

Audit - EU DK MAL Code

PPG VIKOTE 56 ORANGE 3149

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 4-3

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

Product is a Liquid

PPG VIKOTE 56 ORANGE 3149 - Components considered for the MAL Code calculation. {Denmark MAL Code}

Hydrocarbons, C9, aromatics (35.142%)

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 = 351.42

2-propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (31.436219446%)

CAS: 28262-63-7

Density: 0

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 31436.219

XYLENES (14.7552493%)

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 = 1.476

FAD 1 Quotient = 73.776

C14-C17 CHLORINATED HYDROCARBONS (4.039%)

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 = 4039

IRON HYDROXIDE OXIDE (3.50101591%)

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: 0.1

FAD 1 Quotient = 35.010

ETHYLBENZENE (2.629756%)

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 = 0.263

Bismuth vanadate (>10 microns) (2.40174644%)

CAS: 14059-33-7

Density: 6.1

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 2401.746

UNSUBSTITUTED DI-PYRROLOPYRROL (2.323%)

CAS: 54660-00-3

Density: 0

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 2323

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (0.4996015%)

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 = 4.996

BARIUM SULFATE (0.4566%)

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 = 456.6

cyclohexanone (0.452808%)

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 = 452.808

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine (0.4284%)

CAS: 911674-82-3

Density: 1.02

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

MAL Factor from OEL: 0

R Phrases: R43 R53

FAD: 1. (Default)

FAD 1 Quotient = 428.4

N-BUTYL METHACRYLATE (0.318313809%)

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 = 0.318

ETHYL ALCOHOL (0.232218%)

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

LB�Factor = 200 (CAS=64175)

MAL Factor entered: 7. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 232.218
ACRYLIC POLYMER (0.192666%)
CAS: 9003-01-4
Density: 0
Molecular Weight: 168.06
No LBL Factor entered or estimated from CAS Number or Boiling Point.
No MAL Factor calculated.
FAD: 1. (Default)
FAD 1 Quotient = 192.666
POLYAMIDE WAX (0.1836%)
CAS: SUB101889
Density: 1.1
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: 0.1
FAD 1 Quotient = 1.836
1-METHOXY-2-PROPYL ACETATE (0.145500662122%)
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 = 145.501
SODIUM SULPHATE (0.128445225%)
CAS: 7757-82-6
Density: 2.67
Relative Density: 2.7
Molecular Weight: 142.04
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 = 1.284
ZINC ORTHOPHOSPHATE (0.12176%)
CAS: 7779-90-0
Density: 3.26
Molecular Weight: 386.05
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 0. Limit: 0
FAD entered: 1; Lower Limit: 0
FAD 1 Quotient = 121.76
BLOCKED COPOLYMER (0.117874062%)
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 = 1.179

C.I. PIGMENT RED 170 (0.11657300864%)

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 = 1.166

acrylic copolymer (0.09779%)

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 = 97.79

TOLUENE (0.06983688%)

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 = 0.007

CALCIUM MOLYBDATE (0.06088%)

CAS: 7789-82-4

Density: 4.4

Molecular Weight: 200.02

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 = 0.304

METHYL METHACRYLATE (0.036644604375%)

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 = 0.007

FAD 3 Quotient = 0.037

N-BUTYL ACETATE (0.032932764%)

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 = 32.933

WATER (0.012253250786%)

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

ALUMINUM POWDER (0.010539%)

CAS: 7429-90-5

Density: 2.702

Relative Density: 2.7

Molecular Weight: 26.98

Boiling Point: 2450

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

MAL Factor entered: 0. Limit: 0

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

FAD 1 Quotient = 0.105

QUARTZ (>10 microns) (0.0103%)

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 = 0.103

BLOCK COPOLYMER (0.00843284%)

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 = 8.433

DIMETHYL GLUTARATE (0.00817768875%)

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 = 8.178

ISOPROPYL ALCOHOL (0.00756%)

Organic Solvent.

