N"-naphthalene-1,5-diylbis[N'-[3-[(2-ethylhexyl)oxy]propyl]urea] (0.1085%)
 CAS: 71216-01-8
 Density: 0
 Molecular Weight: 584.83
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 No MAL Factor calculated.
 FAD: 1. (Default)
 FAD 1 Quotient = 108.5
[[2,2',2"-[29H,31H-phthalocyaninetriyltris(methylene)]tris[1H-isoindole-1,3(2H)-dionato]](2-)-N29,N30,N31,N32]copper (0.1085%)
 CAS: 59160-79-1
 Density: 0
 Molecular Weight: 1053.49
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
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FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
 FAD 2 Quotient = 0.036
TOLUENE (0.07455432%)
 Organic Solvent.
 CAS: 108-88-3
 Density: 0.87
  Relative Density: 0.87
  Molecular Weight: 92.14
 Boiling Point: 110.6
 Vapour Pressure: 23.17
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 74. Limit: 0
 FAD entered: 1: Lower Limit: No limit specified. A very low value will be used.
 FAD 3 Quotient = 0.007
ALUMINUM HYDROXIDE (0.0742%)
  CAS: 21645-51-2
 Density: 2.42
 Molecular Weight: 78
 Vapour Pressure: 0.0675
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
  FAD 1 Quotient = 0.742
[N,N,N',N",N"-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper tris(dodecylbenzenesulphonate) (0.06293%)
 CAS: 75247-18-6
 Density: 0
 Molecular Weight: 1810.99
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
  FAD 2 Quotient = 0.021
non-hazardous polymer (0.0546%)
 CAS: SUB137438
 Density: 0
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 No MAL Factor calculated.
 FAD: 1. (Default)
  FAD 1 Quotient = 54.6
1-METHOXY-2-PROPYL ACETATE (0.05404857844422%)
  Organic Solvent.
 CAS: 108-65-6
 Density: 0.962
 Relative Density: 0.96
 Molecular Weight: 132.18
  Boiling Point: 145.8
 Vapour Pressure: 2.7
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 19. Limit: 0
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FAD entered: 1: Lower Limit: 0
 FAD 1 Quotient = 54.049
N-BUTYL ACETATE (0.0354335896%)
 Organic Solvent.
 CAS: 123-86-4
 Density: 0.881
 Relative Density: 0.88
 Molecular Weight: 116.18
 Boiling Point: 126
 Vapour Pressure: 11.25096
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 14. Limit: 0
 FAD entered: 1: Lower Limit: 0
 FAD 1 Quotient = 35.434
TITANIUM DIOXIDE (<10 microns) (0.01977112%)
  Carcinogen.
 CAS: 13463-67-7
 Density: 4.1
 Relative Density: 4.26
 Molecular Weight: 79.9
 Boiling Point: 2750
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1: Lower Limit: 0
 FAD 1 Quotient = 19.771
CARBON BLACK (0.017052%)
 CAS: 1333-86-4
 Density: 1.8
 Relative Density: 1.95
 Molecular Weight: 12.01
 Boiling Point: 4200
 Vapour Pressure: 0
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
 FAD 6 Quotient = 0.001
 FAD 3 Quotient = 0.002
TRIMETHYLOLPROPANE (0.01696%)
  CAS: 77-99-6
  Density: 1.084
 Molecular Weight: 134.2
 Boiling Point: 304.2
 Vapour Pressure: 0
 No LBL Factor entered or estimated from CAS Number or Boiling Point.
 MAL Factor entered: 0. Limit: 0
 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
 FAD 1 Quotient = 0.170
SILICA (0.01484%)
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CAS: 7631-86-9 Density: 2 Relative Density: 2.2 Molecular Weight: 60.08 Boiling Point: 2230 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 R Phrases: None FAD: 1. (Default) FAD 1 Quotient = 14.84 METHYL ALCOHOL (0.0145024203452%) Organic Solvent. CAS: 67-56-1 Density: 0.792 Relative Density: 0.79 Molecular Weight: 32.05 Boiling Point: 64.7 Vapour Pressure: 126.96329 LBLFactor = 100 (BP=64.7) MAL Factor entered: 54. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.001 FAD 3 Quotient = 0.015 QUARTZ (>10 microns) (0.0116%) Carcinogen. CAS: 14808-60-7 Density: 0 Relative Density: 2.6 Molecular Weight: 60.09 Boiling Point: 2230 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 1 Quotient = 0.116 WATER (0.0106136545156%) CAS: 7732-18-5 Density: 1 Molecular Weight: 18.02 Boiling Point: 100 Vapour Pressure: 17.5 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 0; Lower Limit: 0 acrylic copolymer (0.0096813808%) CAS: SUB110897 Density: 1.09

No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated.

