Audit - EU DK MAL Code

SIGMADUR 550 BASE (TINTED)

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 4-3

The MAL Code calculations are performed with product and component data.

Product is a Liquid

SIGMADUR 550 BASE (TINTED) - Components considered for the MAL Code calculation. {Denmark MAL Code}

hydroxy acrylic resin (29.1378%)

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 = 29137.8

BARIUM SULPHATE (25.62%)

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 = 12.81

XYLENES (24.7019087558%)

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 = 2.470

FAD 1 Quotient = 123.510

N-BUTYL ACETATE (5.7337265%)

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 = 5733.726

C.I. PIGMENT RED 170 (5.57308837%)
CAS: 2786-76-7
Density: 1.408
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 = 55.731

ETHYLBENZENE (4.40173779%)
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 = 0.440

Talc, non-asbestos form (1.507%)
CAS: 14807-96-6
Density: 2.7
Relative Density: 2.7
Molecular Weight: 96.33
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 = 15.07

N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (1.096%)
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 = 10.96

2,6-DIMETHYLHEPTANONE (0.8706624%)
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 = 870.662

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (0.329%)
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 = 329

4,6-DIMETHYL-2-HEPTANONE (0.2176656%)
CAS: 19549-80-5
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 217.666

BLOCKED COPOLYMER (0.19755%)
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 = 1.976

CARBAZOLE VIOLET 23 (0.177%)
CAS: 6358-30-1
Density: 1.5
Molecular Weight: 589.48
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 = 1.77

CASTOR OIL, HYDROGENATED (0.07953%)
CAS: 8001-78-3
Density: 0.97
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 = 0.795

TOLUENE (0.0777743968%)
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 = 0.008

2-HYDROXYETHYL METHACRYLATE (0.0777008%)
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 = 0.078
FAD 5 Quotient = 0.016

1-METHOXY-2-PROPYL ACETATE (0.054875%)
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 = 54.875

ALKOXYLATED BUTYL ETHER (0.032678591%)
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 = 0.016

Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (0.02739%)
CAS: 100545-48-0
Density: 1.04
Vapour Pressure: 0.00000075
No LBL Factor entered or estimated from CAS Number or Boiling Point.
R Phrases: R43 R52/53
MAL Factor from Sub-Annex 2: 0
FAD: 1. (Default)
FAD 1 Quotient = 27.39

1-BUTANOL (0.017103%)

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 = 17.103

proprietary siloxane (0.015202%)
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 = 15.202

2'-ethoxy-3-hydroxy-2-naphthanilide (0.01391163%)
CAS: 92-74-0
Density: 0.53
Molecular Weight: 307.34
Vapour Pressure: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
R Phrases: N;R50/53
MAL Factor from Sub-Annex 2: 0
FAD: 1. (Default)
FAD 1 Quotient = 13.912

ISOBUTYL ALCOHOL (0.01089%)
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 = 10.89

proprietary polyglycol (0.009229%)
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 = 9.229

polysiloxanes (0.00765008%)

CAS: SUB143428
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 7.650

esterification reaction product of a hydroxy fatty acid and a hydroxy amide (0.00308%)
CAS: SUB139095
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 3.08

BENZENE (0.0029226274%)
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 = 0.029

DIBUTYL TIN DILAURATE (0.0026093%)
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 = 0.003
FAD 3 Quotient = 0.010

WATER (0.0022804%)
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

ACETIC ACID (0.0005701%)

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: 1. Limit:
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 4 Quotient = 0.000

2-METHOXY-1-PROPYL ACETATE (0.00043461%)
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 (0.00043461%)
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 = 0.435

OCTAMETHYLCYCLOTETRASILOXANE (0.00021992%)
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 (0.000198%)
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 = 0.002
CUMENE (0.00009319%)
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 (0.0000807%)
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 = 0.000
PROPYLENE OXIDE (0.000001639%)
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 (0.000000209%)
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 = 0.000

HYDROCHLORIC ACID (0.000000209%)
CAS: 7647-01-0
Density: 0.86
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 (0.000000154%)
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 (0.000000154%)
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 = 0.000
1,4-DIOXANE (0.000000088%)
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 = 0.000
FAD 3 Quotient = 0.000

