

Audit - EU DK MAL Code

SIGMACOVER 280 BASE GREY

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 4-5

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

Product is a Liquid

SIGMACOVER 280 BASE GREY - Components considered for the MAL Code calculation. {Denmark MAL Code}

Talc, non-asbestos form (20.35412%)

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 = 203.541

XYLENES (20.04041935%)

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 = 2.004

FAD 1 Quotient = 100.202

EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) (18.1476042%)

CAS: 25036-25-3

Density: 0

Molecular Weight: 1000

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

MAL Factor entered: 0. Limit: 0

FAD entered: 5; Lower Limit: 5

FAD 5 Quotient = 3.630

QUARTZ (>10 microns) (11.5122%)

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: 0.1
FAD 1 Quotient = 115.122

TITANIUM DIOXIDE (9.2659%)

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 = 9265.9

ALUMINUM POWDER (3.84%)

CAS: 7429-90-5
Density: 2.702
Relative Density: 2.7
Molecular Weight: 26.98
Boiling Point: 2450
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 = 38.4

ETHYLBENZENE (3.56055%)

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 = 0.356

PROPYLENE GLYCOL MONOMETHYL ETHER (2.9865%)

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 = 2986.5

4-nonylphenol, branched (2.425293%)

CAS: 84852-15-3

Density: 0.95

Molecular Weight: 220.39

Boiling Point: 302

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

MAL Factor entered: 0. Limit: 0

FAD entered: 3; Lower Limit: 2

FAD 3 Quotient = 1.213

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (2.1%)

CAS: 64742-48-9

Density: 0.79

Molecular Weight: 143

Boiling Point: 200

Vapour Pressure: 0.375

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

MAL Factor entered: 12. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 2100

QUARTZ (<10 microns) (1.2928%)

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: 3; Lower Limit: 1

FAD 6 Quotient = 0.129

FAD 3 Quotient = 1.293

UREA-FORMALDEHYDE RESIN, BUTYLATED (1.268%)

CAS: 68002-19-7

Density: 1.25

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 = 12.68

1-BUTANOL (0.51374%)

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 = 513.74

IRON OXIDE BLACK (0.4452%)

CAS: 1317-61-9

Density: 5.17

Molecular Weight: 231.54

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 = 4.452

polyamide, modified (0.393%)

CAS: SUB110597

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 = 393

ALUMINUM HYDROXIDE (0.343%)

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 = 3.43

WATER (0.3147735%)

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

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (0.2325573%)

CAS: 2530-83-8

Density: 1.07

Molecular Weight: 236.38

Vapour Pressure: 0.0082

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

R Phrases: R52/53

MAL Factor from Sub-Annex 2: 0

FAD: 1. (Default)

FAD 1 Quotient = 232.557

o-Xylene (0.2%)

Organic Solvent.

CAS: 95-47-6

Density: 0.88

Relative Density: 0.88

Molecular Weight: 106.18

Boiling Point: 144.5

Vapour Pressure: 5.25043

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 = 0.02

ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (0.195%)

CAS: 121888-68-4

Density: 1.1

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 = 1.95

TOLUENE (0.1324813%)

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 = 0.013

SILICA (0.098%)

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 = 98

ALUMINUM OXIDE (0.0636%)

CAS: 1344-28-1

Density: 3.97

Relative Density: 4

Molecular Weight: 101.96

Boiling Point: 3000

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 = 0.636

OLEIC ACID (0.06%)

CAS: 112-80-1

Density: 0.891

Relative Density: 0.89

Molecular Weight: 282.52

Boiling Point: 360

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 = 0.6

ZIRCONIUM OXIDE (0.049%)

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 = 0.49

TRIMETHYLOLPROPANE (0.0441%)

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 = 0.441

DINONYLPHENOL (0.02961%)

CAS: 1323-65-5

Density: 1.5

Molecular Weight: 346.66

Vapour Pressure: 9.7507995

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 = 0.015

Phenol, 2-nonyl-, branched (0.02961%)

CAS: 91672-41-2

Density: 0

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 29.61

CALCIUM OXYDE (0.0212%)

CAS: 1305-78-8

Density: 3.3

Relative Density: 3.35

Molecular Weight: 56.08

Boiling Point: 2850

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 = 0.011

FORMALDEHYDE (0.012%)

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 = 0.012

FAD 3 Quotient = 0.12

2-METHOXY-1-PROPANOL (0.0087%)

Organic Solvent.

