

# Audit - EU DK MAL Code

## SIGMADUR 550 BASE GREEN 4199

### 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 GREEN 4199 - Components considered for the MAL Code calculation. {Denmark MAL Code}

BARIUM SULPHATE (32.909%)

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 = 16.454

hydroxy acrylic resin (25.455%)

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 = 25455

XYLENES (22.322443005%)

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 = 2.232

FAD 1 Quotient = 111.612

N-BUTYL ACETATE (5.183601%)

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 = 5183.601

ETHYLBENZENE (3.97729393%)

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 = 0.398

IRON HYDROXIDE OXIDE (3.084382%)

CAS: 51274-00-1

Density: 4.26

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 = 30.844

Talc, non-asbestos form (1.982%)

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 = 19.82

COPPER PHTHALOCYANINE GREEN (1.744%)

CAS: 1328-53-6

Density: 2.2

Vapour Pressure: 0.000009

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 = 1744

N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (1.586%)

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 = 15.86

2,6-DIMETHYLHEPTANONE (0.3964%)

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 = 396.4

2-BUTOXY ETHANOL (0.3964%)

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 = 0.040

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (0.297%)

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 = 297

BLOCKED COPOLYMER (0.17865%)

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 = 1.786

cyclohexanone (0.16847%)

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 = 168.47

TOLUENE (0.06795558%)

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

2-HYDROXYETHYL METHACRYLATE (0.06788%)

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 = 0.068

FAD 5 Quotient = 0.014

1-METHOXY-2-PROPYL ACETATE (0.049625%)

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 = 49.625

Siloxanes and Silicones, di-Me, [(triethoxysilyl)oxy]-terminated (0.02973%)

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 = 29.73

ALKOXYLATED BUTYL ETHER (0.0294107319%)

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 = 0.015

1-BUTANOL (0.015462%)

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 = 15.462

proprietary siloxane (0.0136818%)

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 = 13.682

ISOBUTYL ALCOHOL (0.009801%)

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 = 9.801

proprietary polyglycol (0.0083061%)

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 = 8.306

SODIUM SULPHATE (0.0077575%)

CAS: 7757-82-6

Density: 2.67

Relative Density: 2.7

Molecular Weight: 142.04

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 1 Quotient = 0.078

CALCIUM SULFATE (0.0077575%)

CAS: 7778-18-9

Density: 2.9

Relative Density: 2.96

Molecular Weight: 136.14

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 = 0.078

GRAPHITE (0.003103%)

CAS: 7782-42-5

Density: 2.2

Relative Density: 2.16

Molecular Weight: 12.01

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 = 0.031

BENZENE (0.002553776%)

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 = 0.026

DIBUTYL TIN DILAURATE (0.0024541%)

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 = 0.002

FAD 3 Quotient = 0.010

WATER (0.0020616%)

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 (0.0005154%)

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 (0.00039303%)

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 (0.00039303%)

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 = 0.393

OCTAMETHYLCYCLOTETRASILOXANE (0.0001782%)

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 (0.0001782%)

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 (0.000084251%)

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 (0.0000759%)

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 (0.0000014751%)

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 (0.0000001881%)

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 (0.0000001881%)

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 (0.0000001386%)

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 (0.0000001386%)

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 (0.0000000792%)

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 (0.0000000792%)

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 (0.0000000792%)

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 = 1.368. Entered value.

Figure-before-the dash = 4

BARIUM SULPHATE(@32.91%). MAL Factor = 0. Total increased by 32.91\*0=0. Running Total = 0  
XYLENES(@22.32%). MAL Factor = 46. Total increased by 22.32\*46=1026.83. Running Total = 1026.83  
N-BUTYL ACETATE(@5.18%). MAL Factor = 14. Total increased by 5.18\*14=72.57. Running Total = 1099.40  
ETHYLBENZENE(@3.98%). MAL Factor = 46. Total increased by 3.98\*46=182.96. Running Total = 1282.36  
IRON HYDROXIDE OXIDE(@3.08%). MAL Factor = 0. Total increased by 3.08\*0=0. Running Total = 1282.36  
Talc, non-asbestos form(@1.98%). MAL Factor = 0. Total increased by 1.98\*0=0. Running Total = 1282.36  
COPPER PHTHALOCYANINE GREEN(@1.74%). MAL Factor = 0. Total increased by 1.74\*0=0. Running Total = 1282.36  
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)(@1.59%). MAL Factor = 0. Total increased by 1.59\*0=0. Running Total = 1282.36