FAD: 1. (Default) FAD 1 Quotient = 9.681 ZIRCONIUM OXIDE (0.00636%) CAS: 1314-23-4 Density: 5.85 Molecular Weight: 123.22 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 1 Quotient = 0.064 QUARTZ (<10 microns) (0.005742%) Carcinogen. CAS: 14808-60-7 Density: 0 Relative Density: 2.6 Molecular Weight: 60.09 Boiling Point: 2230 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.001 FAD 3 Quotient = 0.006 BENZENE (0.00277818%) Organic Solvent. Carcinogen. CAS: 71-43-2 Density: 0.877 Relative Density: 0.88 Molecular Weight: 78.12 Boiling Point: 80.09 Vapour Pressure: 75.00609 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 880. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.028 BLOCK COPOLYMER (0.0023533328%) CAS: SUB101356 Density: 1.1 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 2.353 Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.00216969%) CAS: 63148-56-1 Density: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default)

FAD 1 Quotient = 2.170 DIMETHYL GLUTARATE (0.0008096054694%) CAS: 1119-40-0 Density: 1.09 Molecular Weight: 160.17 Boiling Point: 216 Vapour Pressure: 0.062 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 4. Limit: 0 FAD entered: 1: Lower Limit: 0 FAD 1 Quotient = 0.810 2-METHOXY-1-PROPYL ACETATE (0.000351511111152%) Organic Solvent. CAS: 70657-70-4 Density: 0.97 Molecular Weight: 132.18 Boiling Point: 150.5 Vapour Pressure: 2.9 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 181. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.002 organotin compound (0.0002871%) CAS: SUB143296 Density: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor from OEL: 0 R Phrases: None FAD: 1. (Default) FAD 1 Quotient = 0.287 DIMETHYL SUCCINATE (0.0002771295254%) CAS: 106-65-0 Density: 1.119 Molecular Weight: 146.16 Boiling Point: 196.2 Vapour Pressure: 0.18 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 5. Limit: 0 FAD entered: 1; Lower Limit: 0 FAD 1 Quotient = 0.277 DIMETHYL ADIPATE (0.0001204121737%) CAS: 627-93-0 Density: 1.062 Molecular Weight: 174.22 Boiling Point: 230.9 Vapour Pressure: 0.021 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 1 Quotient = 0.001METHYL METHACRYLATE (0.00008642361182%) Organic Solvent. CAS: 80-62-6 Density: 0.94 Relative Density: 0.94 Molecular Weight: 100.13 Boiling Point: 100.36 Vapour Pressure: 27.75236 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 46. Limit: 0 FAD entered: 1: Lower Limit: No limit specified. A very low value will be used. FAD 5 Quotient = 0.000 FAD 3 Quotient = 0.000 CUMENE (0.000058%) Organic Solvent. CAS: 98-82-8 Density: 0.86 Relative Density: 0.9 Molecular Weight: 120.21 Boiling Point: 152 Vapour Pressure: 3.72032 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 1. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000 2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.00004147434382%) CAS: 7534-94-3 Density: 0.983 Molecular Weight: 222.33 Boiling Point: 275 Vapour Pressure: 0.009 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 5 Quotient = 0.000FAD 3 Quotient = 0.000 N-BUTYL METHACRYLATE (0.00004107671568%) Organic Solvent. CAS: 97-88-1 Density: 0.89 Relative Density: 0.9 Molecular Weight: 142.22 **Boiling Point: 163** Vapour Pressure: 1.59014 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 16. Limit: 0

FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 5 Quotient = 0.000 PROPYLENE GLYCOL MONOMETHYL ETHER (0.0000233457952%) Organic Solvent. CAS: 107-98-2 Density: 0.92 Relative Density: 0.92 Molecular Weight: 90.14 Boiling Point: 120.17 Vapour Pressure: 8.5 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 28. Limit: 0 FAD entered: 1: Lower Limit: 0 FAD 1 Quotient = 0.023 2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.000003457636%) CAS: 3775-90-4 Density: 0.914 Relative Density: 0.9 Molecular Weight: 185.3 Boiling Point: 215 Vapour Pressure: 0.04 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000 FAD 5 Quotient = 0.000 DENATONIUM BENZOATE (0.000002755%) CAS: 3734-33-6 Density: 0 Molecular Weight: 446.59 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 0.003 ACETIC ACID (0.0000022492936%) Organic Solvent. CAS: 64-19-7 Density: 1.04 Relative Density: 1.05 Molecular Weight: 60.06 Boiling Point: 117.9 Vapour Pressure: 15.59383 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 400. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 4 Quotient = 0.000 FAD 3 Quotient = 0.000 1-BUTANOL (0.0000019007688%)

Organic Solvent. CAS: 71-36-3 Density: 0.81 Relative Density: 0.81 Molecular Weight: 74.14 Boiling Point: 119 Vapour Pressure: 6.750576 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 67. Limit: 0 FAD entered: 1: Lower Limit: 0 FAD 1 Quotient = 0.002 BUTYLATED HYDROXYTOLUENE (0.0000007600635%) CAS: 128-37-0 Density: 1.03 Relative Density: 1.048 Molecular Weight: 220.39 Boiling Point: 265 Vapour Pressure: 0.00825 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000 ACETONE (0.000000435%) Organic Solvent. CAS: 67-64-1 Density: 0.791 Relative Density: 0.8 Molecular Weight: 58.09 Boiling Point: 56.05 Vapour Pressure: 180.01463 LBLFactor = 100 (BP=56.05) MAL Factor entered: 23. Limit: 0 FAD entered: 1; Lower Limit: 0 FAD 1 Quotient = 0.000 ISOBUTYL METHACRYLATE (0.00000041491632%) Organic Solvent. CAS: 97-86-9 Density: 0.88 Relative Density: 0.8858 Molecular Weight: 142.22 Boiling Point: 155 Vapour Pressure: 1.58263 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 1. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000 FAD 5 Quotient = 0.000 OCTAMETHYLCYCLOTETRASILOXANE (0.00000031%)

CAS: 556-67-2 Density: 0.95 Relative Density: 0.96 Molecular Weight: 296.68 Boiling Point: 175 Vapour Pressure: 0.99008 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 1. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000 TIN (0.00000004978204%) CAS: 7440-31-5 Density: 7.2 Relative Density: 7.28 Molecular Weight: 118.69 Boiling Point: 2260 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor from OEL: 0 R Phrases: None FAD: 1. (Default) FAD 1 Quotient = 0.0004-METHOXYPHENOL (0.0000001728818%) CAS: 150-76-5 Density: 1.6 Relative Density: 1.55 Molecular Weight: 124.15 Boiling Point: 243 Vapour Pressure: 0.00675 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 5 Quotient = 0.000 Density = 0.98. Entered value. Figure-before-the dash = 5 Hydrocarbons, C9, aromatics (@42.42%). MAL Factor = 58. Total increased by 42.42*58=2460.40. Running Total = 2460.40 XYLENES(@14.68%). MAL Factor = 46. Total increased by 14.68*46=675.30. Running Total = 3135.70 ETHYLBENZENE(@3.93%). MAL Factor = 46. Total increased by 3.93*46=180.56. Running Total = 3316.26 C14-C17 CHLORINATED HYDROCARBONS(@3.57%), MAL Factor = 0. Total increased by 3.57*0=0. Running Total = 3316.26 TITANIUM DIOXIDE(@1.98%), MAL Factor = 0. Total increased by 1.98*0=0. Running Total = 3316.26 COPPER PHTALOCYANINE(@1.89%). MAL Factor = 0. Total increased by 1.89*0=0. Running Total = 3316.26 12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine(@0.73%). MAL Factor = 0. Total increased by 0.73*0=0.00. Running Total = 3316.26 QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE(@0.56%), MAL Factor = 0. Total increased by 0.56*0=0. Running Total = 3316.26 cyclohexanone(@0.31%). MAL Factor = 70. Total increased by 0.31*70=21.55. Running Total = 3337.81 ETHYL ALCOHOL(@0.28%). MAL Factor = 7. Total increased by 0.28*7=1.93. Running Total = 3339.73 BLOCKED COPOLYMER(@0.13%). MAL Factor = 0. Total increased by 0.13*0=0. Running Total = 3339.73 [[2,2',2"-[29H,31H-phthalocyaninetriyltris(methylene)]tris[1H-isoindole-1,3(2H)-dionato]](2-)-N29,N30,N31,N32]copper(@0.11%). MAL Factor = 0. Total increased by

