Audit - EU DK MAL Code

PPG VIKOTE 56 RED 6188

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 RED 6188 - Components considered for the MAL Code calculation. {Denmark MAL Code}

Hydrocarbons, C9, aromatics (42.6734%)

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 = 426.734

acrylic resin (29.274%)

CAS: SUB110964
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 = 29274

XYLENES (14.873169%)

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 = 1.487
FAD 1 Quotient = 74.366

C14-C17 CHLORINATED HYDROCARBONS (4.256%)

CAS: 85535-85-9
Density: 1.21
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: 0
FAD 1 Quotient = 4256

ETHYLBENZENE (3.97176032%)
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 = 0.397

C.I. PIGMENT RED 170 (2.01696522%)
CAS: 2786-76-7
Density: 1.408
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 = 20.170

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (0.9858%)
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: 1. (Default)
FAD 1 Quotient = 985.8

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (0.620864%)
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 = 6.209

cyclohexanone (0.316767%)
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 = 316.767
ETHYL ALCOHOL (0.3030380375%)
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 = 303.038
TITANIUM DIOXIDE (0.202351068%)
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 = 202.351
Diiron trioxide (0.1980004%)
CAS: 1309-37-1
Density: 5.25
Relative Density: 5.18
Molecular Weight: 159.69
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 = 1.980
TOLUENE (0.0756152%)
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 = 0.008
non-hazardous polymer (0.0742%)
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 = 74.2
BLOCKED COPOLYMER (0.0576%)
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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.576
1-METHOXY-2-PROPYL ACETATE (0.0239046702606%)
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 = 23.905
METHYL ALCOHOL (0.0159512124%)
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 = 0.016
N-BUTYL ACETATE (0.015634624%)
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 = 15.635
QUARTZ (>10 microns) (0.0128%)
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 = 0.128
ALUMINUM HYDROXIDE (0.0075124%)
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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.075
QUARTZ (<10 microns) (0.00633862375%)
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 = 0.006
2'-ethoxy-3-hydroxy-2-naphthanilide (0.00503478%)
CAS: 92-74-0
Density: 0.53
Molecular Weight: 307.34
Vapour Pressure: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
R Phrases: N;R50/53
MAL Factor from Sub-Annex 2: 0
FAD: 1. (Default)
FAD 1 Quotient = 5.035
acrylic copolymer (0.0048496%)
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 = 4.850
BENZENE (0.00281644%)
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 = 0.028
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.002232681%)
CAS: 63148-56-1
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 2.233
COPPER PHTALOCYANINE (0.00202030785%)
CAS: 147-14-8
Density: 1.62
Molecular Weight: 576.1
Vapour Pressure: 0.000072
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
BARIUM SULFATE (0.0019998%)
CAS: 7727-43-7
Density: 4.5
Molecular Weight: 233.4
Boiling Point: 1599.85
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 = 2.000
TITANIUM DIOXIDE (<10 microns) (0.001883852%)
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 = 1.884

TRIMETHYLOLPROPANE (0.00167288%)
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 = 0.017

SILICA (0.0015404%)
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 = 1.540

WATER (0.0010206783928%)
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

BLOCK COPOLYMER (0.001020032%)
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 = 1.020

ZIRCONIUM OXIDE (0.0006692%)
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 = 0.007

DIMETHYL GLUTARATE (0.0004055478%)
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 = 0.406
copper phthalocyanine derivative (0.00022275%)
CAS: SUB142534
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 = 0.223
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs. (0.000198%)
CAS: 68411-06-3
Density: 1.6
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-METHOXY-1-PROPYL ACETATE (0.0001560317%)
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
DIMETHYL SUCCINATE (0.0001388198%)
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 = 0.139
organotin compound (0.00012672%)
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 = 0.127

ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (0.0000975%)
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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.001

DIMETHYL ADIPATE (0.0000603169%)
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 = 0.001

