# Audit - EU DK MAL Code

## SIGMADUR 550 BASE YELLOW 3138

# **Denmark MAL Code**

### Audit - MAL Code

U Denmark MAL Code:- 4-3 The MAL Code calculations are performed with product and component data. Product is a Liquid SIGMADUR 550 BASE YELLOW 3138 - Components considered for the MAL Code calculation. {Denmark MAL Code} hydroxy acrylic resin (36.5982%) CAS: SUB109728 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 = 36598.2 XYLENES (27.3422801402%) 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 = 2.734 FAD 1 Quotient = 136.711 MONOAZO PIGMENT OF THE BENZIMIDAZOLONE RANGE (9.121%) CAS: 68134-22-5 Density: 1.586 Molecular Weight: 405.34 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 = 91.21 N-BUTYL ACETATE (7.4534615%) 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 = 7453.462 TITANIUM DIOXIDE (6.0597095%) 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 = 6059.710 ETHYLBENZENE (4.87980152%) Organic Solvent. Carcinogen. CAS: 100-41-4 Density: 0.866 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 = 0.488 BARIUM SULPHATE (3.848%) CAS: 13462-86-7 Density: 4.4 Molecular Weight: 235.41 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 0. Limit: 0 FAD entered: 2; Lower Limit: 2 FAD 2 Quotient = 1.924N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (1.853%) CAS: 55349-01-4 Density: 1.06 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 = 18.53 2,6-DIMETHYLHEPTANONE (0.57%) Organic Solvent. CAS: 108-83-8 Density: 0.81 Relative Density: 0.805

Molecular Weight: 142.27 Boiling Point: 168.26 Vapour Pressure: 1.72514 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 47. Limit: 0 FAD entered: 1: Lower Limit: 0 FAD 1 Quotient = 570 2-BUTOXY ETHANOL (0.57%) Organic Solvent. CAS: 111-76-2 Density: 0.9 Relative Density: 0.9 Molecular Weight: 118.18 Boiling Point: 171.25 Vapour Pressure: 0.75006 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 25. Limit: 0 FAD entered: 1: Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.057 Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (0.428%) CAS: 1065336-91-5 Density: 0.992 Molecular Weight: 878.31 Boiling Point: 330 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 428 BLOCKED COPOLYMER (0.2565%) 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 = 2.565 cyclohexanone (0.24225%) 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 = 242.25 ALUMINUM HYDROXIDE (0.224315%)

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: 0.1 FAD 1 Quotient = 2.243TOLUENE (0.0977041192%) 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 = 0.0102-HYDROXYETHYL METHACRYLATE (0.0975952%) CAS: 868-77-9 Density: 1.07 Molecular Weight: 130.16 Boiling Point: 213 Vapour Pressure: 0.06001 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 = 0.098FAD 5 Quotient = 0.020 1-METHOXY-2-PROPYL ACETATE (0.07125%) 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 FAD entered: 1; Lower Limit: 0 FAD 1 Quotient = 71.25 SILICA (0.06409%) 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 = 64.09Siloxanes and Silicones, di-Me, [(triethoxysilyl)oxy]-terminated (0.04275%) CAS: 67923-21-1 Density: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 42.75ALKOXYLATED BUTYL ETHER (0.0424821683%) CAS: 9038-95-3 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: No limit specified. A very low value will be used. FAD 3 Quotient = 0.021ZIRCONIUM OXIDE (0.032045%) 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 = 0.320TRIMETHYLOLPROPANE (0.0288405%) 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 = 0.288 1-BUTANOL (0.022233%) 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 = 22.233 proprietary siloxane (0.0197626%) CAS: SUB127499 Density: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 19.763 ISOBUTYL ALCOHOL (0.014157%) Organic Solvent. CAS: 78-83-1 Density: 0.802 Relative Density: 0.8 Molecular Weight: 74.14 Boiling Point: 108 Vapour Pressure: 10.800918 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 = 14.157 proprietary polyglycol (0.0119977%) CAS: SUB127500 Density: 0 No LBL Factor entered or estimated from CAS Number or Boiling Point. No MAL Factor calculated. FAD: 1. (Default) FAD 1 Quotient = 11.998 BENZENE (0.0036717276%) 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 = 0.037WATER (0.0029644%) 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 DIBUTYL TIN DILAURATE (0.0013871%) CAS: 77-58-7 Density: 1.066 Relative Density: 1.1 Molecular Weight: 631.65 Boiling Point: 385 Vapour Pressure: 0.000000058 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 ACETIC ACID (0.0007411%) 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 2-METHOXY-1-PROPYL ACETATE (0.0005643%) 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 = 0.003 organotin compound (0.0005643%) 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 = 0.564OCTAMETHYLCYCLOTETRASILOXANE (0.0002574%) 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 Decamethylcyclopentasiloxane (0.0002574%) CAS: 541-02-6 Density: 0.96 Molecular Weight: 370.85 Boiling Point: 210 Vapour Pressure: 0.25 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 = 0.003CUMENE (0.000121007%) 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 COCONUT FATTY ACIDS (0.0000429%) CAS: 61788-47-4 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: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000PROPYLENE OXIDE (0.0000021307%) Organic Solvent. Carcinogen. CAS: 75-56-9 Density: 0.83 Relative Density: 0.8 Molecular Weight: 58.09 Boiling Point: 34.23 Vapour Pressure: 538 LBLFactor = 100 (BP=34.23)

