

Audit - EU DK MAL Code

PPG VIKOTE 56 GREY 5177

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 5-3

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

Product is a Liquid

PPG VIKOTE 56 GREY 5177 - Components considered for the MAL Code calculation. {Denmark MAL Code}

Hydrocarbons, C9, aromatics (33.3721%)

CAS: 64742-95-6

Density: 0.879

Molecular Weight: 123

Boiling Point: 172.5

Vapour Pressure: 1.5

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

MAL Factor entered: 58. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 333.721

ACRYLIC RESIN (26.5284%)

CAS: 25987-66-0

Density: 1.05

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 = 265.284

XYLENES (15.1858944%)

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 = 1.519

FAD 1 Quotient = 75.929

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (7.95852%)

CAS: 64742-95-6

Density: 0.878

Molecular Weight: 123

Boiling Point: 172.5

Vapour Pressure: 1.500123

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

MAL Factor entered: 58. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 79.585

TITANIUM DIOXIDE (6.7152528%)

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 = 6715.253

PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED (3.8%)

CAS: 63449-39-8

Density: 1.21

Relative Density: 1

Molecular Weight: 462

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 = 3800

ETHYLBENZENE (3.4749327024%)

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 = 0.347

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (0.921750216%)

CAS: 68953-58-2

Density: 1.7

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 = 9.218

N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (0.55%)

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 = 5.5

cyclohexanone (0.3972%)

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 = 397.2

ETHYL ALCOHOL (0.332562872%)

Organic Solvent.

CAS: 64-17-5

Density: 0.786

Relative Density: 0.8

Molecular Weight: 46.08

Boiling Point: 78.29

Vapour Pressure: 42.94865

LBLFactor = 200 (CAS=64175)

MAL Factor entered: 7. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 332.563

ALUMINUM HYDROXIDE (0.252%)

CAS: 21645-51-2

Density: 2.42

Molecular Weight: 78

Vapour Pressure: 0.0675

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

MAL Factor entered: 0. Limit: 0

FAD entered: 1; Lower Limit: 0.1

FAD 1 Quotient = 2.52

BLOCKED COPOLYMER (0.135432%)

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 = 1.354

TITANIUM DIOXIDE (<10 microns) (0.0671472%)

Carcinogen.

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 = 67.147

TRIMETHYLOLPROPANE (0.0576%)

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 = 0.576

SILICA (0.0504%)

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 = 50.4

1-METHOXY-2-PROPYL ACETATE (0.03762%)

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 = 37.62

N-BUTYL ACETATE (0.0361152%)

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 = 36.115
WATER (0.036008752%)
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
ZIRCONIUM OXIDE (0.0216%)
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 = 0.216
QUARTZ (>10 microns) (0.0190032%)
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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.190
METHYL ALCOHOL (0.017504%)
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 = 0.001
FAD 3 Quotient = 0.018
CARBON BLACK (0.0137%)
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 = 0.001

QUARTZ (<10 microns) (0.009406584%)

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: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.001
FAD 3 Quotient = 0.009

IRON HYDROXIDE OXIDE (0.0061959142%)

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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.062

Siloxanes (0.0027996%)

CAS: SUB113257
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 = 2.800

2-METHOXY-1-PROPYL ACETATE (0.0002979504%)

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 = 0.001

organotin compound (0.0002979504%)

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 = 0.298

TOLUENE (0.000180576%)

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 = 0.000

CUMENE (0.000060192%)

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

BENZENE (0.0000090288%)

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 = 0.000

DENATONIUM BENZOATE (0.00000332576%)

CAS: 3734-33-6

Density: 0

Molecular Weight: 446.59

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 0.003

MANGANESE (0.000001054%)

CAS: 7439-96-5

Density: 7.47

Molecular Weight: 54.94

Boiling Point: 1962

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 2 Quotient = 0.000

SILVER (0.0000007812%)

CAS: 7440-22-4

Density: 10.49

Relative Density: 10.5

Molecular Weight: 107.87

Boiling Point: 2212

Vapour Pressure: 0.001

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 = 0.000

CHROMIUM (0.0000006758%)

CAS: 7440-47-3

Density: 7.15

Relative Density: 7.14

Molecular Weight: 52

Boiling Point: 2642

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

COPPER (0.0000006014%)

CAS: 7440-50-8

Density: 8.78

Relative Density: 8.9

Molecular Weight: 63.55

Boiling Point: 2595

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 2 Quotient = 0.000

ACETIC ACID (0.00000052512%)

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

ACETONE (0.00000052512%)

Organic Solvent.
CAS: 67-64-1
Density: 0.791
Relative Density: 0.8
Molecular Weight: 58.09
Boiling Point: 56.05
Vapour Pressure: 180.01463
LBLFactor = 100 (BP=56.05)
MAL Factor entered: 23. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 0.001