METHYL METHACRYLATE (0.00004329134%)
Organic Solvent.
CAS: 80-62-6
Density: 0.94
Relative Density: 0.94
Molecular Weight: 100.13
Boiling Point: 100.36
Vapour Pressure: 27.75236
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

CUMENE (0.0000256%)
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

ALUMINUM SILICATE (0.00002462625%)
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: No limit specified. A very low value will be used.
FAD 1 Quotient = 0.000
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.00002077534%)
CAS: 7534-94-3
Density: 0.983
Molecular Weight: 222.33
Boiling Point: 275
Vapour Pressure: 0.009
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 (0.00002057616%)
Organic Solvent.
CAS: 97-88-1
Density: 0.89
Relative Density: 0.9
Molecular Weight: 142.22
Boiling Point: 163
Vapour Pressure: 1.59014
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 (0.000009660688%)
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 = 0.010
dodecyltrimethylammonium chloride (0.0000091575%)
CAS: 112-00-5
Density: 0
Molecular Weight: 263.95
No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 0.009

DENATONIUM BENZOATE (0.0000030305%)
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

2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.000001732%)
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

ACETIC ACID (0.000001230514%)
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

1-BUTANOL (0.000000823872%)
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 = 0.001

ACETONE (0.0000004785%)
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 = 0.000
OCTAMETHYLCYCLOTETRASILOXANE (0.000000319%)
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
BUTYLATED HYDROXYTOLUENE (0.000000312255%)
CAS: 128-37-0
Density: 1.03
Relative Density: 1.048
Molecular Weight: 220.39
Boiling Point: 265
Vapour Pressure: 0.00825
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 (0.00000020784%)
Organic Solvent.
CAS: 97-86-9
Density: 0.88
Relative Density: 0.8858
Molecular Weight: 142.22
Boiling Point: 155
Vapour Pressure: 1.58263
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
POLYCHLOROBIPHENYLS (0.000000022275%)

Carcinogen.
CAS: 1336-36-3
Density: 0
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor from OEL: 0
R Phrases: R33 N;R50/53
FAD: 1. (Default)
FAD 1 Quotient = 0.000
TIN (0.0000000215776%)
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
N,N-Dimethyl-1-Aminododecane (0.000000012375%)
CAS: 112-18-5
Density: 0.778
Molecular Weight: 213.46
Boiling Point: 260
Vapour Pressure: 0.00017
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 4 Quotient = 0.000
4-METHOXYPHENOL (0.00000000866%)
CAS: 150-76-5
Density: 1.6
Relative Density: 1.55
Molecular Weight: 124.15
Boiling Point: 243
Vapour Pressure: 0.00675
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 = 0.967. Entered value.
Figure-before-the dash = 5
Hydrocarbons, C9, aromatics (@42.67%). MAL Factor = 58. Total increased by 42.67*58=2475.06. Running Total = 2475.06
XYLENES(@14.87%). MAL Factor = 46. Total increased by 14.87*46=684.17. Running Total = 3159.22
C14-C17 CHLORINATED HYDROCARBONS(@4.26%). MAL Factor = 0. Total increased by 4.26*0=0. Running Total = 3159.22
ETHYLBENZENE(@3.97%). MAL Factor = 46. Total increased by 3.97*46=182.70. Running Total = 3341.92
C.I. PIGMENT RED 170(@2.02%). MAL Factor = 0. Total increased by 2.02*0=0. Running Total = 3341.92
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine(@0.99%). MAL Factor = 0. Total increased by 0.99*0=0.00.

