Audit - EU DK MAL Code

PPG AQUACOVER 40 (TINTED)

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 0-3

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

Product is a Liquid

PPG AQUACOVER 40 (TINTED) - Components considered for the MAL Code calculation. {Denmark MAL Code}

WATER (47.800661678%)
- 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

ACRYLIC POLYMER (29.98002%)
- CAS: SUB100637
- 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 = 29980.02

ALUMINUM SILICATE (13.087314826%)
- CAS: 1332-58-7
- Density: 2.6
- Relative Density: 2.6
- 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 = 130.873

2;2;4-TRIMETHYL-1;3-PENTANEDIOL MONOISOBUTYRATE (2.955%)
- CAS: 25265-77-4
- Density: 0.95
- Relative Density: 0.95
- Molecular Weight: 216.36
- Boiling Point: 257.5
- Vapour Pressure: 0.0098
- 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 = 2955

ZINC OXIDE (2.699865%)
CAS: 1314-13-2
Density: 5.68
Relative Density: 5.61
Molecular Weight: 81.37
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 = 2699.865
2-BUTOXY ETHANOL (0.669397%)
Organic Solvent.
CAS: 111-76-2
Density: 0.9
Relative Density: 0.9
Molecular Weight: 118.18
Boiling Point: 171.25
Vapour Pressure: 0.75
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 = 0.067
ALIPHATIC POLYURETHANE RESIN (0.40729008%)
CAS: SUB117913
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 = 407.290
nonionic emulsifiers (0.4%)
CAS: SUB136362
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 400
acrylic copolymer (0.385%)
CAS: SUB109632
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 = 385
PROPYLENE GLYCOL (0.308%)
CAS: 57-55-6
Density: 1.036
Relative Density: 1.04
Molecular Weight: 76.11
Boiling Point: 188.2

Vapour Pressure: 0.15
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 = 308

Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(nonylphenoxy)-, branched, ammonium salt (0.20184%)
CAS: 68649-55-8
Density: 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 3 Quotient = 0.101

HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES (0.16%)
CAS: 64742-52-5
Density: 0.92
Boiling Point: 478.5
Vapour Pressure: 0.072
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 12. Limit: 0
FAD entered: 1; Lower Limit: 0.1
FAD 1 Quotient = 1.6

NAPHTHA (0.16%)
CAS: 64742-53-6
Density: 0
Boiling Point: 478.5
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor from OEL: 0
R Phrases: Xn;R20
FAD: 1. (Default)
FAD 1 Quotient = 160

QUARTZ (<10 microns) (0.130878%)
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 = 0.013
FAD 3 Quotient = 0.131

Ethanol, 2-amino-, compd. with .alpha.-sulfo-.omega.-(nonylphenoxy)poly(oxy-1,2-ethanediyl) (1:1) (0.11214%)
CAS: 51617-74-4
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)

FAD 1 Quotient = 112.14
SODIUM NITRITE (0.096%)
CAS: 7632-00-0
Density: 2.2
Relative Density: 2.17
Molecular Weight: 69
Boiling Point: 320
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 = 0.48
FAD 3 Quotient = 0.96
ACRYLIC RESIN (0.0829641%)
CAS: SUB102022
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 = 82.964
AMMONIUM HYDROXIDE (0.06245%)
CAS: 1336-21-6
Density: 0.9
Relative Density: 0.9
Molecular Weight: 35.06
Boiling Point: 38
Vapour Pressure: 360.03
LBLFactor = 100 (BP=38)
MAL Factor entered: 50. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 4 Quotient = 0.002
FAD 3 Quotient = 0.012
AMMONIUM BENZOATE (0.06%)
CAS: 1863-63-4
Density: 1.26
Relative Density: 1.26
Molecular Weight: 139.15
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 = 0.06
DIMETHYLAMINOETHANOL (0.042%)
Organic Solvent.
CAS: 108-01-0
Density: 0.89
Relative Density: 0.89
Molecular Weight: 89.14
Boiling Point: 134.1
Vapour Pressure: 4.59