CAS: 1589-47-5

Density: 0.938

Molecular Weight: 90.14

Boiling Point: 130

Vapour Pressure: 4.1

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

MAL Factor entered: 267. Limit: 0

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

FAD 6 Quotient = 0.004

ISOBUTYL ALCOHOL (0.006%)

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 = 6

BENZENE (0.00357265%)

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 = 0.036

4,4-ISOPROPYLIDENEDIPHENOL (0.0023958%)

CAS: 80-05-7

Density: 1.2

Relative Density: 1.2

Molecular Weight: 228.31

Boiling Point: 360

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 5 Quotient = 0.002

CHLORITE-GROUP MINERALS (0.00212%)

CAS: 1318-59-8

Density: 2.8

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 = 0.021

DOLOMITE (0.00212%)

CAS: 16389-88-1

Density: 2.85

Molecular Weight: 188.43

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 = 0.021

MAGNESIUM CARBONATE (0.00212%)

CAS: 13717-00-5

Density: 3

Molecular Weight: 84.31

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 = 0.021

PHENOL (0.0012435%)

Organic Solvent.

CAS: 108-95-2

Density: 1.06
Molecular Weight: 94.11
Boiling Point: 181.75
Vapour Pressure: 0.15001
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor from OEL: 5000 ** Warning: An Evaporation Rate Correction Factor of 2 was used. Contact the Authorities for a MAL Factor.
R Phrases: T;R25 T;R24 T;R23 Xn;R48/22 Xn;R48/21 Xn;R48/20 C;R34 Muta.Cat.3;R68

FAD: 1. (Default)
FAD 1 Quotient = 1.244

Phenol, 2,4-dinonyl-, branched (0.00075%)

CAS: 84852-14-2
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.75

ACETIC ACID (0.0003%)

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

METHYL ALCOHOL (0.0002097%)

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

ALLYL GLYCIDYL ETHER (0.0002097%)

Organic Solvent.
Carcinogen.
CAS: 106-92-3
Density: 0.97
Relative Density: 0.97
Molecular Weight: 114.16

Boiling Point: 153.9

Vapour Pressure: 3.6

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

MAL Factor from OEL: 909.09 ** Warning: An Evaporation Rate Correction Factor of 2 was used. Contact the Authorities for a MAL Factor.

R Phrases: R10 Xn;R22 Xn;R20 R43 Xi;R38 Xi;R37 Xi;R41 Carc.Cat.3;R40 Muta.Cat.3;R68 Repr.Cat.3;R62 R52/53

FAD: 1. (Default)

FAD 1 Quotient = 0.210

Density = 1.42. Entered value.

Figure-before-the dash = 4

Talc, non-asbestos form(@20.35%). MAL Factor = 0. Total increased by $20.35 \times 0 = 0$. Running Total = 0

XYLENES(@20.04%). MAL Factor = 46. Total increased by $20.04 \times 46 = 921.86$. Running Total = 921.86

EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)(@18.15%). MAL Factor = 0. Total increased by $18.15 \times 0 = 0$. Running Total = 921.86

QUARTZ (>10 microns)(@11.51%). MAL Factor = 0. Total increased by $11.51 \times 0 = 0$. Running Total = 921.86

TITANIUM DIOXIDE(@9.27%). MAL Factor = 0. Total increased by $9.27 \times 0 = 0$. Running Total = 921.86

ALUMINUM POWDER(@3.84%). MAL Factor = 0. Total increased by $3.84 \times 0 = 0$. Running Total = 921.86

ETHYLBENZENE(@3.56%). MAL Factor = 46. Total increased by $3.56 \times 46 = 163.79$. Running Total = 1085.64

PROPYLENE GLYCOL MONOMETHYL ETHER(@2.99%). MAL Factor = 28. Total increased by $2.99 \times 28 = 83.62$. Running Total = 1169.27

4-nonylphenol, branched(@2.43%). MAL Factor = 0. Total increased by $2.43 \times 0 = 0$. Running Total = 1169.27

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (@2.1%). MAL Factor = 12. Total increased by $2.1 \times 12 = 25.2$. Running Total = 1194.47

QUARTZ (<10 microns)(@1.29%). MAL Factor = 0. Total increased by $1.29 \times 0 = 0$. Running Total = 1194.47

UREA-FORMALDEHYDE RESIN, BUTYLATED(@1.27%). MAL Factor = 0. Total increased by $1.27 \times 0 = 0$. Running Total = 1194.47

1-BUTANOL(@0.51%). MAL Factor = 67. Total increased by $0.51 \times 67 = 34.42$. Running Total = 1228.89

