Audit - EU DK MAL Code

SIGMAGUARD 720 BASE GREEN

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 3-5

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

Product is a Liquid

SIGMAGUARD 720 BASE GREEN - Components considered for the MAL Code calculation. {Denmark MAL Code}

QUARTZ (>10 microns) (40.58086%)

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 = 405.809

Bisphenol A diglycidyl ether (25.09975402%)

CAS: 1675-54-3

Density: 1.16

Relative Density: 1.17

Molecular Weight: 340.45

Vapour Pressure: 0.0000675054

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

MAL Factor entered: 0. Limit: 0

FAD entered: 5; Lower Limit: 1

FAD 5 Quotient = 25.100

XYLENES (6.1666424%)

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: 1; Lower Limit: 0.2

FAD 3 Quotient = 0.617

FAD 1 Quotient = 30.833

QUARTZ (<10 microns) (4.56464%)

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 = 0.456
FAD 3 Quotient = 4.565

TITANIUM DIOXIDE (4.25475%)
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 = 4254.75

EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) (3.8994852%)
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: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.780

4-nonylphenol, branched (2.997%)
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 = 1.498

CHLORITE-GROUP MINERALS (2.80555%)
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: 0.1
FAD 1 Quotient = 28.056

Talc, non-asbestos form (2.5795%)
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 = 25.795

ISOBUTYL ALCOHOL (2.5%)
Organic Solvent.
CAS: 78-83-1
Density: 0.802
Relative Density: 0.8
Molecular Weight: 74.14
Boiling Point: 108
Vapour Pressure: 10.8
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 = 2500

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (1.116%)
CAS: 220926-97-6
Density: 1.02
Vapour Pressure: 0.000326
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor from OEL: 0
R Phrases: Xn;R20
FAD: 3. (Xn)
FAD 3 Quotient = 1116

ETHYLBENZENE (1.095%)
Organic Solvent.
Carcinogen.
CAS: 100-41-4
Density: 0.866
Relative Density: 0.9
Molecular Weight: 106.18
Boiling Point: 136.1
Vapour Pressure: 9.3
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 = 0.110

Solvent naphtha (petroleum), light arom. (1%)
CAS: 64742-95-6
Density: 0.875
Boiling Point: 167.5
Vapour Pressure: 5.66
No LBL Factor entered or estimated from CAS Number or Boiling Point.
R Phrases: R10 N;R51/53
MAL Factor from Sub-Annex 2: 50

FAD: 1. (Default)
FAD 1 Quotient = 1000
2,6-DIMETHYLHEPTANONE (0.6352%)
Organic Solvent.
CAS: 108-83-8
Density: 0.81
Relative Density: 0.805
Molecular Weight: 142.27
Boiling Point: 168.26
Vapour Pressure: 1.73
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 = 635.2
ALUMINUM HYDROXIDE (0.1575%)
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 = 1.575
4,6-DIMETHYL-2-HEPTANONE (0.1566424%)
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 = 156.642
non-hazardous polymer (0.084%)
CAS: SUB137438
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 84
DOLOMITE (0.055%)
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 = 0.55
EXTENDER (0.05445%)
CAS: 13397-26-7
Density: 2.799

Molecular Weight: 100.09
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 = 0.544

SILICA (0.045%)
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 = 45

TOLUENE (0.03726%)
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 = 0.004

ZIRCONIUM OXIDE (0.0225%)
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 = 0.225

1-METHOXY-2-PROPYL ACETATE (0.02137054884%)
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 = 21.371

TRIMETHYLOLPROPANE (0.02025%)
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 = 0.202
CARBON BLACK (0.01944%)
CAS: 1333-86-4
Density: 1.8
Relative Density: 1.95
Molecular Weight: 12.01
Boiling Point: 4200
Vapour Pressure: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.001
FAD 3 Quotient = 0.002
acrylic copolymer (0.0137088%)
CAS: SUB110897
Density: 1.09
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 13.709
fluoro-modified silicone (0.00792%)
CAS: SUB142330
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 7.92
BLOCK COPOLYMER (0.0026832%)
CAS: SUB101356
Density: 1.1
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 2.683
PHENOL (0.0015%)
Organic Solvent.
CAS: 108-95-2
Density: 1.06
Molecular Weight: 94.11

Boiling Point: 181.75
Vapour Pressure: 0.15
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 = 1.5

Phenol, 2,4-dinonyl-, branched (0.0015%)
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 = 1.5