MAL Factor entered: 1. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.000 ACETALDEHYDE (0.0000002717%) Organic Solvent. Carcinogen. CAS: 75-07-0 Density: 0 Relative Density: 0.78 Molecular Weight: 44.06 Boiling Point: 20.1 Vapour Pressure: 900.07313 LBLFactor = 100 (BP=20.1) MAL Factor entered: 1. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 3 Quotient = 0.000HYDROCHLORIC ACID (0.0000002717%) CAS: 7647-01-0 Density: 0.86 Molecular Weight: 36.46 Boiling Point: 109.85 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 2900. 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 FORMALDEHYDE (0.000002002%) Carcinogen. CAS: 50-00-0 Density: 1.09 Relative Density: 0.812 Molecular Weight: 30.03 **Boiling Point: 98** Vapour Pressure: 1 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 2500. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.000 FAD 3 Quotient = 0.000 ETHYLENE OXIDE (0.0000002002%) Carcinogen. CAS: 75-21-8 Density: 0.882 Relative Density: 0.9 Molecular Weight: 44.06 Boiling Point: 10.7 Vapour Pressure: 1314.1117 LBLFactor = 100 (BP=10.7)

MAL Factor entered: 11. Limit: 0 FAD entered: 1: Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.0001,4-DIOXANE (0.0000001144%) Organic Solvent. Carcinogen. CAS: 123-91-1 Density: 1.03 Relative Density: 1.03 Molecular Weight: 88.12 Boiling Point: 101.15 Vapour Pressure: 30.7525 No LBL Factor entered or estimated from CAS Number or Boiling Point. MAL Factor entered: 390. Limit: 0 FAD entered: 1; Lower Limit: No limit specified. A very low value will be used. FAD 6 Quotient = 0.000FAD 3 Quotient = 0.000 METHYL ALCOHOL (0.0000001144%) 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 = 0.000FAD 3 Quotient = 0.000METHYL CHLORIDE (0.0000001144%) Carcinogen. CAS: 74-87-3 Density: 0.911 Relative Density: 0.92 Molecular Weight: 50.49 Boiling Point: -23.7 Vapour Pressure: 3671.9 LBLFactor = 100 (BP=-23.7) MAL Factor from OEL: 476.19 \*\* Warning: An Evaporation Rate Correction Factor of 2 was used. Contact the Authorities for a MAL Factor. R Phrases: F+;R12 Xn;R48/20 Carc.Cat.3;R40 FAD: 1. (Default) FAD 1 Quotient = 0.000 Density = 1.08. Entered value. Figure-before-the dash = 4XYLENES(@27.34%). MAL Factor = 46. Total increased by 27.34\*46=1257.74. Running Total = 1257.74 MONOAZO PIGMENT OF THE BENZIMIDAZOLONE RANGE(@9.12%). MAL Factor = 0. Total increased by 9.12\*0=0. Running Total = 1257.74 N-BUTYL ACETATE(@7.45%). MAL Factor = 14. Total increased by 7.45\*14=104.35. Running Total = 1362.09

