

Audit - EU DK MAL Code

PPG VIKOTE 56 LF YELLOW 3138

	Product as is	Ready-for-use mixture
MAL Code	4-3	Not applicable.
MAL Protection	<p>According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</p> <p>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.</p> <p>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.</p>	Not applicable.
	<p>MAL-code: 4-3</p> <p>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.</p> <ul style="list-style-type: none">- Air-supplied half mask and eye protection must be worn. <p>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.</p> <ul style="list-style-type: none">- Air-supplied half mask, coveralls and eye protection must be worn. <p>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.</p> <ul style="list-style-type: none">- Air-supplied full mask and coveralls must be worn. <p>When spraying in existing* spray booths, if the operator is outside the spray zone.</p> <ul style="list-style-type: none">- Air-supplied full mask, arm protectors and apron must be worn. <p>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.</p> <ul style="list-style-type: none">- Air-supplied full mask must be worn. <p>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.</p>	Not applicable.

- Air-supplied full mask, coveralls and hood must be worn.

Not applicable.

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.

Low Boiling Liquid Not applicable. Not applicable.

MAL Number 3054.8 Not applicable.

Audit (Textual)  Figure-before-dash (from MAL Number) = 4

1600 < MAL Number [3054.8] ≤ 3200

MAL Number = density * \sum [Conc(i) * MAL Factor(i)] = 1.026 * 2977.4 = 3054.8

Density (from Density (g/m³) data entry) = 1.026

\sum [Conc(i) * MAL Factor(i)] = 2977.4

[Hydrocarbons, C9, aromatics] Conc * MAL Factor = 26.93% * 58 = 1561.8

MAL Factor entered against range: '>0' = 58

[XYLEMES] Conc * MAL Factor = 15.87% * 46 = 730.0

MAL Factor entered against range: '>0' = 46

[SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC] Conc * MAL Factor = 8.320% * 58 = 482.6