CAS: 67-63-0

Density: 0.785

Relative Density: 0.79

Molecular Weight: 60.11

Boiling Point: 83

Vapour Pressure: 33

LB�Factor = 200 (CAS=67630)

MAL Factor entered: 29. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 7.56

QUARTZ (<10 microns) (0.0050985%)

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 = 0.005

Siloxanes (0.003191544%)

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 = 3.192

Bismuth vanadate (<10 microns) (0.00301356%)

CAS: 14059-33-7

Density: 6.1

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

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 3.014

DIMETHYL SUCCINATE (0.00279923875%)

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 = 2.799

BENZENE (0.002618883%)

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 = 0.026

CHROMIUM (0.0014052%)

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

DIMETHYL ADIPATE (0.001216263125%)

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 = 0.012

CUMENE (0.0008908%)

Organic Solvent.

CAS: 98-82-8

Density: 0.86

Relative Density: 0.9

Molecular Weight: 120.21

Boiling Point: 152

Vapour Pressure: 3.72

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 = 0.001

2-METHOXY-1-PROPYL ACETATE (0.0006241465%)

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 = 0.003

NICKEL (0.00052695%)

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 = 0.005

FAD 6 Quotient = 0.000

2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.000418925375%)

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

2'-ethoxy-3-hydroxy-2-naphthanilide (0.00029099136%)

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 = 0.291

PROPYLENE GLYCOL MONOMETHYL ETHER (0.00010063556%)

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 = 0.101

2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.000034925%)

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

organotin compound (0.000025938%)

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 = 0.026

METHYL ALCOHOL (0.0000244475%)

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

ACETIC ACID (0.000007774705%)

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

1-BUTANOL (0.00000681114%)

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 = 0.007

ISOBUTYL METHACRYLATE (0.000004191%)

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

BUTYLATED HYDROXYTOLUENE (0.0000033603%)

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

CALCIUM SULFATE (0.000001225%)

CAS: 7778-18-9
Density: 2.9
Relative Density: 2.96
Molecular Weight: 136.14

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

GRAPHITE (0.00000049%)

CAS: 7782-42-5
Density: 2.2
Relative Density: 2.16
Molecular Weight: 12.01

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 1 Quotient = 0.000

OCTAMETHYLCYCLOTETRAILOXANE (0.000000456%)

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

TIN (0.000000178387%)

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 (0.000000174625%)

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 = 1.025. Entered value.

Figure-before-the dash = 4

Hydrocarbons, C9, aromatics (@35.14%). MAL Factor = 58. Total increased by $35.14 \times 58 = 2038.24$. Running Total = 2038.24

XYLENES(@14.76%). MAL Factor = 46. Total increased by $14.76 \times 46 = 678.74$. Running Total = 2716.98

C14-C17 CHLORINATED HYDROCARBONS(@4.04%). MAL Factor = 0. Total increased by $4.04 \times 0 = 0$. Running Total = 2716.98

IRON HYDROXIDE OXIDE(@3.50%). MAL Factor = 0. Total increased by $3.50 \times 0 = 0$. Running Total = 2716.98

ETHYLBENZENE(@2.63%). MAL Factor = 46. Total increased by $2.63 \times 46 = 120.97$. Running Total = 2837.95

QUATERN.AM.CPS.BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE(@0.50%). MAL Factor = 0. Total increased by $0.50 \times 0 = 0$. Running Total = 2837.95

BARIUM SULFATE(@0.46%). MAL Factor = 0. Total increased by $0.46 \times 0 = 0$. Running Total = 2837.95

cyclohexanone(@0.45%). MAL Factor = 70. Total increased by $0.45 \times 70 = 31.70$. Running Total = 2869.64

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine(@0.43%). MAL Factor = 0. Total increased by $0.43 \times 0 = 0.00$.

Running Total = 2869.64

N-BUTYL METHACRYLATE(@0.32%). MAL Factor = 16. Total increased by $0.32 \times 16 = 5.09$. Running Total = 2874.74

ETHYL ALCOHOL(@0.23%). MAL Factor = 7. Total increased by $0.23 \times 7 = 1.63$. Running Total = 2876.36

POLYAMIDE WAX(@0.18%). MAL Factor = 0. Total increased by $0.18 \times 0 = 0$. Running Total = 2876.36

1-METHOXY-2-PROPYL ACETATE(@0.15%). MAL Factor = 19. Total increased by $0.15 \times 19 = 2.76$. Running Total = 2879.13

SODIUM SULPHATE(@0.13%). MAL Factor = 0. Total increased by $0.13 \times 0 = 0$. Running Total = 2879.13