TITANIUM DIOXIDE(@6.06%). MAL Factor = 0. Total increased by 6.06\*0=0. Running Total = 1362.09 ETHYLBENZENE(@4.88%), MAL Factor = 46. Total increased by 4.88\*46=224.47. Running Total = 1586.56 BARIUM SULPHATE(@3.85%), MAL Factor = 0. Total increased by 3.85\*0=0. Running Total = 1586.56 N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)(@1.85%). MAL Factor = 0. Total increased by 1.85\*0=0. Running Total = 1586.56 2.6-DIMETHYLHEPTANONE(@0.57%). MAL Factor = 47. Total increased by 0.57\*47=26.79. Running Total = 1613.35 2-BUTOXY ETHANOL(@0.57%). MAL Factor = 25. Total increased by 0.57\*25=14.25. Running Total = 1627.60 BLOCKED COPOLYMER(@0.26%). MAL Factor = 0. Total increased by 0.26\*0=0. Running Total = 1627.60 cvclohexanone(@0.24%), MAL Factor = 70. Total increased by 0.24\*70=16.96. Running Total = 1644.56 ALUMINUM HYDROXIDE(@0.22%). MAL Factor = 0. Total increased by 0.22\*0=0. Running Total = 1644.56 TOLUENE(@0.10%). MAL Factor = 74. Total increased by 0.10\*74=7.23. Running Total = 1651.79 2-HYDROXYETHYL METHACRYLATE(@0.10%). MAL Factor = 0. Total increased by 0.10\*0=0. Running Total = 1651.79 1-METHOXY-2-PROPYL ACETATE(@0.07%). MAL Factor = 19. Total increased by 0.07\*19=1.35. Running Total = 1653.15 SILICA(@0.06%), MAL Factor = 0. Total increased by 0.06\*0=0. Running Total = 1653.15 ALKOXYLATED BUTYL ETHER(@0.04%). MAL Factor = 0. Total increased by 0.04\*0=0. Running Total = 1653.15 ZIRCONIUM OXIDE(@0.03%). MAL Factor = 0. Total increased by 0.03\*0=0. Running Total = 1653.15 TRIMETHYLOLPROPANE(@0.03%). MAL Factor = 0. Total increased by 0.03\*0=0. Running Total = 1653.15 1-BUTANOL(@0.02%). MAL Factor = 67. Total increased by 0.02\*67=1.49. Running Total = 1654.64 ISOBUTYL ALCOHOL(@0.01%). MAL Factor = 67. Total increased by 0.01\*67=0.95. Running Total = 1655.58 BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00\*880=3.23. Running Total = 1658.81 WATER(@0.00%). MAL Factor = 0. Total increased by 0.00\*0=0. Running Total = 1658.81 DIBUTYL TIN DILAURATE(@0.00%). MAL Factor = 0. Total increased by 0.00\*0=0. Running Total = 1658.81 ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by 0.00\*400=0.30. Running Total = 1659.11 2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by 0.00\*181=0.10. Running Total = 1659.21 organotin compound (@0.00%). MAL