Running Total = 3341.92

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE(@0.62%). MAL Factor = 0. Total increased by 0.62*0=0. Running Total = 3341.92

cyclohexanone(@0.32%). MAL Factor = 70. Total increased by 0.32*70=22.17. Running Total = 3364.10

ETHYL ALCOHOL(@0.30%). MAL Factor = 7. Total increased by 0.30*7=2.12. Running Total = 3366.22

TITANIUM DIOXIDE(@0.20%). MAL Factor = 0. Total increased by 0.20*0=0. Running Total = 3366.22

Diiron trioxide (@0.20%). MAL Factor = 0. Total increased by 0.20*0=0. Running Total = 3366.22

TOLUENE(@0.08%). MAL Factor = 74. Total increased by 0.08*74=5.60. Running Total = 3371.81

BLOCKED COPOLYMER(@0.06%). MAL Factor = 0. Total increased by 0.06*0=0. Running Total = 3371.81

1-METHOXY-2-PROPYL ACETATE(@0.02%). MAL Factor = 19. Total increased by 0.02*19=0.45. Running Total = 3372.27

METHYL ALCOHOL(@0.02%). MAL Factor = 54. Total increased by 0.02*54=0.86. Running Total = 3373.13

N-BUTYL ACETATE(@0.02%). MAL Factor = 14. Total increased by 0.02*14=0.22. Running Total = 3373.35

QUARTZ (>10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3373.35

ALUMINUM HYDROXIDE(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3373.35

QUARTZ (<10 microns)(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0. Running Total = 3373.35

2'-ethoxy-3-hydroxy-2-naphthanilide(@0.01%). MAL Factor = 0. Total increased by 0.01*0=0.00. Running Total = 3373.35

BENZENE(@0.00%). MAL Factor = 880. Total increased by 0.00*880=2.48. Running Total = 3375.83

COPPER PHTALOCYANINE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

BARIUM SULFATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

TITANIUM DIOXIDE (<10 microns)(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

TRIMETHYLOLPROPANE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

SILICA(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

WATER(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

ZIRCONIUM OXIDE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

DIMETHYL GLUTARATE(@0.00%). MAL Factor = 4. Total increased by 0.00*4=0.00. Running Total = 3375.83

copper phthalocyanine derivative(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3375.83

Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs.(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.83

2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by 0.00*181=0.03. Running Total = 3375.86

DIMETHYL SUCCINATE(@0.00%). MAL Factor = 5. Total increased by 0.00*5=0.00. Running Total = 3375.86

organotin compound(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3375.86

ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

DIMETHYL ADIPATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

METHYL METHACRYLATE(@0.00%). MAL Factor = 46. Total increased by 0.00*46=0.00. Running Total = 3375.86

CUMENE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3375.86

ALUMINUM SILICATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

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 = 3375.86

N-BUTYL METHACRYLATE(@0.00%). MAL Factor = 16. Total increased by 0.00*16=0.00. Running Total = 3375.86

PROPYLENE GLYCOL MONOMETHYL ETHER(@0.00%). MAL Factor = 28. Total increased by 0.00*28=0.00. Running Total = 3375.86

2-TERT-BUTYLAMINOETHYL METHACRYLATE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

ACETIC ACID(@0.00%). MAL Factor = 400. Total increased by 0.00*400=0.00. Running Total = 3375.86

1-BUTANOL(@0.00%). MAL Factor = 67. Total increased by 0.00*67=0.00. Running Total = 3375.86

ACETONE(@0.00%). MAL Factor = 23. Total increased by 0.00*23=0.00. Running Total = 3375.86

OCTAMETHYLCYCLOTETRASILOXANE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3375.86

BUTYLATED HYDROXYTOLUENE(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

ISOBUTYL METHACRYLATE(@0.00%). MAL Factor = 1. Total increased by 0.00*1=0.00. Running Total = 3375.86

POLYCHLOROBIPHENYLS(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3375.86

TIN(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0.00. Running Total = 3375.86

N,N-Dimethyl-1-Aminododecane(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86