IRON OXIDE BLACK(@0.45%). MAL Factor = 0. Total increased by $0.45 \times 0 = 0$. Running Total = 1228.89

ALUMINUM HYDROXIDE(@0.34%). MAL Factor = 0. Total increased by $0.34 \times 0 = 0$. Running Total = 1228.89

WATER(@0.31%). MAL Factor = 0. Total increased by $0.31 \times 0 = 0$. Running Total = 1228.89

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane(@0.23%). MAL Factor = 0. Total increased by $0.23 \times 0 = 0.00$. Running Total = 1228.89

o-Xylene(@0.2%). MAL Factor = 46. Total increased by $0.2 \times 46 = 9.2$. Running Total = 1238.09

ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY(@0.20%). MAL Factor = 0. Total increased by $0.20 \times 0 = 0$. Running Total = 1238.09

TOLUENE(@0.13%). MAL Factor = 74. Total increased by $0.13 \times 74 = 9.80$. Running Total = 1247.89

SILICA(@0.10%). MAL Factor = 0. Total increased by $0.10 \times 0 = 0$. Running Total = 1247.89

ALUMINUM OXIDE(@0.06%). MAL Factor = 0. Total increased by $0.06 \times 0 = 0$. Running Total = 1247.89

OLEIC ACID(@0.06%). MAL Factor = 0. Total increased by $0.06 \times 0 = 0$. Running Total = 1247.89

ZIRCONIUM OXIDE(@0.05%). MAL Factor = 0. Total increased by $0.05 \times 0 = 0$. Running Total = 1247.89

TRIMETHYLOLPROPANE(@0.04%). MAL Factor = 0. Total increased by $0.04 \times 0 = 0$. Running Total = 1247.89

DINONYLPHENOL(@0.03%). MAL Factor = 1. Total increased by $0.03 \times 1 = 0.03$. Running Total = 1247.92

CALCIUM OXYDE(@0.02%). MAL Factor = 0. Total increased by $0.02 \times 0 = 0$. Running Total = 1247.92

FORMALDEHYDE(@0.01%). MAL Factor = 2500. Total increased by $0.01 \times 2500 = 30$. Running Total = 1277.92

2-METHOXY-1-PROPANOL(@0.01%). MAL Factor = 267. Total increased by $0.01 \times 267 = 2.32$. Running Total = 1280.24

ISOBUTYL ALCOHOL(@0.01%). MAL Factor = 67. Total increased by $0.01 \times 67 = 0.40$. Running Total = 1280.65

BENZENE(@0.00%). MAL Factor = 880. Total increased by $0.00 \times 880 = 3.14$. Running Total = 1283.79

4,4-ISOPROPYLIDENEDIPHENOL(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 1283.79

CHLORITE-GROUP MINERALS(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 1283.79

DOLOMITE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 1283.79

MAGNESIUM CARBONATE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 1283.79

PHENOL(@0.00%). MAL Factor = 5000. Total increased by $0.00 \times 5000 = 6.22$. Running Total = 1290.01

ACETIC ACID(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 1290.01

METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by $0.00 \times 54 = 0.01$. Running Total = 1290.02

ALLYL GLYCIDYL ETHER(@0.00%). MAL Factor = 909.09. Total increased by $0.00 \times 909.09 = 0.19$. Running Total = 1290.21

Figure-before-the-dash calculated as 4. Via MAL Factor Total * Density (1290.21 * 1.42) giving a MAL Number of 1832

MAL Number = Density (1.42) * Sum (1290.21) = 1832

Figure-after-the-dash = 5. Calculated from component data.

Talc, non-asbestos form (@20.35%) Increasing Total for FAD1 by 203.5412, giving 203.5412

XYLENES (@20.04%) Increasing Total for FAD3 by 2.004041935, giving 2.004041935

XYLENES (@20.04%) Increasing Total for FAD1 by 100.20209675, giving 303.74329675

EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) (@18.1476042%) Increasing Total for FAD5 by 3.62952084, giving 3.62952084

QUARTZ (>10 microns) (@11.51%) Increasing Total for FAD1 by 115.122, giving 418.86529675

TITANIUM DIOXIDE (@9.27%) Increasing Total for FAD1 by 9265.9, giving 9684.76529675

ALUMINUM POWDER (@3.84%) Increasing Total for FAD1 by 38.4, giving 9723.16529675

ETHYLBENZENE (@3.56%) Increasing Total for FAD3 by 0.356055, giving 2.360096935

PROPYLENE GLYCOL MONOMETHYL ETHER (@2.99%) Increasing Total for FAD1 by 2986.5, giving 12709.66529675