Factor = 0. Total increased by 0.00\*0=0.00. Running Total = 1659.21 OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00\*1=0.00. Running Total = 1659.21 Decamethylcyclopentasiloxane(@0.00%). MAL Factor = 0. Total increased by 0.00\*0=0. Running Total = 1659.21 CUMENE(@0.00%). MAL Factor = 1. Total increased by 0.00\*1=0.00. Running Total = 1659.21 COCONUT FATTY ACIDS(@0.00%). MAL Factor = 0. Total increased by 0.00\*0=0. Running Total = 1659.21 PROPYLENE OXIDE(@0.00%). MAL Factor = 1. Total increased by 0.00\*1=0.00. Running Total = 1659.21 ACETALDEHYDE(@0.00%), MAL Factor = 1, Total increased by 0.00\*1=0.00, Running Total = 1659.21 HYDROCHLORIC ACID(@0.00%). MAL Factor = 2900. Total increased by 0.00\*2900=0.00. Running Total = 1659.21 FORMALDEHYDE(@0.00%). MAL Factor = 2500. Total increased by 0.00\*2500=0.00. Running Total = 1659.22 ETHYLENE OXIDE(@0.00%). MAL Factor = 11. Total increased by 0.00\*11=0.00. Running Total = 1659.22 1.4-DIOXANE(@0.00%). MAL Factor = 390. Total increased by 0.00\*390=0.00. Running Total = 1659.22 METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by 0.00\*54=0.00. Running Total = 1659.22 METHYL CHLORIDE(@0.00%). MAL Factor = 476.19. Total increased by 0.00\*476.19=0.00. Running Total = 1659.22 Figure-before-the-dash calculated as 4. Via MAL Factor Total \* Density (1659.22 \* 1.08) giving a MAL Number of 1792 MAL Number = Density (1.08) \* Sum (1659.22) = 1792 Figure-after-the-dash = 3. Calculated from component data. hydroxy acrylic resin (@36.60%) Increasing Total for FAD1 by 36598.2, giving 36598.2 XYLENES (@27.34%) Increasing Total for FAD3 by 2.73422801402, giving 2.73422801402 XYLENES (@27.34%) Increasing Total for FAD1 by 136.711400701, giving 36734.911400701 MONOAZO PIGMENT OF THE BENZIMIDAZOLONE RANGE (@9.12%) Increasing Total for FAD1 by 91.21, giving 36826.121400701 N-BUTYL ACETATE (@7.45%) Increasing Total for FAD1 by 7453.4615, giving 44279.582900701 TITANIUM DIOXIDE (@6.06%) Increasing Total for FAD1 by 6059.7095, giving 50339.292400701 ETHYLBENZENE (@4.88%) Increasing Total for FAD3 by 0.487980152, giving 3.22220816602 BARIUM SULPHATE (@3.85%) Increasing Total for FAD2 by 1.924, giving 1.924 N.N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (@1.85%) Increasing Total for FAD1 by 18.53, giving 50357.822400701