ZINC ORTHOPHOSPHATE(@0.12%). MAL Factor = 0. Total increased by $0.12 \times 0 = 0$. Running Total = 2879.13

BLOCKED COPOLYMER(@0.12%). MAL Factor = 0. Total increased by $0.12 \times 0 = 0$. Running Total = 2879.13

C.I. PIGMENT RED 170(@0.12%). MAL Factor = 0. Total increased by $0.12 \times 0 = 0$. Running Total = 2879.13

TOLUENE(@0.07%). MAL Factor = 74. Total increased by $0.07 \times 74 = 5.17$. Running Total = 2884.29

CALCIUM MOLYBDATE(@0.06%). MAL Factor = 0. Total increased by $0.06 \times 0 = 0$. Running Total = 2884.29

METHYL METHACRYLATE(@0.04%). MAL Factor = 46. Total increased by $0.04 \times 46 = 1.69$. Running Total = 2885.98

N-BUTYL ACETATE(@0.03%). MAL Factor = 14. Total increased by $0.03 \times 14 = 0.46$. Running Total = 2886.44

WATER(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 2886.44

ALUMINUM POWDER(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 2886.44

QUARTZ (>10 microns)(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 2886.44

DIMETHYL GLUTARATE(@0.01%). MAL Factor = 4. Total increased by $0.01 \times 4 = 0.03$. Running Total = 2886.47

ISOPROPYL ALCOHOL(@0.01%). MAL Factor = 29. Total increased by $0.01 \times 29 = 0.22$. Running Total = 2886.69

QUARTZ (<10 microns)(@0.01%). MAL Factor = 0. Total increased by $0.01 \times 0 = 0$. Running Total = 2886.69

DIMETHYL SUCCINATE(@0.00%). MAL Factor = 5. Total increased by $0.00 \times 5 = 0.01$. Running Total = 2886.71

BENZENE(@0.00%). MAL Factor = 880. Total increased by $0.00 \times 880 = 2.30$. Running Total = 2889.01

CHROMIUM(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 2889.01

DIMETHYL ADIPATE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 2889.01

CUMENE(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 2889.01

2-METHOXY-1-PROPYL ACETATE(@0.00%). MAL Factor = 181. Total increased by $0.00 \times 181 = 0.11$. Running Total = 2889.12

NICKEL(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 2889.12

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 $0.00 \times 0 = 0$. Running Total = 2889.12

2'-ethoxy-3-hydroxy-2-naphthanilide(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.12

PROPYLENE GLYCOL MONOMETHYL ETHER(@0.00%). MAL Factor = 28. Total increased by $0.00 \times 28 = 0.00$. Running Total = 2889.13

2-TERT-BUTYLAMINOETHYL METHACRYLATE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0$. Running Total = 2889.13

organotin compound(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
METHYL ALCOHOL(@0.00%). MAL Factor = 54. Total increased by $0.00 \times 54 = 0.00$. Running Total = 2889.13
ACETIC ACID(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 2889.13
1-BUTANOL(@0.00%). MAL Factor = 67. Total increased by $0.00 \times 67 = 0.00$. Running Total = 2889.13
ISOBUTYL METHACRYLATE(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 2889.13
BUTYLATED HYDROXYTOLUENE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
CALCIUM SULFATE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
GRAPHITE(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
OCTAMETHYLCYCLOTETRAISILOXANE(@0.00%). MAL Factor = 1. Total increased by $0.00 \times 1 = 0.00$. Running Total = 2889.13
TIN(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
4-METHOXYPHENOL(@0.00%). MAL Factor = 0. Total increased by $0.00 \times 0 = 0.00$. Running Total = 2889.13
Figure-before-the-dash calculated as 4. Via MAL Factor Total * Density (2889.13 * 1.025) giving a MAL Number of 2961

MAL Number = Density (1.025) * Sum (2889.13) = 2961

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

Hydrocarbons, C9, aromatics (@35.14%) Increasing Total for FAD1 by 351.42, giving 351.42

2-propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (@31.44%) Increasing Total for FAD1 by 31436.219446, giving 31787.639446