4-METHOXYPHENOL(@0.00%). MAL Factor = 0. Total increased by 0.00*0=0. Running Total = 3375.86
Figure-before-the-dash calculated as 5. Via MAL Factor Total * Density (3375.86 * 0.967) giving a MAL Number of 3264
MAL Number = Density (0.967) * Sum (3375.86) = 3264
Figure-after-the-dash = 3. Calculated from component data.
Hydrocarbons, C9, aromatics (@42.67%) Increasing Total for FAD1 by 426.734, giving 426.734
acrylic resin (@29.27%) Increasing Total for FAD1 by 29274, giving 29700.734
XYLENES (@14.87%) Increasing Total for FAD3 by 1.4873169, giving 1.4873169
XYLENES (@14.87%) Increasing Total for FAD1 by 74.365845, giving 29775.099845
C14-C17 CHLORINATED HYDROCARBONS (@4.26%) Increasing Total for FAD1 by 4256, giving 34031.099845
ETHYLBENZENE (@3.97%) Increasing Total for FAD3 by 0.397176032, giving 1.884492932
C.I. PIGMENT RED 170 (@2.02%) Increasing Total for FAD1 by 20.1696522, giving 34051.2694972
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (@0.99%) Increasing Total for FAD1 by 985.8, giving 35037.0694972
QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (@0.62%) Increasing Total for FAD1 by 6.20864, giving 35043.2781372
cyclohexanone (@0.32%) Increasing Total for FAD1 by 316.767, giving 35360.0451372
ETHYL ALCOHOL (@0.30%) Increasing Total for FAD1 by 303.0380375, giving 35663.0831747
TITANIUM DIOXIDE (@0.20%) Increasing Total for FAD1 by 202.351068, giving 35865.4342427
Diiron trioxide (@0.20%) Increasing Total for FAD1 by 1.980004, giving 35867.4142467
TOLUENE (@0.08%) Increasing Total for FAD3 by 0.00756152, giving 1.892054452
non-hazardous polymer (@0.07%) Increasing Total for FAD1 by 74.2, giving 35941.6142467
BLOCKED COPOLYMER (@0.06%) Increasing Total for FAD1 by 0.576, giving 35942.1902467
1-METHOXY-2-PROPYL ACETATE (@0.02%) Increasing Total for FAD1 by 23.9046702606, giving 35966.0949169606
METHYL ALCOHOL (@0.02%) Increasing Total for FAD6 by 0.00079756062, giving 0.00079756062
METHYL ALCOHOL (@0.02%) Increasing Total for FAD3 by 0.0159512124, giving 1.9080056644
N-BUTYL ACETATE (@0.02%) Increasing Total for FAD1 by 15.634624, giving 35981.7295409606
QUARTZ (>10 microns) (@0.01%) Increasing Total for FAD1 by 0.128, giving 35981.8575409606
ALUMINUM HYDROXIDE (@0.01%) Increasing Total for FAD1 by 0.075124, giving 35981.9326649606
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD6 by 0.000633862375, giving 0.001431422995
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD3 by 0.00633862375, giving 1.91434428815
2'-ethoxy-3-hydroxy-2-naphthanilide (@0.01%) Increasing Total for FAD1 by 5.03478, giving 35986.9674449606
acrylic copolymer (@0.00%) Increasing Total for FAD1 by 4.8496, giving 35991.8170449606
BENZENE (@0.00%) Increasing Total for FAD6 by 0.0281644, giving 0.029595822995
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (@0.00%) Increasing Total for FAD1 by 2.232681, giving 35994.0497259606
COPPER PHTALOCYANINE (@0.00%) Increasing Total for FAD2 by 0.00067343595, giving 0.00067343595
BARIUM SULFATE (@0.00%) Increasing Total for FAD1 by 1.9998, giving 35996.0495259606
TITANIUM DIOXIDE (<10 microns) (@0.00%) Increasing Total for FAD1 by 1.883852, giving 35997.9333779606
TRIMETHYLOLPROPANE (@0.00%) Increasing Total for FAD1 by 0.0167288, giving 35997.9501067606
SILICA (@0.00%) Increasing Total for FAD1 by 1.5404, giving 35999.4905067606
BLOCK COPOLYMER (@0.00%) Increasing Total for FAD1 by 1.020032, giving 36000.5105387606
ZIRCONIUM OXIDE (@0.00%) Increasing Total for FAD1 by 0.006692, giving 36000.5172307606
DIMETHYL GLUTARATE (@0.00%) Increasing Total for FAD1 by 0.4055478, giving 36000.9227785606
copper phthalocyanine derivative (@0.00%) Increasing Total for FAD1 by 0.22275, giving 36001.1455285606
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs. (@0.00%) Increasing Total for FAD2 by 0.000066, giving 0.00073943595
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.0007801585, giving 0.030375981495
DIMETHYL SUCCINATE (@0.00%) Increasing Total for FAD1 by 0.1388198, giving 36001.2843483606
organotin compound (@0.00%) Increasing Total for FAD1 by 0.12672, giving 36001.4110683606
ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (@0.00%) Increasing Total for FAD1 by 0.000975, giving 36001.4120433606