OCTAMETHYLCYCLOTETRASILOXANE (0.0000004%)

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

ZINC (0.0000003658%)

CAS: 7440-66-6
Density: 7.1
Relative Density: 7.14
Molecular Weight: 65.37
Boiling Point: 908
Vapour Pressure: 0.000000075
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 = 0.000

NICKEL (0.0000002852%)

Carcinogen.
CAS: 7440-02-0
Density: 8.9
Relative Density: 8.9
Molecular Weight: 58.71

Boiling Point: 2730

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 6 Quotient = 0.000

MOLYBDENUM (0.000000124%)

CAS: 7439-98-7

Density: 10.2

Relative Density: 10.28

Molecular Weight: 95.94

Boiling Point: 4612

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

ANTIMONY (0.0000000558%)

CAS: 7440-36-0

Density: 6.7

Molecular Weight: 121.75

Boiling Point: 1635

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

MAL Factor from OEL: 0

R Phrases: T;R25

FAD: 1. (Default)

FAD 1 Quotient = 0.000

BARIUM (0.0000000434%)

CAS: 7440-39-3

Density: 3.6

Relative Density: 3.6

Molecular Weight: 137.34

Boiling Point: 1640

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

MAL Factor from OEL: 0

R Phrases: F;R15 Xi;R38 Xi;R36 Xi;R37

FAD: 1. (Default)

FAD 1 Quotient = 0.000

ARSENIC (0.0000000372%)

Carcinogen.

CAS: 7440-38-2

Density: 5.7

Relative Density: 5.73

Molecular Weight: 74.92

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 = 0.000
COBALT (0.0000000186%)
Carcinogen.
CAS: 7440-48-4
Density: 8.9
Relative Density: 8.92
Molecular Weight: 58.93
Boiling Point: 2870
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 = 0.000

VANADIUM (0.0000000186%)
CAS: 7440-62-2
Density: 6.57
Relative Density: 6.11
Molecular Weight: 50.94
Boiling Point: 3000
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.000

Lead (0.0000000124%)
CAS: 7439-92-1
Density: 11.34
Relative Density: 11.34
Molecular Weight: 207.19
Boiling Point: 660
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 6 Quotient = 0.000

CADMIUM (0.0000000124%)
Carcinogen.
CAS: 7440-43-9
Density: 8.64
Relative Density: 8.64
Molecular Weight: 112.4
Boiling Point: 766.85
Vapour Pressure: 0.97507995
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 = 0.000

Density = 1.018. Entered value.

Figure-before-the dash = 5

Hydrocarbons, C9, aromatics (@33.37%). MAL Factor = 58. Total increased by $33.37 \times 58 = 1935.58$. Running Total = 1935.58