2,6-DIMETHYLHEPTANONE(@0.40%). MAL Factor = 47. Total increased by  $0.40 \times 47 = 18.63$ . Running Total = 1300.99  
2-BUTOXY ETHANOL(@0.40%). MAL Factor = 25. Total increased by  $0.40 \times 25 = 9.91$ . Running Total = 1310.90  
BLOCKED COPOLYMER(@0.18%). MAL Factor = 0. Total increased by  $0.18 \times 0 = 0$ . Running Total = 1310.90  
cyclohexanone(@0.17%). MAL Factor = 70. Total increased by  $0.17 \times 70 = 11.79$ . Running Total = 1322.69  
TOLUENE(@0.07%). MAL Factor = 74. Total increased by  $0.07 \times 74 = 5.03$ . Running Total = 1327.72  
2-HYDROXYETHYL METHACRYLATE(@0.07%). MAL Factor = 0. Total increased by  $0.07 \times 0 = 0$ . Running Total = 1327.72  
1-METHOXY-2-PROPYL ACETATE(@0.05%). MAL Factor = 19. Total increased by  $0.05 \times 19 = 0.94$ . Running Total = 1328.66  
ALKOXYLATED BUTYL ETHER(@0.03%). MAL Factor = 0. Total increased by  $0.03 \times 0 = 0$ . Running Total = 1328.66  
1-BUTANOL(@0.02%). MAL Factor = 67. Total increased by  $0.02 \times 67 = 1.04$ . Running Total = 1329.70  
ISOBUTYL ALCOHOL(@0.01%). MAL Factor = 67. Total increased by  $0.01 \times 67 = 0.66$ . Running Total = 1330.36  
SODIUM SULPHATE(@0.01%). MAL Factor = 0. Total increased by  $0.01 \times 0 = 0$ . Running Total = 1330.36  
CALCIUM SULFATE(@0.01%). MAL Factor = 0. Total increased by  $0.01 \times 0 = 0$ . Running Total = 1330.36  
GRAPHITE(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0$ . Running Total = 1330.36  
BENZENE(@0.00%). MAL Factor = 880. Total increased by  $0.00 \times 880 = 2.25$ . Running Total = 1332.60  
DIBUTYL TIN DILAURATE(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0$ . Running Total = 1332.60  
WATER(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0$ . Running Total = 1332.60  
ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by  $0.00 \times 400 = 0.21$ . Running Total = 1332.81  
2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by  $0.00 \times 181 = 0.07$ . Running Total = 1332.88  
organotin compound(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0.00$ . Running Total = 1332.88  
OCTAMETHYLCYCLOTETRAILOXANE(@0.00%). MAL Factor = 1. Total increased by  $0.00 \times 1 = 0.00$ . Running Total = 1332.88  
Decamethylcyclopentasiloxane(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0$ . Running Total = 1332.88  
CUMENE(@0.00%). MAL Factor = 1. Total increased by  $0.00 \times 1 = 0.00$ . Running Total = 1332.88  
COCONUT FATTY ACIDS(@0.00%). MAL Factor = 0. Total increased by  $0.00 \times 0 = 0$ . Running Total = 1332.88  
PROPYLENE OXIDE(@0.00%). MAL Factor = 1. Total increased by  $0.00 \times 1 = 0.00$ . Running Total = 1332.88  
ACETALDEHYDE(@0.00%). MAL Factor = 1. Total increased by  $0.00 \times 1 = 0.00$ . Running Total = 1332.88  
HYDROCHLORIC ACID(@0.00%). MAL Factor = 2900. Total increased by  $0.00 \times 2900 = 0.00$ . Running Total = 1332.88  
FORMALDEHYDE(@0.00%). MAL Factor = 2500. Total increased by  $0.00 \times 2500 = 0.00$ . Running Total = 1332.88  
ETHYLENE OXIDE(@0.00%). MAL Factor = 11. Total increased by  $0.00 \times 11 = 0.00$ . Running Total = 1332.88  
1,4-DIOXANE(@0.00%). MAL Factor = 390. Total increased by  $0.00 \times 390 = 0.00$ . Running Total = 1332.88  
METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by  $0.00 \times 54 = 0.00$ . Running Total = 1332.88  
METHYL CHLORIDE(@0.00%). MAL Factor = 476.19. Total increased by  $0.00 \times 476.19 = 0.00$ . Running Total = 1332.88  
Figure-before-the-dash calculated as 4. Via MAL Factor Total \* Density (1332.88 \* 1.368) giving a MAL Number of 1823

MAL Number = Density (1.368) \* Sum (1332.88) = 1823

Figure-after-the-dash = 3. Calculated from component data.

BARIUM SULPHATE (@32.91%) Increasing Total for FAD2 by 16.4545, giving 16.4545

hydroxy acrylic resin (@25.46%) Increasing Total for FAD1 by 25455, giving 25455

XYLENES (@22.32%) Increasing Total for FAD3 by 2.2322443005, giving 2.2322443005

XYLENES (@22.32%) Increasing Total for FAD1 by 111.612215025, giving 25566.612215025

N-BUTYL ACETATE (@5.18%) Increasing Total for FAD1 by 5183.601, giving 30750.213215025

ETHYLBENZENE (@3.98%) Increasing Total for FAD3 by 0.397729393, giving 2.6299736935

IRON HYDROXIDE OXIDE (@3.08%) Increasing Total for FAD1 by 30.84382, giving 30781.057035025

Talc, non-asbestos form (@1.98%) Increasing Total for FAD1 by 19.82, giving 30800.877035025

COPPER PHTHALOCYANINE GREEN (@1.74%) Increasing Total for FAD1 by 1744, giving 32544.877035025

N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (@1.59%) Increasing Total for FAD1 by 15.86, giving 32560.737035025