METHYL ALCOHOL (0.000000088%)
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 = 0.000
FAD 3 Quotient = 0.000
METHYL CHLORIDE (0.000000088%)
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 = 1.235. Entered value.
Figure-before-the dash = 4
BARIUM SULPHATE(@25.62%). MAL Factor = 0. Total increased by 25.62*0=0. Running Total = 0
XYLENES(@24.70%). MAL Factor = 46. Total increased by 24.70*46=1136.29. Running Total = 1136.29
N-BUTYL ACETATE(@5.73%). MAL Factor = 14. Total increased by 5.73*14=80.27. Running Total = 1216.56
C.I. PIGMENT RED 170(@5.57%). MAL Factor = 0. Total increased by 5.57*0=0. Running Total = 1216.56
ETHYLBENZENE(@4.40%). MAL Factor = 46. Total increased by 4.40*46=202.48. Running Total = 1419.04
Talc, non-asbestos form(@1.51%). MAL Factor = 0. Total increased by 1.51*0=0. Running Total = 1419.04
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)(@1.10%). MAL Factor = 0. Total increased by 1.10*0=0. Running Total = 1419.04
2,6-DIMETHYLHEPTANONE(@0.87%). MAL Factor = 47. Total increased by 0.87*47=40.92. Running Total = 1459.96
BLOCKED COPOLYMER(@0.20%). MAL Factor = 0. Total increased by 0.20*0=0. Running Total = 1459.96
CARBAZOLE VIOLET 23(@0.18%). MAL Factor = 0. Total increased by 0.18*0=0. Running Total = 1459.96
CASTOR OIL, HYDROGENATED(@0.08%). MAL Factor = 0. Total increased by 0.08*0=0. Running Total = 1459.96
TOLUENE(@0.08%). MAL Factor = 74. Total increased by 0.08*74=5.76. Running Total = 1465.72
2-HYDROXYETHYL METHACRYLATE(@0.08%). MAL Factor = 0. Total increased by 0.08*0=0. Running Total = 1465.72
1-METHOXY-2-PROPYL ACETATE(@0.05%). MAL Factor = 19. Total increased by 0.05*19=1.04. Running Total = 1466.76
ALKOXYLATED BUTYL ETHER(@0.03%). MAL Factor = 0. Total increased by 0.03*0=0. Running Total = 1466.76
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine(@0.03%). MAL Factor = 0. Total increased by 0.03*0=0.00. Running Total = 1466.76
1-BUTANOL(@0.02%). MAL Factor = 67. Total increased by 0.02*67=1.15. Running Total = 1467.90
2'-ethoxy-3-hydroxy-2-naphthanilide(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0.00. Running Total = 1467.90
ISOBUTYL ALCOHOL(@0.01%). MAL Factor = 67. Total increased by 0.01*67=0.73. Running Total = 1468.63
BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00*880=2.57. Running Total = 1471.21