ACRYLIC RESIN(@26.53%). MAL Factor = 0. Total increased by $26.53 \times 0 = 0$. Running Total = 1935.58
 XYLENES(@15.19%). MAL Factor = 46. Total increased by $15.19 \times 46 = 698.55$. Running Total = 2634.13
 SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC(@7.96%). MAL Factor = 58. Total increased by $7.96 \times 58 = 461.59$. Running Total = 3095.73
 TITANIUM DIOXIDE(@6.72%). MAL Factor = 0. Total increased by $6.72 \times 0 = 0$. Running Total = 3095.73
 PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED(@3.8%). MAL Factor = 0. Total increased by $3.8 \times 0 = 0$. Running Total = 3095.73
 ETHYLBENZENE(@3.47%). MAL Factor = 46. Total increased by $3.47 \times 46 = 159.85$. Running Total = 3255.57
 QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.,BENTONITE(@0.92%). MAL Factor = 0. Total increased by $0.92 \times 0 = 0$. Running Total = 3255.57
 N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE)(@0.55%). MAL Factor = 0. Total increased by $0.55 \times 0 = 0$. Running Total = 3255.57
 cyclohexanone(@0.40%). MAL Factor = 70. Total increased by $0.40 \times 70 = 27.80$. Running Total = 3283.38
 ETHYL ALCOHOL(@0.33%). MAL Factor = 7. Total increased by $0.33 \times 7 = 2.33$. Running Total = 3285.71
 ALUMINUM HYDROXIDE(@0.25%). MAL Factor = 0. Total increased by $0.25 \times 0 = 0$. Running Total = 3285.71
 BLOCKED COPOLYMER(@0.14%). MAL Factor = 0. Total increased by $0.14 \times 0 = 0$. Running Total = 3285.71
 TITANIUM DIOXIDE (<10 microns)(@0.07%). MAL Factor = 0. Total increased by $0.07 \times 0 = 0$. Running Total = 3285.71
 TRIMETHYLOLPROPANE(@0.06%). MAL Factor = 0. Total increased by $0.06 \times 0 = 0$. Running Total = 3285.71
 SILICA(@0.05%). MAL Factor = 0. Total increased by $0.05 \times 0 = 0$. Running Total = 3285.71
 1-METHOXY-2-PROPYL ACETATE(@0.04%). MAL Factor = 19. Total increased by $0.04 \times 19 = 0.71$. Running Total = 3286.42
 N-BUTYL ACETATE(@0.04%). MAL Factor = 14. Total increased by $0.04 \times 14 = 0.51$. Running Total = 3286.93
 WATER(@0.04%). MAL Factor = 0. Total increased by $0.04 \times 0 = 0$. Running Total = 3286.93
 ZIRCONIUM OXIDE(@0.02%). MAL Factor = 0. Total increased by $0.02 \times 0 = 0$. Running Total = 3286.93
 QUARTZ (>10 microns)(@0.02%). MAL Factor = 0. Total increased by $0.02 \times 0 = 0$. Running Total = 3286.93
 METHYL ALCOHOL(@0.02%). MAL Factor = 54. Total increased by $0.02 \times 54 = 0.95$. Running Total = 3287.87
 CARBON BLACK(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 3287.87
 QUARTZ (<10 microns)(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 3287.87
 IRON HYDROXIDE OXIDE(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 3287.87
 2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by $0.00 \times 181 = 0.05$. Running Total = 3287.93
 organotin compound(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 3287.93
 TOLUENE(@0.00%). MAL Factor = 74. Total increased by $0.00 \times 74 = 0.01$. Running Total = 3287.94
 CUMENE(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 3287.94
 BENZENE(@0.00%). MAL Factor = 880. Total increased by $0.00 \times 880 = 0.01$. Running Total = 3287.95
 MANGANESE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 SILVER(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 CHROMIUM(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 COPPER(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by $0.00 \times 400 = 0.00$. Running Total = 3287.95
 ACETONE(@0.00%). MAL Factor = 23. Total increased by $0.00 \times 23 = 0.00$. Running Total = 3287.95
 OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 3287.95
 ZINC(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 NICKEL(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 MOLYBDENUM(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 3287.95
 ANTIMONY(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 3287.95
 BARIUM(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 3287.95
 ARSENIC(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 COBALT(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 Lead(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95
 CADMIUM(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 3287.95

Figure-before-the-dash calculated as 5. Via MAL Factor Total * Density (3287.95 * 1.018) giving a MAL Number of 3347