2.6-DIMETHYLHEPTANONE (@0.57%) Increasing Total for FAD1 by 570, giving 50927.822400701 2-BUTOXY ETHANOL (@0.57%) Increasing Total for FAD3 by 0.057, giving 3.27920816602 Reaction mass of Bis(1.2.2.6.6-pentamethyl-4-piperidyl) sebacate and Methyl 1.2.2.6.6-pentamethyl-4-piperidyl sebacate (@0.43%) Increasing Total for FAD1 by 428. aivina 51355.822400701 BLOCKED COPOLYMER (@0.26%) Increasing Total for FAD1 by 2.565, giving 51358.387400701 cyclohexanone (@0.24%) Increasing Total for FAD1 by 242.25, giving 51600.637400701 ALUMINUM HYDROXIDE (@0.22%) Increasing Total for FAD1 by 2.24315, giving 51602.880550701 TOLUENE (@0.10%) Increasing Total for FAD3 by 0.00977041192, giving 3.28897857794 2-HYDROXYETHYL METHACRYLATE (@0.0975952%) Increasing Total for FAD5 by 0.01951904, giving 0.01951904 2-HYDROXYETHYL METHACRYLATE (@0.10%) Increasing Total for FAD3 by 0.0975952, giving 3.38657377794 1-METHOXY-2-PROPYL ACETATE (@0.07%) Increasing Total for FAD1 by 71.25, giving 51674.130550701 SILICA (@0.06%) Increasing Total for FAD1 by 64.09, giving 51738.220550701 Siloxanes and Silicones, di-Me, [(triethoxysilyl)oxy]-terminated (@0.04%) Increasing Total for FAD1 by 42.75, giving 51780.970550701 ALKOXYLATED BUTYL ETHER (@0.04%) Increasing Total for FAD3 by 0.02124108415, giving 3.40781486209 ZIRCONIUM OXIDE (@0.03%) Increasing Total for FAD1 by 0.32045, giving 51781.291000701 TRIMETHYLOLPROPANE (@0.03%) Increasing Total for FAD1 by 0.288405, giving 51781.579405701 1-BUTANOL (@0.02%) Increasing Total for FAD1 by 22.233, giving 51803.812405701 proprietary siloxane (@0.02%) Increasing Total for FAD1 by 19.7626, giving 51823.575005701 ISOBUTYL ALCOHOL (@0.01%) Increasing Total for FAD1 by 14.157, giving 51837.732005701 proprietary polyglycol (@0.01%) Increasing Total for FAD1 by 11.9977, giving 51849.729705701 BENZENE (@0.00%) Increasing Total for FAD6 by 0.036717276, giving 0.036717276 DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD6 by 0.0013871, giving 0.038104376 DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD3 by 0.0055484, giving 3.41336326209 ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000029644, giving 0.000029644 ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.00007411, giving 3.41343737209 2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.0028215, giving 0.040925876 organotin compound (@0.00%) Increasing Total for FAD1 by 0.5643, giving 51850.294005701 OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.0002574, giving 3.41369477209 Decamethylcyclopentasiloxane (@0.00%) Increasing Total for FAD1 by 0.002574, giving 51850.296579701 CUMENE (@0.00%) Increasing Total for FAD3 by 0.000121007, giving 3.41381577909 COCONUT FATTY ACIDS (@0.00%) Increasing Total for FAD3 by 0.00002145, giving 3.41383722909 PROPYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.0000106535, giving 0.0409365295 ACETALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.000002717, giving 3.41383994609 HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD4 by 0.00000005434. giving 0.00002969834 HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD3 by 0.00000067925, giving 3.41384062534 FORMALDEHYDE (@0.00%) Increasing Total for FAD6 by 0.0000002002, giving 0.0409367297 FORMALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.000002002, giving 3.41384262734 ETHYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.000001001, giving 0.0409377307 1.4-DIOXANE (@0.00%) Increasing Total for FAD6 by 0.00000001144, giving 0.04093774214 1,4-DIOXANE (@0.00%) Increasing Total for FAD3 by 0.000001144, giving 3.41384377134 METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.00000000572, giving 0.04093774786 METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.0000001144, giving 3.41384388574 METHYL CHLORIDE (@0.00%) Increasing Total for FAD1 by 0.0001144, giving 51850.296694101 Figure-after-the-dash =3. Total of components with FAD=3 is >=1. Low Boiling Liquid = False. PROPYLENE OXIDE (@0.00%) Total increased by 0.00\*1/100=0.00. Running Total = 0.00 ACETALDEHYDE (@0.00%) Total increased by 0.00\*1/100=0.00. Running Total = 0.00 ETHYLENE OXIDE (@0.00%) Total increased by 0.00\*11/100=0.00. Running Total = 0.00

METHYL ALCOHOL (@0.00%) Total increased by 0.00\*54/100=0.00. Running Total = 0.00 METHYL CHLORIDE (@0.00%) Total increased by 0.00\*476.19/100=0.00. Running Total = 0.00 Density \* (Sum of components Concentration \* MALFactor/LBLFactor) = 0 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

: 4-3

MAL Number MAL Number (RFU)

- : 1791.95
- : 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: 4-3

**Application:** When spraying in new\* booths if the operator is outside 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 half mask and eye protection 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.

- Air-supplied half mask, coveralls and eye protection must be worn.

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 non-atomizing spraying in existing\* facilities of the combined-cabin, spraycabin and spray-booth type where the operator is working inside the spray zone.

- Air-supplied full mask 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 : Not available. MAL

Not available.

Not available.