DIBUTYL TIN DILAURATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 1471.21
WATER(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 1471.21
ACETIC ACID(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 1471.21
2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by 0.00*181=0.08. Running Total = 1471.29
organotin compound(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 1471.29
OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 1471.29
Decamethylcyclopentasiloxane(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 1471.29
CUMENE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 1471.29
COCONUT FATTY ACIDS(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 1471.29
PROPYLENE OXIDE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 1471.29
ACETALDEHYDE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 1471.29
HYDROCHLORIC ACID(@0.00%). MAL Factor = 2900. Total increased by 0.00*2900=0.00. Running Total = 1471.29
FORMALDEHYDE(@0.00%). MAL Factor = 2500. Total increased by 0.00*2500=0.00. Running Total = 1471.29
ETHYLENE OXIDE(@0.00%). MAL Factor = 11. Total increased by 0.00*11=0.00. Running Total = 1471.29
1,4-DIOXANE(@0.00%). MAL Factor = 390. Total increased by 0.00*390=0.00. Running Total = 1471.29
METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by 0.00*54=0.00. Running Total = 1471.29
METHYL CHLORIDE(@0.00%). MAL Factor = 476.19. Total increased by 0.00*476.19=0.00. Running Total = 1471.29
Figure-before-the-dash calculated as 4. Via MAL Factor Total * Density (1471.29 * 1.235) giving a MAL Number of 1817
MAL Number = Density (1.235) * Sum (1471.29) = 1817
Figure-after-the-dash = 3. Calculated from component data.
hydroxy acrylic resin (@29.14%) Increasing Total for FAD1 by 29137.8, giving 29137.8
BARIUM SULPHATE (@25.62%) Increasing Total for FAD2 by 12.81, giving 12.81
XYLENES (@24.70%) Increasing Total for FAD3 by 2.47019087558, giving 2.47019087558
XYLENES (@24.70%) Increasing Total for FAD1 by 123.509543779, giving 29261.309543779
N-BUTYL ACETATE (@5.73%) Increasing Total for FAD1 by 5733.7265, giving 34995.036043779
C.I. PIGMENT RED 170 (@5.57%) Increasing Total for FAD1 by 55.7308837, giving 35050.766927479
ETHYLBENZENE (@4.40%) Increasing Total for FAD3 by 0.440173779, giving 2.91036465458
Talc, non-asbestos form (@1.51%) Increasing Total for FAD1 by 15.07, giving 35065.836927479
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (@1.10%) Increasing Total for FAD1 by 10.96, giving 35076.796927479
2,6-DIMETHYLHEPTANONE (@0.87%) Increasing Total for FAD1 by 870.6624, giving 35947.459327479
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (@0.33%) Increasing Total for FAD1 by 329, giving 36276.459327479
4,6-DIMETHYL-2-HEPTANONE (@0.22%) Increasing Total for FAD1 by 217.6656, giving 36494.124927479
BLOCKED COPOLYMER (@0.20%) Increasing Total for FAD1 by 1.9755, giving 36496.100427479
CARBAZOLE VIOLET 23 (@0.18%) Increasing Total for FAD1 by 1.77, giving 36497.870427479
CASTOR OIL, HYDROGENATED (@0.08%) Increasing Total for FAD1 by 0.7953, giving 36498.665727479
TOLUENE (@0.08%) Increasing Total for FAD3 by 0.00777743968, giving 2.91814209426
2-HYDROXYETHYL METHACRYLATE (@0.0777008%) Increasing Total for FAD5 by 0.01554016, giving 0.01554016
2-HYDROXYETHYL METHACRYLATE (@0.08%) Increasing Total for FAD3 by 0.0777008, giving 2.99584289426
1-METHOXY-2-PROPYL ACETATE (@0.05%) Increasing Total for FAD1 by 54.875, giving 36553.540727479
ALKOXYLATED BUTYL ETHER (@0.03%) Increasing Total for FAD3 by 0.0163392955, giving 3.01218218976
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (@0.03%) Increasing Total for FAD1 by 27.39, giving 36580.930727479
1-BUTANOL (@0.02%) Increasing Total for FAD1 by 17.103, giving 36598.033727479
proprietary siloxane (@0.02%) Increasing Total for FAD1 by 15.202, giving 36613.235727479
2'-ethoxy-3-hydroxy-2-naphthanilide (@0.01%) Increasing Total for FAD1 by 13.91163, giving 36627.147357479
ISOBUTYL ALCOHOL (@0.01%) Increasing Total for FAD1 by 10.89, giving 36638.037357479
proprietary polyglycol (@0.01%) Increasing Total for FAD1 by 9.229, giving 36647.266357479
polysiloxanes (@0.01%) Increasing Total for FAD1 by 7.65008, giving 36654.916437479

esterification reaction product of a hydroxy fatty acid and a hydroxy amide (@0.00%) Increasing Total for FAD1 by 3.08, giving 36657.996437479
BENZENE (@0.00%) Increasing Total for FAD6 by 0.029226274, giving 0.029226274
DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD6 by 0.0026093, giving 0.031835574
DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD3 by 0.0104372, giving 3.02261938976
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000022804, giving 0.000022804
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.00217305, giving 0.034008624
organotin compound (@0.00%) Increasing Total for FAD1 by 0.43461, giving 36658.431047479
OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.00021992, giving 3.02283930976
Decamethylcyclopentasiloxane (@0.00%) Increasing Total for FAD1 by 0.00198, giving 36658.433027479
CUMENE (@0.00%) Increasing Total for FAD3 by 0.00009319, giving 3.02293249976
COCONUT FATTY ACIDS (@0.00%) Increasing Total for FAD3 by 0.00004035, giving 3.02297284976
PROPYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.000008195, giving 0.034016819
ACETALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.00000209, giving 3.02297493976
HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD4 by 0.0000000418, giving 0.0000228458
HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD3 by 0.0000005225, giving 3.02297546226
FORMALDEHYDE (@0.00%) Increasing Total for FAD6 by 0.000000154, giving 0.034016973
FORMALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.00000154, giving 3.02297700226
ETHYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.00000077, giving 0.034017743
1,4-DIOXANE (@0.00%) Increasing Total for FAD6 by 0.0000000088, giving 0.0340177518
1,4-DIOXANE (@0.00%) Increasing Total for FAD3 by 0.00000088, giving 3.02297788226
METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.0000000044, giving 0.0340177562
METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.000000088, giving 3.02297797026
METHYL CHLORIDE (@0.00%) Increasing Total for FAD1 by 0.000088, giving 36658.433115479
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 : 1817.04

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: 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, spray-cabin 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-UMAL : Not available.

Not available.

Not available.