0.11*0=0. Running Total = 3339.73

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TOLUENE(@0.07%). MAL Factor = 74. Total increased by 0.07*74=5.52. Running Total = 3345.25
    ALUMINUM HYDROXIDE(@0.07%), MAL Factor = 0. Total increased by 0.07*0=0. Running Total = 3345.25
    [N,N,N',N'',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper tris(dodecylbenzenesulphonate)(@0.06%). MAL Factor = 0. Total
increased by 0.06*0=0. Running Total = 3345.25
    1-METHOXY-2-PROPYL ACETATE(@0.05%). MAL Factor = 19. Total increased by 0.05*19=1.03. Running Total = 3346.28
    N-BUTYL ACETATE(@0.04%), MAL Factor = 14. Total increased by 0.04*14=0.50. Running Total = 3346.77
    TITANIUM DIOXIDE (<10 microns)(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 3346.77
    CARBON BLACK(@0.02%), MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 3346.77
    TRIMETHYLOLPROPANE(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 3346.77
    SILICA(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3346.77
    METHYL ALCOHOL (@0.01%). MAL Factor = 54. Total increased by 0.01*54=0.78. Running Total = 3347.56
    QUARTZ (>10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3347.56
    WATER(@0.01%), MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3347.56
    ZIRCONIUM OXIDE(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3347.56
    QUARTZ (<10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3347.56
    BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00*880=2.44. Running Total = 3350.00
    DIMETHYL GLUTARATE(@0.00%). MAL Factor = 4. Total increased by 0.00*4=0.00. Running Total = 3350.01
    2-METHOXY-1-PROPYL ACETATE(@0.00%), MAL Factor = 181, Total increased by 0.00*181=0.06, Running Total = 3350.07
    organotin compound(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3350.07
    DIMETHYL SUCCINATE(@0.00%). MAL Factor = 5. Total increased by 0.00*5=0.00. Running Total = 3350.07
    DIMETHYL ADIPATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3350.07
    METHYL METHACRYLATE(@0.00%), MAL Factor = 46. Total increased by 0.00*46=0.00. Running Total = 3350.07
    CUMENE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3350.07
    2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3350.07
    N-BUTYL METHACRYLATE(@0.00%), MAL Factor = 16. Total increased by 0.00*16=0.00, Running Total = 3350.08
    PROPYLENE GLYCOL MONOMETHYL ETHER(@0.00%). MAL Factor = 28. Total increased by 0.00*28=0.00. Running Total = 3350.08
    2-TERT-BUTYLAMINOETHYL METHACRYLATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3350.08
    ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by 0.00*400=0.00. Running Total = 3350.08
    1-BUTANOL(@0.00%), MAL Factor = 67. Total increased by 0.00*67=0.00, Running Total = 3350.08
    BUTYLATED HYDROXYTOLUENE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3350.08
    ACETONE(@0.00%). MAL Factor = 23. Total increased by 0.00*23=0.00. Running Total = 3350.08
    ISOBUTYL METHACRYLATE(@0.00%), MAL Factor = 1, Total increased by 0.00*1=0.00, Running Total = 3350.08
    OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3350.08
    TIN(@0.00\%), MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3350.08
    4-METHOXYPHENOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3350.08
    Figure-before-the-dash calculated as 5. Via MAL Factor Total * Density (3350.08 * 0.98) giving a MAL Number of 3283
  MAL Number = Density (0.98) * Sum (3350.08) = 3283
  Figure-after-the-dash = 3. Calculated from component data.
    Hydrocarbons, C9, aromatics (@42.42%) Increasing Total for FAD1 by 424.2072, giving 424.2072
    acrylic resin (@28.83%) Increasing Total for FAD1 by 28825.2, giving 29249.4072
    XYLENES (@14.68%) Increasing Total for FAD3 by 1.46804002, giving 1.46804002
    XYLENES (@14.68%) Increasing Total for FAD1 by 73.402001, giving 29322.809201
    ETHYLBENZENE (@3.93%) Increasing Total for FAD3 by 0.39251651, giving 1.86055653
    C14-C17 CHLORINATED HYDROCARBONS (@3.57%) Increasing Total for FAD1 by 3570, giving 32892.809201
    TITANIUM DIOXIDE (@1.98%) Increasing Total for FAD1 by 1977.26888, giving 34870.078081
    12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (@0.73%) Increasing Total for FAD1 by 725.4, giving
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35595.478081