DIMETHYL GLUTARATE (0.0011463984%)
CAS: 1119-40-0
Density: 1.09
Molecular Weight: 160.17
Boiling Point: 216
Vapour Pressure: 0.062
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 4. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 1.146

BENZENE (0.0010976%)
Organic Solvent.
Carcinogen.
CAS: 71-43-2
Density: 0.877
Relative Density: 0.88
Molecular Weight: 78.12
Boiling Point: 80.09
Vapour Pressure: 75.01
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 = 0.011

N-BUTYL ACETATE (0.0007224%)
Organic Solvent.
CAS: 123-86-4
Density: 0.881
Relative Density: 0.88
Molecular Weight: 116.18
Boiling Point: 126
Vapour Pressure: 11.25
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 = 0.722
4,4-ISOPROPYLIDENEDIPHENOL (0.00063779%)
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 = 0.001
DIMETHYL SUCCINATE (0.0003924144%)
CAS: 106-65-0
Density: 1.119
Molecular Weight: 146.16
Boiling Point: 196.2
Vapour Pressure: 0.18
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 5. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 0.392
DIMETHYL ADIPATE (0.0001705032%)
CAS: 627-93-0
Density: 1.062
Molecular Weight: 174.22
Boiling Point: 230.9
Vapour Pressure: 0.021
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.002
EPICHLOROHYDRIN (0.00012299%)
Organic Solvent.
Carcinogen.
CAS: 106-89-8
Density: 1.18
Relative Density: 1.2
Molecular Weight: 92.52
Boiling Point: 117
Vapour Pressure: 17.1
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 5300. 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 = 0.005
METHYL METHACRYLATE (0.00012237552%)
Organic Solvent.

CAS: 80-62-6
Density: 0.94
Relative Density: 0.94
Molecular Weight: 100.13
Boiling Point: 100.36
Vapour Pressure: 27.75
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 46. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.000
FAD 3 Quotient = 0.000

2-METHOXY-1-PROPYL ACETATE (0.00008001072%)
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 = 0.000

OCTAMETHYLCYCLOTETRASILOXANE (0.0000792%)
CAS: 556-67-2
Density: 0.95
Relative Density: 0.96
Molecular Weight: 296.68
Boiling Point: 175
Vapour Pressure: 0.99
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 (0.0000792%)
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 = 0.001

dodecamethylcyclohexasiloxane (0.0000792%)
CAS: 540-97-6
Density: 0.98
Molecular Weight: 445.02
No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.079
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.00005872752%)
CAS: 7534-94-3
Density: 0.983
Molecular Weight: 222.33
Boiling Point: 275
Vapour Pressure: 0.01
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 5 Quotient = 0.000
FAD 3 Quotient = 0.000
N-BUTYL METHACRYLATE (0.00005816448%)
Organic Solvent.
CAS: 97-88-1
Density: 0.89
Relative Density: 0.9
Molecular Weight: 142.22
Boiling Point: 163
Vapour Pressure: 1.59
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 16. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 5 Quotient = 0.000
PROPYLENE GLYCOL MONOMETHYL ETHER (0.0000253488%)
Organic Solvent.
CAS: 107-98-2
Density: 0.92
Relative Density: 0.92
Molecular Weight: 90.14
Boiling Point: 120.17
Vapour Pressure: 8.5
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 28. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 0.025
WATER (0.00000715656%)
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
2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.000004896%)

CAS: 3775-90-4
Density: 0.914
Relative Density: 0.9
Molecular Weight: 185.3
Boiling Point: 215
Vapour Pressure: 0.04
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.000
FAD 5 Quotient = 0.000

METHYL ALCOHOL (0.0000034272%)
Organic Solvent.
CAS: 67-56-1
Density: 0.792
Relative Density: 0.79
Molecular Weight: 32.05
Boiling Point: 64.7
Vapour Pressure: 126.96
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

1-BUTANOL (0.0000021672%)
Organic Solvent.
CAS: 71-36-3
Density: 0.81
Relative Density: 0.81
Molecular Weight: 74.14
Boiling Point: 119
Vapour Pressure: 6.75
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 67. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 0.002

ACETIC ACID (0.0000019734%)
Organic Solvent.
CAS: 64-19-7
Density: 1.04
Relative Density: 1.05
Molecular Weight: 60.06
Boiling Point: 117.9
Vapour Pressure: 15.59
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