No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 280. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.004
FAD 2 Quotient = 0.021
hydrophobic silica (0.04%)
CAS: SUB136359
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 40
Emitter-green-benzofuranyls impurity (0.04%)
CAS: SUB136560
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 40
HYDROXYETHYL CELLULOSE (0.025%)
CAS: 9004-62-0
Density: 1.33
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 = 0.25
organically modified powdered clay (0.025%)
CAS: SUB138613
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 25
2;2;4-TRIMETHYL-1;3-PENTANEDIOL (0.015%)
CAS: 144-19-4
Density: 0
Molecular Weight: 146.26
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 15
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (0.015%)
CAS: 6846-50-0
Density: 0.94
Molecular Weight: 286.46
Boiling Point: 280
Vapour Pressure: 0.0099
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 = 0.15
ISOBUTYRALDEHYDE (0.015%)
CAS: 78-84-2
Density: 0.794
Relative Density: 0.8
Molecular Weight: 72.12
Boiling Point: 64.4
Vapour Pressure: 173
LBLFactor = 100 (BP=64.4)
R Phrases: F;R11 Xn;R22 Xi;R36
MAL Factor from Sub-Annex 2: 1000
FAD: 1. (Default)
FAD 1 Quotient = 15
N-BUTYL METHACRYLATE (0.0099%)
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 = 0.010
surfactant (0.0043359%)
CAS: SUB143026
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 4.336
ISOTHIAZOLONE SOLUTION (0.001824396%)
CAS: 55965-84-9
Density: 0.9
Molecular Weight: 264.76
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 1.824
Copper Nitrate (0.0015%)
CAS: 3251-23-8
Density: 0
Molecular Weight: 187.56
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
METHACRYLIC ACID (0.001045%)
Organic Solvent.
CAS: 79-41-4
Density: 1.014
Relative Density: 1.02
Molecular Weight: 86.1
Boiling Point: 163
Vapour Pressure: 0.73
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 286. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.001
FAD 5 Quotient = 0.000
METHYL METHACRYLATE (0.001045%)
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 = 0.001
MANGANESE (0.00103116%)
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 = 0.001
ETHYLENE GLYCOL (0.000603%)
Organic Solvent.
CAS: 107-21-1
Density: 1.11
Relative Density: 1.1
Molecular Weight: 62.07
Boiling Point: 197.4
Vapour Pressure: 0.05
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
ACRYLONITRILE (0.00054%)
Organic Solvent.
Carcinogen.
CAS: 107-13-1
Density: 0.806
Relative Density: 0.8
Molecular Weight: 53.06
Boiling Point: 77.3
Vapour Pressure: 82.51
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 5. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 6 Quotient = 0.005
HEXAN-1-OL (0.00044676%)
CAS: 111-27-3
Density: 0.814
Relative Density: 0.82
Molecular Weight: 102.18
Boiling Point: 155
Vapour Pressure: 0.93
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
ETHYL ALCOHOL (0.0004365%)
Organic Solvent.
CAS: 64-17-5
Density: 0.786
Relative Density: 0.8
Molecular Weight: 46.08
Boiling Point: 78.29
Vapour Pressure: 42.95
LBLFactor = 200 (CAS=64175)
MAL Factor entered: 7. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 0.436
ZINC (0.000322568%)
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 = 0.003
COPPER (0.000318602%)
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
2-ETHYLHEXANOIC ACID (0.00024276%)
CAS: 149-57-5
Density: 0.9
Relative Density: 0.9
Molecular Weight: 144.24
Boiling Point: 227.5
Vapour Pressure: 0.03
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
residual monomers (0.000204%)
CAS: SUB142981
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.204
LEAD OXIDE (0.000135%)
Carcinogen.
CAS: 1317-36-8
Density: 9.5
Molecular Weight: 223.2
Boiling Point: 1470
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
FAD 3 Quotient = 0.001
antioxidant (0.00009996%)
CAS: SUB143683
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.100
VANADIUM (0.000044948%)