MAL Number = Density (1.018) * Sum (3287.95) = 3347

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

Hydrocarbons, C9, aromatics (@33.37%) Increasing Total for FAD1 by 333.721, giving 333.721
ACRYLIC RESIN (@26.53%) Increasing Total for FAD1 by 265.284, giving 599.005
XYLENES (@15.19%) Increasing Total for FAD3 by 1.51858944, giving 1.51858944
XYLENES (@15.19%) Increasing Total for FAD1 by 75.929472, giving 674.934472
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC (@7.96%) Increasing Total for FAD1 by 79.5852, giving 754.519672
TITANIUM DIOXIDE (@6.72%) Increasing Total for FAD1 by 6715.2528, giving 7469.772472
PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED (@3.8%) Increasing Total for FAD1 by 3800, giving 11269.772472
ETHYLBENZENE (@3.47%) Increasing Total for FAD3 by 0.34749327024, giving 1.86608271024
QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (@0.92%) Increasing Total for FAD1 by 9.21750216, giving 11278.98997416
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (@0.55%) Increasing Total for FAD1 by 5.5, giving 11284.48997416
cyclohexanone (@0.40%) Increasing Total for FAD1 by 397.2, giving 11681.68997416
ETHYL ALCOHOL (@0.33%) Increasing Total for FAD1 by 332.562872, giving 12014.25284616
ALUMINUM HYDROXIDE (@0.25%) Increasing Total for FAD1 by 2.52, giving 12016.77284616
BLOCKED COPOLYMER (@0.14%) Increasing Total for FAD1 by 1.35432, giving 12018.12716616
TITANIUM DIOXIDE (<10 microns) (@0.07%) Increasing Total for FAD1 by 67.1472, giving 12085.27436616
TRIMETHYLOLPROPANE (@0.06%) Increasing Total for FAD1 by 0.576, giving 12085.85036616
SILICA (@0.05%) Increasing Total for FAD1 by 50.4, giving 12136.25036616
1-METHOXY-2-PROPYL ACETATE (@0.04%) Increasing Total for FAD1 by 37.62, giving 12173.87036616
N-BUTYL ACETATE (@0.04%) Increasing Total for FAD1 by 36.1152, giving 12209.98556616
ZIRCONIUM OXIDE (@0.02%) Increasing Total for FAD1 by 0.216, giving 12210.20156616
QUARTZ (>10 microns) (@0.02%) Increasing Total for FAD1 by 0.190032, giving 12210.39159816
METHYL ALCOHOL (@0.02%) Increasing Total for FAD6 by 0.0008752, giving 0.0008752
METHYL ALCOHOL (@0.02%) Increasing Total for FAD3 by 0.017504, giving 1.88358671024
CARBON BLACK (@0.01%) Increasing Total for FAD6 by 0.000548, giving 0.0014232
CARBON BLACK (@0.01%) Increasing Total for FAD3 by 0.00137, giving 1.88495671024
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD6 by 0.0009406584, giving 0.0023638584
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD3 by 0.009406584, giving 1.89436329424
IRON HYDROXIDE OXIDE (@0.01%) Increasing Total for FAD1 by 0.061959142, giving 12210.453557302
Siloxanes (@0.00%) Increasing Total for FAD1 by 2.7996, giving 12213.253157302
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.001489752, giving 0.0038536104
organotin compound (@0.00%) Increasing Total for FAD1 by 0.2979504, giving 12213.551107702
TOLUENE (@0.00%) Increasing Total for FAD3 by 0.0000180576, giving 1.89438135184
CUMENE (@0.00%) Increasing Total for FAD3 by 0.000060192, giving 1.89444154384
BENZENE (@0.00%) Increasing Total for FAD6 by 0.000090288, giving 0.0039438984
DENATONIUM BENZOATE (@0.00%) Increasing Total for FAD1 by 0.00332576, giving 12213.554433462
MANGANESE (@0.00%) Increasing Total for FAD2 by 0.000001054, giving 0.000001054
SILVER (@0.00%) Increasing Total for FAD1 by 0.000007812, giving 12213.554441274
CHROMIUM (@0.00%) Increasing Total for FAD3 by 0.00000006758, giving 1.89444161142
COPPER (@0.00%) Increasing Total for FAD2 by 0.000000200466666666666666666667, giving 0.000001254466666666666666666667
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.0000000210048, giving 0.0000000210048
ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.000000052512, giving 1.894441663932
ACETONE (@0.00%) Increasing Total for FAD1 by 0.00052512, giving 12213.554966394
OCTAMETHYLCYCLOTETRAILOXANE (@0.00%) Increasing Total for FAD3 by 0.0000004, giving 1.894442063932
ZINC (@0.00%) Increasing Total for FAD1 by 0.000003658, giving 12213.554970052
NICKEL (@0.00%) Increasing Total for FAD6 by 0.00000005704, giving 0.00394395544
NICKEL (@0.0000002852%) Increasing Total for FAD5 by 0.000002852, giving 0.000002852
MOLYBDENUM (@0.00%) Increasing Total for FAD1 by 0.000124, giving 12213.555094052
ANTIMONY (@0.00%) Increasing Total for FAD1 by 0.0000558, giving 12213.555149852

BARIUM (@0.00%) Increasing Total for FAD1 by 0.0000434, giving 12213.555193252
ARSENIC (@0.00%) Increasing Total for FAD6 by 0.000000186, giving 0.00394414144
COBALT (@0.00%) Increasing Total for FAD6 by 0.000000186, giving 0.00394432744
VANADIUM (@0.00%) Increasing Total for FAD1 by 0.0000186, giving 12213.555211852
Lead (@0.00%) Increasing Total for FAD6 by 0.00000000124, giving 0.00394432868
Lead (@0.00%) Increasing Total for FAD3 by 0.0000000496, giving 1.894442113532
CADMIUM (@0.00%) Increasing Total for FAD6 by 0.000000124, giving 0.00394445268
Figure-after-the-dash =3. Total of components with FAD=3 is >=1.

Low Boiling Liquid = False.

ETHYL ALCOHOL (@0.33%) Total increased by $0.33 \times 7 / 200 = 0.01$. Running Total = 0.01
METHYL ALCOHOL (@0.02%) Total increased by $0.02 \times 54 / 100 = 0.01$. Running Total = 0.02
ACETONE (@0.00%) Total increased by $0.00 \times 23 / 100 = 0.00$. Running Total = 0.02
Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.02

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 : 5-3
MAL Number : 3347.13
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: 5-3

Application: When spraying in new* 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. When using scraper or knife, brush, roller, etc. for pre- and post-treatments outside a closed facility, spray booth or spray cabin.

- Air-supplied full mask 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.

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 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.