XYLENES (@14.76%) Increasing Total for FAD3 by 1.47552493, giving 1.47552493

XYLENES (@14.76%) Increasing Total for FAD1 by 73.7762465, giving 31861.4156925

C14-C17 CHLORINATED HYDROCARBONS (@4.04%) Increasing Total for FAD1 by 4039, giving 35900.4156925

IRON HYDROXIDE OXIDE (@3.50%) Increasing Total for FAD1 by 35.0101591, giving 35935.4258516

ETHYLBENZENE (@2.63%) Increasing Total for FAD3 by 0.2629756, giving 1.73850053

Bismuth vanadate (>10 microns) (@2.40%) Increasing Total for FAD1 by 2401.74644, giving 38337.1722916

UNSUBSTITUTED DI-PYRROLOPYRROL (@2.32%) Increasing Total for FAD1 by 2323, giving 40660.1722916

QUATERN.AM.CPS.BIS(HYDROGEN.TALLOW ALKYL)DIMET.-,BENTONITE (@0.50%) Increasing Total for FAD1 by 4.996015, giving 40665.1683066

BARIUM SULFATE (@0.46%) Increasing Total for FAD1 by 456.6, giving 41121.7683066

cyclohexanone (@0.45%) Increasing Total for FAD1 by 452.808, giving 41574.5763066

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine (@0.43%) Increasing Total for FAD1 by 428.4, giving 42002.9763066

N-BUTYL METHACRYLATE (@0.318313809%) Increasing Total for FAD5 by 0.318313809, giving 0.318313809

ETHYL ALCOHOL (@0.23%) Increasing Total for FAD1 by 232.218, giving 42235.1943066

ACRYLIC POLYMER (@0.19%) Increasing Total for FAD1 by 192.666, giving 42427.8603066

POLYAMIDE WAX (@0.18%) Increasing Total for FAD1 by 1.836, giving 42429.6963066

1-METHOXY-2-PROPYL ACETATE (@0.15%) Increasing Total for FAD1 by 145.500662122, giving 42575.196968722

SODIUM SULPHATE (@0.13%) Increasing Total for FAD1 by 1.28445225, giving 42576.481420972

ZINC ORTHOPHOSPHATE (@0.12%) Increasing Total for FAD1 by 121.76, giving 42698.241420972

BLOCKED COPOLYMER (@0.12%) Increasing Total for FAD1 by 1.17874062, giving 42699.420161592

C.I. PIGMENT RED 170 (@0.12%) Increasing Total for FAD1 by 1.1657300864, giving 42700.5858916784

acrylic copolymer (@0.10%) Increasing Total for FAD1 by 97.79, giving 42798.3758916784

TOLUENE (@0.07%) Increasing Total for FAD3 by 0.006983688, giving 1.745484218

CALCIUM MOLYBDATE (@0.06%) Increasing Total for FAD1 by 0.3044, giving 42798.6802916784

METHYL METHACRYLATE (@0.036644604375%) Increasing Total for FAD5 by 0.007328920875, giving 0.325642729875

METHYL METHACRYLATE (@0.04%) Increasing Total for FAD3 by 0.036644604375, giving 1.782128822375

N-BUTYL ACETATE (@0.03%) Increasing Total for FAD1 by 32.932764, giving 42831.6130556784

ALUMINUM POWDER (@0.01%) Increasing Total for FAD1 by 0.10539, giving 42831.7184456784

QUARTZ (>10 microns) (@0.01%) Increasing Total for FAD1 by 0.103, giving 42831.8214456784

BLOCK COPOLYMER (@0.01%) Increasing Total for FAD1 by 8.43284, giving 42840.2542856784

DIMETHYL GLUTARATE (@0.01%) Increasing Total for FAD1 by 8.17768875, giving 42848.4319744284