2,6-DIMETHYLHEPTANONE (@0.40%) Increasing Total for FAD1 by 396.4, giving 32957.137035025

2-BUTOXY ETHANOL (@0.40%) Increasing Total for FAD3 by 0.03964, giving 2.6696136935

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate (@0.30%) Increasing Total for FAD1 by 297, giving 33254.137035025

BLOCKED COPOLYMER (@0.18%) Increasing Total for FAD1 by 1.7865, giving 33255.923535025  
cyclohexanone (@0.17%) Increasing Total for FAD1 by 168.47, giving 33424.393535025  
TOLUENE (@0.07%) Increasing Total for FAD3 by 0.006795558, giving 2.6764092515  
2-HYDROXYETHYL METHACRYLATE (@0.06788%) Increasing Total for FAD5 by 0.013576, giving 0.013576  
2-HYDROXYETHYL METHACRYLATE (@0.07%) Increasing Total for FAD3 by 0.06788, giving 2.7442892515  
1-METHOXY-2-PROPYL ACETATE (@0.05%) Increasing Total for FAD1 by 49.625, giving 33474.018535025  
Siloxanes and Silicones, di-Me, [(triethoxysilyl)oxy]-terminated (@0.03%) Increasing Total for FAD1 by 29.73, giving 33503.748535025  
ALKOXYLATED BUTYL ETHER (@0.03%) Increasing Total for FAD3 by 0.01470536595, giving 2.75899461745  
1-BUTANOL (@0.02%) Increasing Total for FAD1 by 15.462, giving 33519.210535025  
proprietary siloxane (@0.01%) Increasing Total for FAD1 by 13.6818, giving 33532.892335025  
ISOBUTYL ALCOHOL (@0.01%) Increasing Total for FAD1 by 9.801, giving 33542.693335025  
proprietary polyglycol (@0.01%) Increasing Total for FAD1 by 8.3061, giving 33550.999435025  
SODIUM SULPHATE (@0.01%) Increasing Total for FAD1 by 0.077575, giving 33551.077010025  
CALCIUM SULFATE (@0.01%) Increasing Total for FAD1 by 0.077575, giving 33551.154585025  
GRAPHITE (@0.00%) Increasing Total for FAD1 by 0.03103, giving 33551.185615025  
BENZENE (@0.00%) Increasing Total for FAD6 by 0.02553776, giving 0.02553776  
DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD6 by 0.0024541, giving 0.02799186  
DIBUTYL TIN DILAURATE (@0.00%) Increasing Total for FAD3 by 0.0098164, giving 2.76881101745  
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000020616, giving 0.000020616  
ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.00005154, giving 2.76886255745  
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.00196515, giving 0.02995701  
organotin compound (@0.00%) Increasing Total for FAD1 by 0.39303, giving 33551.578645025  
OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.0001782, giving 2.76904075745  
Decamethylcyclopentasiloxane (@0.00%) Increasing Total for FAD1 by 0.001782, giving 33551.580427025  
CUMENE (@0.00%) Increasing Total for FAD3 by 0.000084251, giving 2.76912500845  
COCONUT FATTY ACIDS (@0.00%) Increasing Total for FAD3 by 0.00003795, giving 2.76916295845  
PROPYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.0000073755, giving 0.0299643855  
ACETALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.000001881, giving 2.76916483945  
HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD4 by 0.00000003762, giving 0.00002065362  
HYDROCHLORIC ACID (@0.00%) Increasing Total for FAD3 by 0.00000047025, giving 2.76916530970  
FORMALDEHYDE (@0.00%) Increasing Total for FAD6 by 0.0000001386, giving 0.0299645241  
FORMALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.000001386, giving 2.76916669570  
ETHYLENE OXIDE (@0.00%) Increasing Total for FAD6 by 0.000000693, giving 0.0299652171  
1,4-DIOXANE (@0.00%) Increasing Total for FAD6 by 0.00000000792, giving 0.02996522502  
1,4-DIOXANE (@0.00%) Increasing Total for FAD3 by 0.000000792, giving 2.76916748770  
METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.00000000396, giving 0.02996522898  
METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.0000000792, giving 2.76916756690  
METHYL CHLORIDE (@0.00%) Increasing Total for FAD1 by 0.0000792, giving 33551.580506225  
Figure-after-the-dash =3. Total of components with FAD=3 is >=1.

Low Boiling Liquid = False.

PROPYLENE OXIDE (@0.00%) Total increased by  $0.00 \times 1/100 = 0.00$ . Running Total = 0.00  
ACETALDEHYDE (@0.00%) Total increased by  $0.00 \times 1/100 = 0.00$ . Running Total = 0.00  
ETHYLENE OXIDE (@0.00%) Total increased by  $0.00 \times 11/100 = 0.00$ . Running Total = 0.00  
METHYL ALCOHOL (@0.00%) Total increased by  $0.00 \times 54/100 = 0.00$ . Running Total = 0.00  
METHYL CHLORIDE (@0.00%) Total increased by  $0.00 \times 476.19/100 = 0.00$ . 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** : 1823.38

**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-U MAL** : Not available.

Not available.

Not available.