MAL Factor entered against range: '>0' = 58

[ETHYLBENZENE] Conc * MAL Factor = 3.620% * 46 = 166.5

MAL Factor entered against range: '>0' = 46

[cyclohexanone] Conc * MAL Factor = 0.4468% * 70 = 31.28

MAL Factor entered against range: '>0' = 70

[ETHYL ALCOHOL] Conc * MAL Factor = 0.3325% * 7 = 2.327

MAL Factor entered against range: '>0' = 7

[1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.03233% * 19 = 0.6143

MAL Factor entered against range: '>0' = 19

[N-BUTYL ACETATE] Conc * MAL Factor = 0.02952% * 14 = 0.4132

MAL Factor entered against range: '>0' = 14

[METHYL ALCOHOL] Conc * MAL Factor = 0.01750% * 54 = 0.9450

MAL Factor entered against range: '>0' = 54

[CUMENE] Conc * MAL Factor = 0.00075% * 1000 = 0.75

MAL Factor entered against range: '>0' = 1000

[toluene] Conc * MAL Factor = 0.0006225% * 74 = 0.04606

MAL Factor entered against range: '>0' = 74

[2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.0002506% * 181 = 0.04536

MAL Factor entered against range: '>0' = 181

[1-BUTANOL] Conc * MAL Factor = 0.0002476% * 67 = 0.01659

MAL Factor entered against range: '>0' = 67

[DIMETHYL GLUTARATE] Conc * MAL Factor = 0.00006082% * 4 = 0.0002433

MAL Factor entered against range: '>0' = 4

[DIMETHYL SUCCINATE] Conc * MAL Factor = 0.00002082% * 5 = 0.0001041

MAL Factor entered against range: '>0' = 5

[BENZENE] Conc * MAL Factor = 0.0000075% * 880 = 0.0066

MAL Factor entered against range: '>0' = 880

[METHYL METHACRYLATE] Conc * MAL Factor = 0.000006493% * 46 = 0.0002987

MAL Factor entered against range: '>0' = 46

[N-BUTYL METHACRYLATE] Conc * MAL Factor = 0.000003086% * 16 = 0.00004937

MAL Factor entered against range: '>0' = 16
[PROPYLENE GLYCOL MONOMETHYL ETHER] Conc * MAL Factor = 0.0000005711% * 28 = 0.00001599
MAL Factor entered against range: '>0' = 28
[ACETIC ACID] Conc * MAL Factor = 0.0000005696% * 400 = 0.0002278
MAL Factor entered against range: '>0' = 400
[ACETONE] Conc * MAL Factor = 0.000000525% * 23 = 0.00001208
MAL Factor entered against range: '>0' = 23
[ISOBUTYL METHACRYLATE] Conc * MAL Factor = 0.00000003117% * 1000 = 0.00003117
MAL Factor entered against range: '>0' = 1000
Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}
ACRYLIC RESIN (27.74%)
MAL Factor entered against range: '>0' = 0
MONOAZO PIGMENT OF THE BENZIMIDAZOLONE RANGE (7.96%)
MAL Factor entered against range: '>0' = 0
PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED (4.1%)
MAL Factor entered against range: '>0' = 0
TITANIUM DIOXIDE (2.885%)
MAL Factor entered against range: '>0' = 0
QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.,,BENTONITE (0.9216%)
MAL Factor entered against range: '>0' = 0
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (0.4%)
MAL Factor entered against range: '>0' = 0
modified polyurethane (0.1125%)
Default assumption [non-volatile] = 0
ALUMINUM HYDROXIDE (0.1085%)
MAL Factor entered against range: '>0' = 0
WATER (0.05551%)
MAL Factor entered against range: '>0' = 0
TRIMETHYLOLPROPANE (0.031%)
MAL Factor entered against range: '>0' = 0
TITANIUM DIOXIDE (<10 microns) (0.02891%)
MAL Factor entered against range: '>0' = 0
SILICA (0.0217%)
MAL Factor entered against range: '>0' = 0
QUARTZ (>10 microns) (0.019%)
MAL Factor entered against range: '>0' = 0
QUARTZ (<10 microns) (0.009405%)
MAL Factor entered against range: '>0' = 0
ZIRCONIUM OXIDE (0.0093%)
MAL Factor entered against range: '>0' = 0
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.003150%)
Default assumption [non-volatile] = 0
acrylic copolymer (0.0007273%)
Default assumption [non-volatile] = 0
COPPER PHTHALO GREEN (0.0002717%)
MAL Factor entered against range: '>0' = 0
BLOCK COPOLYMER (0.00006494%)
Default assumption [non-volatile] = 0
CARBON BLACK (0.000056%)
MAL Factor entered against range: '>0' = 0
dibutyltin dilaurate (0.0000225%)
MAL Factor entered against range: '>0' = 0
organotin compound (0.0000225%)
From US (ACGIH) OELs: Product is assumed to be non-volatile, due to an OEL in mg/m³ being available, and no ppm OEL being available] = 0
Available value in mg/m³ = 0.1
DIMETHYL ADIPATE (0.000009046%)
MAL Factor entered against range: '>0' = 0
CALCIUM CARBONATE (0.000005544%)
MAL Factor entered against range: '>0' = 0
DENATONIUM BENZOATE (0.000003325%)
Default assumption [non-volatile] = 0
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.000003116%)
MAL Factor entered against range: '>0' = 0
OCTAMETHYLCYCLOTETRASILOXANE (0.00000045%)
MAL Factor entered against range: '>0' = 0
2-tert-butylaminoethyl methacrylate (0.0000002598%)
Default assumption [non-volatile] = 0
BUTYLATED HYDROXYTOLUENE (0.00000001823%)

MAL Factor entered against range: '>0' = 0

TIN (0.00000001374%)

From US (ACGIH) OELs: Product is assumed to be non-volatile, due to an OEL in mg/m³ being available, and no ppm OEL being available] = 0

Available value in mg/m³ = 2

4-METHOXYPHENOL (0.00000001299%)

MAL Factor entered against range: '>0' = 0

Figure-after-dash (Ingredient(s) above the cut-off on their own) = 3

Ingredients above the Figure-after-dash 3 concentration limit on their own {Denmark MAL Code}

XYLENES (15.87%)

Ingredient concentration is above the limit [10%]

Stricter figure-after-dash numbers that are not available because Σ [ing conc / ing limit] < 1

Figure-after-dash 6 calculated ratio: Σ [ing conc / ing limit] = 0.00316835396433

METHYL ALCOHOL: Ing conc / Ing limit = 0.01750 / 20 = 0.0008750

Minimum value of concentration limit associated with figure-after-dash 6 = 20

QUARTZ (<10 microns): Ing conc / Ing limit = 0.009405 / 10 = 0.0009405

Minimum value of concentration limit associated with figure-after-dash 6 = 10

2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.0002506 / 0.2 = 0.001253

Minimum value of concentration limit associated with figure-after-dash 6 = 0.2

CARBON BLACK: Ing conc / Ing limit = 0.000056 / 25 = 0.00000224

Minimum value of concentration limit associated with figure-after-dash 6 = 25

dibutyltin dilaurate: Ing conc / Ing limit = 0.0000225 / 1 = 0.0000225

Minimum value of concentration limit associated with figure-after-dash 6 = 1

BENZENE: Ing conc / Ing limit = 0.0000075 / 0.1 = 0.0000075

Minimum value of concentration limit associated with figure-after-dash 6 = 0.1

Figure-after-dash 5 calculated ratio: Σ [ing conc / ing limit] = 0.000005274905706

METHYL METHACRYLATE: Ing conc / Ing limit = 0.000006493 / 5 = 0.000001299

Minimum value of concentration limit associated with figure-after-dash 5 = 5

2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-: Ing conc / Ing limit = 0.000003116 / 5 = 0.0000006232

Minimum value of concentration limit associated with figure-after-dash 5 = 5

N-BUTYL METHACRYLATE: Ing conc / Ing limit = 0.000003086 / 1 = 0.000003086

Minimum value of concentration limit associated with figure-after-dash 5 = 1

2-tert-butylaminoethyl methacrylate: Ing conc / Ing limit = 0.0000002598 / 1 = 0.0000002598

Minimum value of concentration limit associated with figure-after-dash 5 = 1

Figure-after-dash (CLP hazard) = 5

GHS Status - EU

Skin sensitization - Category 1B - From 'Entered data'

Entered data - [EU] [99] [User]

ISOBUTYL METHACRYLATE: Ing conc / Ing limit = 0.00000003117 / 5 = 0.000000006234

Minimum value of concentration limit associated with figure-after-dash 5 = 5

4-METHOXYPHENOL: Ing conc / Ing limit = 0.00000001299 / 1 = 0.000000001299

Minimum value of concentration limit associated with figure-after-dash 5 = 1

Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.00000022783374

ACETIC ACID: Ing conc / Ing limit = 0.0000005696 / 25 = 0.00000002278

Minimum value of concentration limit associated with figure-after-dash 4 = 25