ISOPROPYL ALCOHOL (@0.01%) Increasing Total for FAD1 by 7.56, giving 42855.9919744284
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD6 by 0.00050985, giving 0.00050985
QUARTZ (<10 microns) (@0.01%) Increasing Total for FAD3 by 0.0050985, giving 1.787227322375
Siloxanes (@0.00%) Increasing Total for FAD1 by 3.191544, giving 42859.1835184284
Bismuth vanadate (<10 microns) (@0.00%) Increasing Total for FAD1 by 3.01356, giving 42862.1970784284
DIMETHYL SUCCINATE (@0.00%) Increasing Total for FAD1 by 2.79923875, giving 42864.9963171784
BENZENE (@0.00%) Increasing Total for FAD6 by 0.02618883, giving 0.02669868
CHROMIUM (@0.00%) Increasing Total for FAD3 by 0.00014052, giving 1.787367842375
DIMETHYL ADIPATE (@0.00%) Increasing Total for FAD1 by 0.01216263125, giving 42865.00847980965
CUMENE (@0.00%) Increasing Total for FAD3 by 0.0008908, giving 1.788258642375
2-METHOXY-1-PROPYL ACETATE (@0.00%) Increasing Total for FAD6 by 0.0031207325, giving 0.0298194125
NICKEL (@0.00%) Increasing Total for FAD6 by 0.00010539, giving 0.0299248025
NICKEL (@0.00052695%) Increasing Total for FAD5 by 0.0052695, giving 0.330912229875
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.000418925375%) Increasing Total for FAD5 by 0.000083785075, giving 0.330996014950
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (@0.00%) Increasing Total for FAD3 by 0.000418925375, giving 1.788677567750
2'-ethoxy-3-hydroxy-2-naphthanilide (@0.00%) Increasing Total for FAD1 by 0.29099136, giving 42865.29947116965
PROPYLENE GLYCOL MONOMETHYL ETHER (@0.00%) Increasing Total for FAD1 by 0.10063556, giving 42865.40010672965
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.000034925%) Increasing Total for FAD5 by 0.000006985, giving 0.331002999950
2-TERT-BUTYLAMINOETHYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000034925, giving 1.788712492750
organotin compound (@0.00%) Increasing Total for FAD1 by 0.025938, giving 42865.42604472965
METHYL ALCOHOL (@0.00%) Increasing Total for FAD6 by 0.000001222375, giving 0.029926024875
METHYL ALCOHOL (@0.00%) Increasing Total for FAD3 by 0.0000244475, giving 1.788736940250
ACETIC ACID (@0.00%) Increasing Total for FAD4 by 0.0000003109882, giving 0.0000003109882
1-BUTANOL (@0.00%) Increasing Total for FAD1 by 0.00681114, giving 42865.43285586965
ISOBUTYL METHACRYLATE (@0.000004191%) Increasing Total for FAD5 by 0.0000008382, giving 0.331003838150
ISOBUTYL METHACRYLATE (@0.00%) Increasing Total for FAD3 by 0.000004191, giving 1.788741131250
BUTYLATED HYDROXYTOLUENE (@0.00%) Increasing Total for FAD3 by 0.00000033603, giving 1.788741467280
CALCIUM SULFATE (@0.00%) Increasing Total for FAD1 by 0.00001225, giving 42865.43286811965
GRAPHITE (@0.00%) Increasing Total for FAD1 by 0.0000049, giving 42865.43287301965
OCTAMETHYLCYCLOTETRAILOXANE (@0.00%) Increasing Total for FAD3 by 0.000000456, giving 1.788741923280
TIN (@0.00%) Increasing Total for FAD1 by 0.000178387, giving 42865.43305140665
4-METHOXYPHENOL (@0.000000174625%) Increasing Total for FAD5 by 0.000000174625, giving 0.331004012775
Figure-after-the-dash =3. Total of components with FAD=3 is >=1.

Low Boiling Liquid = False.

ETHYL ALCOHOL (@0.23%) Total increased by $0.23 \times 7 / 200 = 0.01$. Running Total = 0.01

ISOPROPYL ALCOHOL (@0.01%) Total increased by $0.01 \times 29 / 200 = 0.00$. Running Total = 0.01

METHYL ALCOHOL (@0.00%) Total increased by $0.00 \times 54 / 100 = 0.00$. Running Total = 0.01

Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.01

Recommended Usage Temperature is < 40C, hence no MAL Code in use is assigned.

Audit - RFU MAL Code

EU Denmark RFU MAL Code:-

Nothing was found

New Fields for IA3.3

MAL-code : 4-3
MAL Number : 2961.36
MAL Number (RFU) : Not applicable.

Protection based on MAL : According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

General: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 4-3

Application: When spraying in new* booths if the operator is outside 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 and eye protection 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.

- Air-supplied half mask, coveralls and eye protection 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.

- 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 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 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 : Not available.
MAL

Not available.

Not available.