DIMETHYL ADIPATE (@0.00%) Increasing Total for FAD1 by 0.000603169, giving 36001.4126465296
METHYL METHACRYLATE (@0.00004329134%) Increasing Total for FAD5 by 0.000008658268, giving 0.000008658268
METHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00004329134, giving 1.91438757949
CUMENE (@0.00%) Increasing Total for FAD3 by 0.0000256, giving 1.91441317949
ALUMINUM SILICATE (@0.00%) Increasing Total for FAD1 by 0.0002462625, giving 36001.4128927921
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00002077534%) Increasing Total for FAD5 by 0.000004155068, giving 0.000012813336
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00%) Increasing Total for FAD3 by 0.00002077534, giving 1.91443395483
N-BUTYL METHACRYLATE (@0.00002057616%) Increasing Total for FAD5 by 0.00002057616, giving 0.000033389496
PROPYLENE GLYCOL MONOMETHYL ETHER (@0.00%) Increasing Total for FAD1 by 0.009660688, giving 36001.4225534801
dodecyltrimethylammonium chloride (@0.00%) Increasing Total for FAD1 by 0.0091575, giving 36001.4317109801
DENATONIUM BENZOATE (@0.00%) Increasing Total for FAD1 by 0.0030305, giving 36001.4347414801
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.000001732%) Increasing Total for FAD5 by 0.0000003464, giving 0.000033735896
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000001732, giving 1.91443568683
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.00000004922056, giving 0.00000004922056
ACETIC ACID (@0.00%) Increasing Total for FAD3 by 0.0000001230514, giving 1.9144358098814
1-BUTANOL (@0.00%) Increasing Total for FAD1 by 0.000823872, giving 36001.4355653521
ACETONE (@0.00%) Increasing Total for FAD1 by 0.0004785, giving 36001.4360438521
OCTAMETHYLCYCLOTETRASILOXANE (@0.00%) Increasing Total for FAD3 by 0.000000319, giving 1.9144361288814
BUTYLATED HYDROXYTOLUENE (@0.00%) Increasing Total for FAD3 by 0.0000000312255, giving 1.9144361601069
ISOBUTYL METHACRYLATE (@0.00000020784%) Increasing Total for FAD5 by 0.000000041568, giving 0.000033777464
ISOBUTYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.00000020784, giving 1.9144363679469
POLYCHLOROBIPHENYLS (@0.00%) Increasing Total for FAD1 by 0.000022275, giving 36001.4360661271
TIN (@0.00%) Increasing Total for FAD1 by 0.0000215776, giving 36001.4360877047
N,N-Dimethyl-1-Aminododecane (@0.00%) Increasing Total for FAD4 by 0.000000012375, giving 0.00000006159556
4-METHOXYPHENOL (@0.00000000866%) Increasing Total for FAD5 by 0.00000000866, giving 0.000033786124
Figure-after-the-dash =3. Total of components with FAD=3 is >=1.
Low Boiling Liquid = False.
ETHYL ALCOHOL (@0.30%) Total increased by 0.30*7/200=0.01. Running Total = 0.01
METHYL ALCOHOL (@0.02%) Total increased by 0.02*54/100=0.01. Running Total = 0.02
ACETONE (@0.00%) Total increased by 0.00*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 : 3264.46

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.