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 = 0.045

NICKEL (0.000040982%)
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

COBALT (0.000029084%)
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

ARSENIC (0.000010576%)
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

FORMALDEHYDE (0.00000999%)
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
BARIUM (0.000009254%)
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 = 0.009
1,4-DIOXANE (0.000003876%)
Organic Solvent.
Carcinogen.
CAS: 123-91-1
Density: 1.03
Relative Density: 1.03
Molecular Weight: 88.12
Boiling Point: 101.15
Vapour Pressure: 30.75
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
Density = 1.188. Entered value.
Figure-before-the dash = 0
WATER(@47.80%). MAL Factor = 0. Total increased by 47.80*0=0. Running Total = 0
ALUMINUM SILICATE(@13.09%). MAL Factor = 0. Total increased by 13.09*0=0. Running Total = 0
2;2;4-TRIMETHYL-1;3-PENTANEDIOL MONOISOBUTYRATE(@2.96%). MAL Factor = 0. Total increased by 2.96*0=0. Running Total = 0
ZINC OXIDE(@2.70%). MAL Factor = 0. Total increased by 2.70*0=0. Running Total = 0
2-BUTOXY ETHANOL(@0.67%). MAL Factor = 25. Total increased by 0.67*25=16.73. Running Total = 16.73
PROPYLENE GLYCOL(@0.31%). MAL Factor = 0. Total increased by 0.31*0=0. Running Total = 16.73
Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(nonylphenoxy)-, branched, ammonium salt(@0.20%). MAL Factor = 0. Total increased by 0.20*0=0. Running Total = 16.73
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES(@0.16%). MAL Factor = 12. Total increased by 0.16*12=1.92. Running Total = 18.65
NAPHTHA(@0.16%). MAL Factor = 0. Total increased by 0.16*0=0.00. Running Total = 18.65
QUARTZ (<10 microns)(@0.13%). MAL Factor = 0. Total increased by 0.13*0=0. Running Total = 18.65
SODIUM NITRITE(@0.10%). MAL Factor = 0. Total increased by 0.10*0=0. Running Total = 18.65
AMMONIUM HYDROXIDE(@0.06%). MAL Factor = 50. Total increased by 0.06*50=3.12. Running Total = 21.78
AMMONIUM BENZOATE(@0.06%). MAL Factor = 0. Total increased by 0.06*0=0. Running Total = 21.78