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QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (@0.56%) Increasing Total for FAD1 by 5.62658, giving 35601.104661
    cyclohexanone (@0.31%) Increasing Total for FAD1 by 307.83, giving 35908.934661
    ETHYL ALCOHOL (@0.28%) Increasing Total for FAD1 by 275.489125, giving 36184.423786
    BLOCKED COPOLYMER (@0.13%) Increasing Total for FAD1 by 1.305, giving 36185,728786
    N,N"-naphthalene-1,5-diylbis[N'-[3-[(2-ethylhexyl)oxy]propyl]urea] (@0.11%) Increasing Total for FAD1 by 108.5, giving 36294.228786
    [[2,2',2"-[29H,31H-phthalocyaninetriyltris(methylene)]tris[1H-isoindole-1,3(2H)-dionato]](2-)-N29,N30,N31,N32]copper (@0.11%) Increasing Total for FAD2 by
TOLUENE (@0.07%) Increasing Total for FAD3 by 0.007455432, giving 1.868011962
    ALUMINUM HYDROXIDE (@0.07%) Increasing Total for FAD1 by 0.742, giving 36294.970786
    [N,N,N',N'',N'',N'',-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper tris(dodecylbenzenesulphonate) (@0.06%) Increasing Total for FAD2
non-hazardous polymer (@0.05%) Increasing Total for FAD1 by 54.6, giving 36349.570786
    1-METHOXY-2-PROPYL ACETATE (@0.05%) Increasing Total for FAD1 by 54.04857844422, giving 36403.61936444422
    N-BUTYL ACETATE (@0.04%) Increasing Total for FAD1 by 35.4335896, giving 36439.05295404422
    TITANIUM DIOXIDE (<10 microns) (@0.02%) Increasing Total for FAD1 by 19.77112, giving 36458.82407404422
    CARBON BLACK (@0.02%) Increasing Total for FAD6 by 0.00068208, giving 0.00068208
    CARBON BLACK (@0.02%) Increasing Total for FAD3 by 0.0017052, giving 1.869717162
    TRIMETHYLOLPROPANE (@0.02%) Increasing Total for FAD1 by 0.1696, giving 36458,99367404422
    SILICA (@0.01%) Increasing Total for FAD1 by 14.84, giving 36473.83367404422
    METHYL ALCOHOL (@0.01%) Increasing Total for FAD6 by 0.00072512101726, giving 0.00140720101726
    METHYL ALCOHOL (@0.01%) Increasing Total for FAD3 by 0.0145024203452, giving 1.8842195823452
    QUARTZ (>10 microns) (@0.01%) Increasing Total for FAD1 by 0.116, giving 36473.94967404422
    acrylic copolymer (@0.01%) Increasing Total for FAD1 by 9.6813808, giving 36483.63105484422
    ZIRCONIUM OXIDE (@0.01%) Increasing Total for FAD1 by 0.0636, giving 36483.69465484422
    QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD6 by 0.0005742, giving 0.00198140101726
    QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD3 by 0.005742, giving 1.8899615823452
    BENZENE (@0.00%) Increasing Total for FAD6 by 0.0277818, giving 0.02976320101726
    BLOCK COPOLYMER (@0.00%) Increasing Total for FAD1 by 2.3533328, giving 36486.04798764422
    Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (@0.00%) Increasing Total for FAD1 by 2.16969, giving 36488.21767764422
    DIMETHYL GLUTARATE (@0.00%) Increasing Total for FAD1 by 0.8096054694, giving 36489.02728311362
    2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.0017575555576, giving 0.03152075657486
    organotin compound (@0.00%) Increasing Total for FAD1 by 0.2871, giving 36489.31438311362
    DIMETHYL SUCCINATE (@0.00%) Increasing Total for FAD1 by 0.2771295254, giving 36489.59151263902
    DIMETHYL ADIPATE (@0.00%) Increasing Total for FAD1 by 0.001204121737, giving 36489.592716760757
    METHYL METHACRYLATE (@0.00008642361182%) Increasing Total for FAD5 by 0.000017284722364, giving 0.000017284722364
    METHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00008642361182, giving 1.89004800595702
    CUMENE (@0.00%) Increasing Total for FAD3 by 0.000058, giving 1.89010600595702
    2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00004147434382%) Increasing Total for FAD5 by 0.000008294868764, giving
0.000025579591128
    2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00%) Increasing Total for FAD3 by 0.00004147434382, giving 1.89014748030084
    N-BUTYL METHACRYLATE (@0.00004107671568%) Increasing Total for FAD5 by 0.00004107671568, giving 0.000066656306808
    PROPYLENE GLYCOL MONOMETHYL ETHER (@0.00%) Increasing Total for FAD1 by 0.0233457952, giving 36489.616062555957
    2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.000003457636%) Increasing Total for FAD5 by 0.0000006915272, giving 0.000067347834008
    2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000003457636, giving 1.89015093793684
    DENATONIUM BENZOATE (@0.00%) Increasing Total for FAD1 by 0.002755, giving 36489.618817555957
    ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000000089971744, giving 0.000000089971744
    ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.00000022492936, giving 1.89015116286620
    1-BUTANOL (@0.00%) Increasing Total for FAD1 by 0.0019007688, giving 36489.620718324757
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BUTYLATED HYDROXYTOLUENE (@0.00%) Increasing Total for FAD3 by 0.00000007600635, giving 1.89015123887255