BUTYLATED HYDROXYTOLUENE (0.000000819%)
CAS: 128-37-0
Density: 1.03
Relative Density: 1.048
Molecular Weight: 220.39
Boiling Point: 265
Vapour Pressure: 0.01
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 3 Quotient = 0.000
ISOBUTYL METHACRYLATE (0.00000058752%)
Organic Solvent.
CAS: 97-86-9
Density: 0.88
Relative Density: 0.8858
Molecular Weight: 142.22
Boiling Point: 155
Vapour Pressure: 1.58
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 1. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.000
FAD 5 Quotient = 0.000
TIN (0.00000005676%)
CAS: 7440-31-5
Density: 7.2
Relative Density: 7.28
Molecular Weight: 118.69
Boiling Point: 2260
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor from OEL: 0
R Phrases: None
FAD: 1. (Default)
FAD 1 Quotient = 0.000
4-METHOXYPHENOL (0.00000002448%)
CAS: 150-76-5
Density: 1.6
Relative Density: 1.55
Molecular Weight: 124.15
Boiling Point: 243
Vapour Pressure: 0.01
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 5 Quotient = 0.000
Density = 1.575. Entered value.
Figure-before-the dash = 3

QUARTZ (>10 microns)(@40.58%). MAL Factor = 0. Total increased by 40.58*0=0. Running Total = 0
Bisphenol A diglycidyl ether(@25.10%). MAL Factor = 0. Total increased by 25.10*0=0. Running Total = 0
XYLENES(@6.17%). MAL Factor = 46. Total increased by 6.17*46=283.67. Running Total = 283.67
QUARTZ (<10 microns)(@4.56%). MAL Factor = 0. Total increased by 4.56*0=0. Running Total = 283.67
TITANIUM DIOXIDE(@4.25%). MAL Factor = 0. Total increased by 4.25*0=0. Running Total = 283.67
EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100)(@3.90%). MAL Factor = 0. Total increased by 3.90*0=0. Running Total = 283.67
4-nonylphenol, branched(@3.00%). MAL Factor = 0. Total increased by 3.00*0=0. Running Total = 283.67
CHLORITE-GROUP MINERALS(@2.81%). MAL Factor = 0. Total increased by 2.81*0=0. Running Total = 283.67
Talc, non-asbestos form(@2.58%). MAL Factor = 0. Total increased by 2.58*0=0. Running Total = 283.67
ISOBUTYL ALCOHOL(@2.5%). MAL Factor = 67. Total increased by 2.5*67=167.5. Running Total = 451.17
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine(@1.12%). MAL Factor = 0. Total increased by 1.12*0=0.00. Running Total = 451.17
ETHYLBENZENE(@1.10%). MAL Factor = 46. Total increased by 1.10*46=50.37. Running Total = 501.54
Solvent naphtha (petroleum), light arom.(@1%). MAL Factor = 50. Total increased by 1*50=50. Running Total = 551.54
2,6-DIMETHYLHEPTANONE(@0.64%). MAL Factor = 47. Total increased by 0.64*47=29.85. Running Total = 581.39
ALUMINUM HYDROXIDE(@0.16%). MAL Factor = 0. Total increased by 0.16*0=0. Running Total = 581.39
DOLOMITE(@0.06%). MAL Factor = 0. Total increased by 0.06*0=0. Running Total = 581.39
EXTENDER(@0.05%). MAL Factor = 0. Total increased by 0.05*0=0. Running Total = 581.39
SILICA(@0.04%). MAL Factor = 0. Total increased by 0.04*0=0. Running Total = 581.39
TOLUENE(@0.04%). MAL Factor = 74. Total increased by 0.04*74=2.76. Running Total = 584.15
ZIRCONIUM OXIDE(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 584.15
1-METHOXY-2-PROPYL ACETATE(@0.02%). MAL Factor = 19. Total increased by 0.02*19=0.41. Running Total = 584.55
TRIMETHYLOLPROPANE(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 584.55
CARBON BLACK(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 584.55
PHENOL(@0.00%). MAL Factor = 5000. Total increased by 0.00*5000=7.5. Running Total = 592.05
DIMETHYL GLUTARATE(@0.00%). MAL Factor = 4. Total increased by 0.00*4=0.00. Running Total = 592.06
BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00*880=0.97. Running Total = 593.02
N-BUTYL ACETATE(@0.00%). MAL Factor = 14. Total increased by 0.00*14=0.01. Running Total = 593.03
4,4-ISOPROPYLIDENEDIPHENOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.03
DIMETHYL SUCCINATE(@0.00%). MAL Factor = 5. Total increased by 0.00*5=0.00. Running Total = 593.04
DIMETHYL ADIPATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.04
EPICHLOROHYDRIN(@0.00%). MAL Factor = 5300. Total increased by 0.00*5300=0.65. Running Total = 593.69
METHYL METHACRYLATE(@0.00%). MAL Factor = 46. Total increased by 0.00*46=0.01. Running Total = 593.69
2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by 0.00*181=0.01. Running Total = 593.71
OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 593.71
Decamethylcyclopentasiloxane(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71
N-BUTYL METHACRYLATE(@0.00%). MAL Factor = 16. Total increased by 0.00*16=0.00. Running Total = 593.71
PROPYLENE GLYCOL MONOMETHYL ETHER(@0.00%). MAL Factor = 28. Total increased by 0.00*28=0.00. Running Total = 593.71
WATER(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71
2-TERT-BUTYLAMINOETHYL METHACRYLATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71
METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by 0.00*54=0.00. Running Total = 593.71
1-BUTANOL(@0.00%). MAL Factor = 67. Total increased by 0.00*67=0.00. Running Total = 593.71
ACETIC ACID(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 593.71
BUTYLATED HYDROXYTOLUENE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71
ISOBUTYL METHACRYLATE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 593.71
TIN(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 593.71
4-METHOXYPHENOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 593.71