DIMETHYLAMINOETHANOL(@0.04%). MAL Factor = 280. Total increased by 0.04*280=11.76. Running Total = 33.54
HYDROXYETHYL CELLULOSE(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 33.54
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate(@0.02%). MAL Factor = 0. Total increased by 0.02*0=0. Running Total = 33.54
ISOBUTYRALDEHYDE(@0.02%). MAL Factor = 1000. Total increased by 0.02*1000=15.00. Running Total = 48.54
N-BUTYL METHACRYLATE(@0.01%). MAL Factor = 16. Total increased by 0.01*16=0.16. Running Total = 48.70
Copper Nitrate(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 48.70
METHACRYLIC ACID(@0.00%). MAL Factor = 286. Total increased by 0.00*286=0.30. Running Total = 48.99
METHYL METHACRYLATE(@0.00%). MAL Factor = 46. Total increased by 0.00*46=0.05. Running Total = 49.04
MANGANESE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.04
ETHYLENE GLYCOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.04
ACRYLONITRILE(@0.00%). MAL Factor = 5. Total increased by 0.00*5=0.00. Running Total = 49.05
HEXAN-1-OL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
ETHYL ALCOHOL(@0.00%). MAL Factor = 7. Total increased by 0.00*7=0.00. Running Total = 49.05
ZINC(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
COPPER(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
2-ETHYLHEXANOIC ACID(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
LEAD OXIDE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
NICKEL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
COBALT(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
ARSENIC(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 49.05
FORMALDEHYDE(@0.00%). MAL Factor = 2500. Total increased by 0.00*2500=0.02. Running Total = 49.07
BARIUM(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 49.07
1,4-DIOXANE(@0.00%). MAL Factor = 390. Total increased by 0.00*390=0.00. Running Total = 49.08
Figure-before-the-dash calculated as 0. Via MAL Factor Total * Density (49.08 * 1.188) giving a MAL Number of 58
MAL Number = Density (1.188) * Sum (49.08) = 58
Figure-after-the-dash = 3. Calculated from component data.
ACRYLIC POLYMER (@29.98%) Increasing Total for FAD1 by 29980.02, giving 29980.02
ALUMINUM SILICATE (@13.09%) Increasing Total for FAD1 by 130.87314826, giving 30110.89314826
2;2;4-TRIMETHYL-1;3-PENTANEDIOL MONOISOBUTYRATE (@2.96%) Increasing Total for FAD1 by 2955, giving 33065.89314826
ZINC OXIDE (@2.70%) Increasing Total for FAD1 by 2699.865, giving 35765.75814826
2-BUTOXY ETHANOL (@0.67%) Increasing Total for FAD3 by 0.0669397, giving 0.0669397
ALIPHATIC POLYURETHANE RESIN (@0.41%) Increasing Total for FAD1 by 407.29008, giving 36173.04822826
nonionic emulsifiers (@0.4%) Increasing Total for FAD1 by 400, giving 36573.04822826
acrylic copolymer (@0.38%) Increasing Total for FAD1 by 385, giving 36958.04822826
PROPYLENE GLYCOL (@0.31%) Increasing Total for FAD1 by 308, giving 37266.04822826
Poly(oxy-1,2-ethanediyl), α-sulfo-ω-(nonylphenoxy)-, branched, ammonium salt (@0.20%) Increasing Total for FAD3 by 0.10092, giving 0.1678597
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM DISTILLATES (@0.16%) Increasing Total for FAD1 by 1.6, giving 37267.64822826
NAPHTHA (@0.16%) Increasing Total for FAD1 by 160, giving 37427.64822826
QUARTZ (<10 microns) (@0.13%) Increasing Total for FAD6 by 0.0130878, giving 0.0130878
QUARTZ (<10 microns) (@0.13%) Increasing Total for FAD3 by 0.130878, giving 0.2987377
Ethanol, 2-amino-, compd. with .alpha.-sulfo-.omega.-(nonylphenoxy)poly(oxy-1,2-ethanediyl) (1:1) (@0.11%) Increasing Total for FAD1 by 112.14, giving 37539.78822826
SODIUM NITRITE (@0.10%) Increasing Total for FAD6 by 0.48, giving 0.4930878
SODIUM NITRITE (@0.10%) Increasing Total for FAD3 by 0.96, giving 1.2587377
ACRYLIC RESIN (@0.08%) Increasing Total for FAD1 by 82.9641, giving 37622.75232826
AMMONIUM HYDROXIDE (@0.06%) Increasing Total for FAD4 by 0.00178428571428571428571428571, giving 0.00178428571428571428571428571
AMMONIUM HYDROXIDE (@0.06%) Increasing Total for FAD3 by 0.01249, giving 1.2712277
AMMONIUM BENZOATE (@0.06%) Increasing Total for FAD3 by 0.06, giving 1.3312277