ACETONE (@0.00%) Increasing Total for FAD1 by 0.000435, giving 36489.621153324757

ISOBUTYL METHACRYLATE (@0.00000041491632%) Increasing Total for FAD5 by 0.000000082983264, giving 0.000067430817272

ISOBUTYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00000041491632, giving 1.89015165378887

OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.00000031, giving 1.89015196378887

TIN (@0.00%) Increasing Total for FAD1 by 0.00004978204, giving 36489.621203106797

4-METHOXYPHENOL (@0.00000001728818%) Increasing Total for FAD5 by 0.00000001728818, giving 0.000067448105452

Figure-after-the-dash =3. Total of components with FAD=3 is >=1.

Low Boiling Liquid = False.

ETHYL ALCOHOL (@0.28%) Total increased by 0.28*7/200=0.01. Running Total = 0.01

METHYL ALCOHOL (@0.01%) Total increased by 0.01*54/100=0.01. Running Total = 0.02

ACETONE (@0.00%) Total increased by 0.00*23/100=0.00. Running Total = 0.02

Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.02

Recommended Usage Temperature is < 40C, hence no MAL Code in use is assigned.

Audit - RFU MAL Code

EU Denmark RFU MAL Code:-

Nothing was found

New Fields for IA3.3

MAL-code : 5-3

MAL Number : **3**283.08

MAL Number (RFU) : Not applicable.

Protection based on MAL

: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 5-3

Application: When spraying in new* booths if the operator is outside the spray zone. During non-atomizing spraying in existing* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask must be worn.

When using scraper or knife, brush, roller, etc. for pre- and post-treatments in cabins or booths of the existing* facility type, if the operator is inside the spray zone.

During downtimes, cleaning and repair of closed facilities, spray booths or cabins, if there is a risk of contact with wet paint or organic solvents.

- Air-supplied full mask and coveralls must be worn.

When spraying in existing* spray booths, if the operator is outside the spray zone.

- Air-supplied full mask, arm protectors and apron must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operator is inside the spray zone and during spraying outside a closed facility, cabin or booth.

- Air-supplied full mask, coveralls and hood must be worn.

Drying: Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

Polishing: When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

Caution The regulations contain other stipulations in addition to the above.

*See Regulations.

Protection based on R-F-U MAL

: Not available.

Not available.

Not available.