Figure-before-the-dash calculated as 3. Via MAL Factor Total * Density (593.71 * 1.575) giving a MAL Number of 935
MAL Number = Density (1.575) * Sum (593.71) = 935
Figure-after-the-dash = 5. Calculated from component data.
QUARTZ (>10 microns) (@40.58%) Increasing Total for FAD1 by 405.8086, giving 405.8086
Bisphenol A diglycidyl ether (@25.09975402%) Increasing Total for FAD5 by 25.09975402, giving 25.09975402
XYLENES (@6.17%) Increasing Total for FAD3 by 0.61666424, giving 0.61666424
XYLENES (@6.17%) Increasing Total for FAD1 by 30.833212, giving 436.641812
QUARTZ (<10 microns) (@4.56%) Increasing Total for FAD6 by 0.456464, giving 0.456464
QUARTZ (<10 microns) (@4.56%) Increasing Total for FAD3 by 4.56464, giving 5.18130424
TITANIUM DIOXIDE (@4.25%) Increasing Total for FAD1 by 4254.75, giving 4691.391812
EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) (@3.8994852%) Increasing Total for FAD5 by 0.77989704, giving 25.87965106
4-nonylphenol, branched (@3.00%) Increasing Total for FAD3 by 1.4985, giving 6.67980424
CHLORITE-GROUP MINERALS (@2.81%) Increasing Total for FAD1 by 28.0555, giving 4719.447312
Talc, non-asbestos form (@2.58%) Increasing Total for FAD1 by 25.795, giving 4745.242312
ISOBUTYL ALCOHOL (@2.5%) Increasing Total for FAD1 by 2500, giving 7245.242312
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (@1.12%) Increasing Total for FAD3 by 1116, giving 1122.67980424
ETHYLBENZENE (@1.10%) Increasing Total for FAD3 by 0.1095, giving 1122.78930424
Solvent naphtha (petroleum), light arom. (@1%) Increasing Total for FAD1 by 1000, giving 8245.242312
2,6-DIMETHYLHEPTANONE (@0.64%) Increasing Total for FAD1 by 635.2, giving 8880.442312
ALUMINUM HYDROXIDE (@0.16%) Increasing Total for FAD1 by 1.575, giving 8882.017312
4,6-DIMETHYL-2-HEPTANONE (@0.16%) Increasing Total for FAD1 by 156.6424, giving 9038.659712
non-hazardous polymer (@0.08%) Increasing Total for FAD1 by 84, giving 9122.659712
DOLOMITE (@0.06%) Increasing Total for FAD1 by 0.55, giving 9123.209712
EXTENDER (@0.05%) Increasing Total for FAD1 by 0.5445, giving 9123.754212
SILICA (@0.04%) Increasing Total for FAD1 by 45, giving 9168.754212
TOLUENE (@0.04%) Increasing Total for FAD3 by 0.003726, giving 1122.79303024
ZIRCONIUM OXIDE (@0.02%) Increasing Total for FAD1 by 0.225, giving 9168.979212
1-METHOXY-2-PROPYL ACETATE (@0.02%) Increasing Total for FAD1 by 21.37054884, giving 9190.34976084
TRIMETHYLOLPROPANE (@0.02%) Increasing Total for FAD1 by 0.2025, giving 9190.55226084
CARBON BLACK (@0.02%) Increasing Total for FAD6 by 0.0007776, giving 0.4572416
CARBON BLACK (@0.02%) Increasing Total for FAD3 by 0.001944, giving 1122.79497424
acrylic copolymer (@0.01%) Increasing Total for FAD1 by 13.7088, giving 9204.26106084
fluoro-modified silicone (@0.01%) Increasing Total for FAD1 by 7.92, giving 9212.18106084
BLOCK COPOLYMER (@0.00%) Increasing Total for FAD1 by 2.6832, giving 9214.86426084
PHENOL (@0.00%) Increasing Total for FAD1 by 1.5, giving 9216.36426084
Phenol, 2,4-dinonyl-, branched (@0.00%) Increasing Total for FAD1 by 1.5, giving 9217.86426084
DIMETHYL GLUTARATE (@0.00%) Increasing Total for FAD1 by 1.1463984, giving 9219.01065924
BENZENE (@0.00%) Increasing Total for FAD6 by 0.010976, giving 0.4682176
N-BUTYL ACETATE (@0.00%) Increasing Total for FAD1 by 0.7224, giving 9219.73305924
4,4-ISOPROPYLIDENEDIPHENOL (@0.00063779%) Increasing Total for FAD5 by 0.00063779, giving 25.88028885
DIMETHYL SUCCINATE (@0.00%) Increasing Total for FAD1 by 0.3924144, giving 9220.12547364
DIMETHYL ADIPATE (@0.00%) Increasing Total for FAD1 by 0.001705032, giving 9220.127178672
EPICHLOROHYDRIN (@0.00%) Increasing Total for FAD6 by 0.0012299, giving 0.4694475
EPICHLOROHYDRIN (@0.00%) Increasing Total for FAD3 by 0.0049196, giving 1122.79989384
METHYL METHACRYLATE (@0.00012237552%) Increasing Total for FAD5 by 0.000024475104, giving 25.880313325104
METHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00012237552, giving 1122.80001621552
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.0004000536, giving 0.4698475536

OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.0000792, giving 1122.80009541552
Decamethylcyclopentasiloxane (@0.00%) Increasing Total for FAD1 by 0.000792, giving 9220.127970672
dodecamethylcyclohexasiloxane (@0.00%) Increasing Total for FAD1 by 0.0792, giving 9220.207170672
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00005872752%) Increasing Total for FAD5 by 0.000011745504, giving 25.880325070608
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00%) Increasing Total for FAD3 by 0.00005872752, giving 1122.80015414304
N-BUTYL METHACRYLATE (@0.00005816448%) Increasing Total for FAD5 by 0.00005816448, giving 25.880383235088
PROPYLENE GLYCOL MONOMETHYL ETHER (@0.00%) Increasing Total for FAD1 by 0.0253488, giving 9220.232519472
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.000004896%) Increasing Total for FAD5 by 0.0000009792, giving 25.880384214288
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000004896, giving 1122.80015903904
METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.00000017136, giving 0.46984772496
METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.0000034272, giving 1122.80016246624
1-BUTANOL (@0.00%) Increasing Total for FAD1 by 0.0021672, giving 9220.234686672
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.000000078936, giving 0.000000078936
BUTYLATED HYDROXYTOLUENE (@0.00%) Increasing Total for FAD3 by 0.0000000819, giving 1122.80016254814
ISOBUTYL METHACRYLATE (@0.00000058752%) Increasing Total for FAD5 by 0.000000117504, giving 25.880384331792
ISOBUTYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00000058752, giving 1122.80016313566
TIN (@0.00%) Increasing Total for FAD1 by 0.00005676, giving 9220.234743432
4-METHOXYPHENOL (@0.00000002448%) Increasing Total for FAD5 by 0.00000002448, giving 25.880384356272
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*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	:	3-5
MAL Number	:	935.093
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: 3-5

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.

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. 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.

- 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 MAL	:	Not available.
		Not available.
		Not available.