DIMETHYLAMINOETHANOL (@0.04%) Increasing Total for FAD3 by 0.0042, giving 1.3354277
DIMETHYLAMINOETHANOL (@0.04%) Increasing Total for FAD2 by 0.021, giving 0.021
hydrophobic silica (@0.04%) Increasing Total for FAD1 by 40, giving 37662.75232826
Emitter-green-benzofuranyls impurity (@0.04%) Increasing Total for FAD1 by 40, giving 37702.75232826
HYDROXYETHYL CELLULOSE (@0.02%) Increasing Total for FAD1 by 0.25, giving 37703.00232826
organically modified powdered clay (@0.02%) Increasing Total for FAD1 by 25, giving 37728.00232826
2;2;4-TRIMETHYL-1;3-PENTANEDIOL (@0.02%) Increasing Total for FAD1 by 15, giving 37743.00232826
2,2,4-Trimethyl-1,3-pentanediol diisobutyrate (@0.02%) Increasing Total for FAD1 by 0.15, giving 37743.15232826
ISOBUTYRALDEHYDE (@0.02%) Increasing Total for FAD1 by 15, giving 37758.15232826
N-BUTYL METHACRYLATE (@0.0099%) Increasing Total for FAD5 by 0.0099, giving 0.0099
surfactant (@0.00%) Increasing Total for FAD1 by 4.3359, giving 37762.48822826
ISOTHIAZOLONE SOLUTION (@0.00%) Increasing Total for FAD1 by 1.824396, giving 37764.31262426
Copper Nitrate (@0.00%) Increasing Total for FAD2 by 0.0005, giving 0.0215
METHACRYLIC ACID (@0.001045%) Increasing Total for FAD5 by 0.000209, giving 0.010109
METHACRYLIC ACID (@0.00%) Increasing Total for FAD3 by 0.001045, giving 1.3364727
METHYL METHACRYLATE (@0.001045%) Increasing Total for FAD5 by 0.000209, giving 0.010318
METHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.001045, giving 1.3375177
MANGANESE (@0.00%) Increasing Total for FAD2 by 0.00103116, giving 0.02253116
ETHYLENE GLYCOL (@0.00%) Increasing Total for FAD2 by 0.0000603, giving 0.02259146
ACRYLONITRILE (@0.00%) Increasing Total for FAD6 by 0.0054, giving 0.4984878
HEXAN-1-OL (@0.00%) Increasing Total for FAD3 by 0.00044676, giving 1.33796446
ETHYL ALCOHOL (@0.00%) Increasing Total for FAD1 by 0.4365, giving 37764.74912426
ZINC (@0.00%) Increasing Total for FAD1 by 0.00322568, giving 37764.75234994
COPPER (@0.00%) Increasing Total for FAD2 by 0.000106200666666666666666667, giving 0.022697660666666666666666667
2-ETHYLHEXANOIC ACID (@0.00%) Increasing Total for FAD3 by 0.00024276, giving 1.33820722
residual monomers (@0.00%) Increasing Total for FAD1 by 0.204, giving 37764.95634994
LEAD OXIDE (@0.00%) Increasing Total for FAD6 by 0.0000135, giving 0.4985013
LEAD OXIDE (@0.00%) Increasing Total for FAD3 by 0.00054, giving 1.33874722
antioxidant (@0.00%) Increasing Total for FAD1 by 0.09996, giving 37765.05630994
VANADIUM (@0.00%) Increasing Total for FAD1 by 0.044948, giving 37765.10125794
NICKEL (@0.00%) Increasing Total for FAD6 by 0.0000081964, giving 0.4985094964
NICKEL (@0.000040982%) Increasing Total for FAD5 by 0.00040982, giving 0.01072782
COBALT (@0.00%) Increasing Total for FAD6 by 0.00029084, giving 0.4988003364
ARSENIC (@0.00%) Increasing Total for FAD6 by 0.00005288, giving 0.4988532164
FORMALDEHYDE (@0.00%) Increasing Total for FAD6 by 0.00000999, giving 0.4988632064
FORMALDEHYDE (@0.00%) Increasing Total for FAD3 by 0.0000999, giving 1.33884712
BARIUM (@0.00%) Increasing Total for FAD1 by 0.009254, giving 37765.11051194
1,4-DIOXANE (@0.00%) Increasing Total for FAD6 by 0.0000003876, giving 0.4988635940
1,4-DIOXANE (@0.00%) Increasing Total for FAD3 by 0.00003876, giving 1.33888588
Figure-after-the-dash =3. Total of components with FAD=3 is >=1.
Low Boiling Liquid = False.
AMMONIUM HYDROXIDE (@0.06%) Total increased by 0.06*50/100=0.03. Running Total = 0.03
ISOBUTYRALDEHYDE (@0.02%) Total increased by 0.02*1000/100=0.15. Running Total = 0.18
ETHYL ALCOHOL (@0.00%) Total increased by 0.00*7/200=0.00. Running Total = 0.18
Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.22
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 : 0-3

MAL Number : 58.3011

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: 0-3
Application: 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.

- Coveralls must be worn.

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

- 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.

- Gas filter 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.