4-nonylphenol, branched (@2.43%) Increasing Total for FAD3 by 1.2126465, giving 3.572743435

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (@2.1%) Increasing Total for FAD1 by 2100, giving 14809.66529675

QUARTZ (<10 microns) (@1.29%) Increasing Total for FAD6 by 0.12928, giving 0.12928

QUARTZ (<10 microns) (@1.29%) Increasing Total for FAD3 by 1.2928, giving 4.865543435

UREA-FORMALDEHYDE RESIN, BUTYLATED (@1.27%) Increasing Total for FAD1 by 12.68, giving 14822.34529675

1-BUTANOL (@0.51%) Increasing Total for FAD1 by 513.74, giving 15336.08529675

IRON OXIDE BLACK (@0.45%) Increasing Total for FAD1 by 4.452, giving 15340.53729675

polyamide, modified (@0.39%) Increasing Total for FAD1 by 393, giving 15733.53729675

ALUMINUM HYDROXIDE (@0.34%) Increasing Total for FAD1 by 3.43, giving 15736.96729675

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (@0.23%) Increasing Total for FAD1 by 232.5573, giving 15969.52459675

o-Xylene (@0.2%) Increasing Total for FAD3 by 0.02, giving 4.885543435

ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (@0.20%) Increasing Total for FAD1 by 1.95, giving 15971.47459675

TOLUENE (@0.13%) Increasing Total for FAD3 by 0.01324813, giving 4.898791565

SILICA (@0.10%) Increasing Total for FAD1 by 98, giving 16069.47459675

ALUMINUM OXIDE (@0.06%) Increasing Total for FAD1 by 0.636, giving 16070.11059675

OLEIC ACID (@0.06%) Increasing Total for FAD1 by 0.6, giving 16070.71059675

ZIRCONIUM OXIDE (@0.05%) Increasing Total for FAD1 by 0.49, giving 16071.20059675

TRIMETHYLOLPROPANE (@0.04%) Increasing Total for FAD1 by 0.441, giving 16071.64159675

DINONYLPHENOL (@0.03%) Increasing Total for FAD3 by 0.014805, giving 4.913596565

Phenol, 2-nonyl-, branched (@0.03%) Increasing Total for FAD1 by 29.61, giving 16101.25159675

CALCIUM OXYDE (@0.02%) Increasing Total for FAD3 by 0.0106, giving 4.924196565

FORMALDEHYDE (@0.01%) Increasing Total for FAD6 by 0.012, giving 0.14128

FORMALDEHYDE (@0.01%) Increasing Total for FAD3 by 0.12, giving 5.044196565

2-METHOXY-1-PROPANOL (@0.01%) Increasing Total for FAD6 by 0.00435, giving 0.14563

ISOBUTYL ALCOHOL (@0.01%) Increasing Total for FAD1 by 6, giving 16107.25159675

BENZENE (@0.00%) Increasing Total for FAD6 by 0.0357265, giving 0.1813565

4,4-ISOPROPYLIDENEDIPHENOL (@0.0023958%) Increasing Total for FAD5 by 0.0023958, giving 3.63191664

CHLORITE-GROUP MINERALS (@0.00%) Increasing Total for FAD1 by 0.0212, giving 16107.27279675

DOLOMITE (@0.00%) Increasing Total for FAD1 by 0.0212, giving 16107.29399675

MAGNESIUM CARBONATE (@0.00%) Increasing Total for FAD1 by 0.0212, giving 16107.31519675

PHENOL (@0.00%) Increasing Total for FAD1 by 1.2435, giving 16108.55869675

Phenol, 2,4-dinonyl-, branched (@0.00%) Increasing Total for FAD1 by 0.75, giving 16109.30869675

ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000012, giving 0.000012

METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.000010485, giving 0.181366985

METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.0002097, giving 5.044406265

ALLYL GLYCIDYL ETHER (@0.00%) Increasing Total for FAD1 by 0.2097, giving 16109.51839675

Figure-after-the-dash =5. Total of components with FAD=5 is >=1.

Low Boiling Liquid = False.

METHYL ALCOHOL (@0.00%) Total increased by $0.00 \times 54 / 100 = 0.00$. 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 : 4-5

MAL Number : 1832.1

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: 4-5

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

- Protective clothing 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. 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, protective clothing and eye protection must be worn.

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

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

When spraying in existing* spray 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. 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 protective clothing 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, protective clothing 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.