

Audit - EU DK MAL Code

PPG VIKOTE 56 REDBROWN

	Product as is	Ready-for-use mixture
MAL Code MAL Protection	<p data-bbox="309 279 358 311">5-3</p> <p data-bbox="309 319 1814 383">According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</p> <p data-bbox="309 414 1814 542">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 data-bbox="309 566 1814 630">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> <p data-bbox="309 710 492 742">MAL-code: 5-3</p> <p data-bbox="309 742 1814 837">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.</p> <p data-bbox="309 861 761 893">- Air-supplied full mask must be worn.</p> <p data-bbox="309 925 1814 1021">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.</p> <p data-bbox="309 1045 918 1077">- Air-supplied full mask and coveralls must be worn.</p> <p data-bbox="309 1109 1265 1141">When spraying in existing* spray booths, if the operator is outside the spray zone.</p> <p data-bbox="309 1165 1064 1197">- Air-supplied full mask, arm protectors and apron must be worn.</p> <p data-bbox="309 1228 1814 1292">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> <p data-bbox="309 1316 996 1348">- Air-supplied full mask, coveralls and hood must be worn.</p>	<p data-bbox="1877 279 2060 311"><input type="checkbox"/> Not applicable.</p> <p data-bbox="1877 319 2060 351"><input checked="" type="checkbox"/> Not applicable.</p> <p data-bbox="1877 710 2060 742"><input checked="" type="checkbox"/> Not applicable.</p>

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.

Not applicable.

Not applicable.

Low Boiling
Liquid
MAL Number
Audit (Textual)

3302.7

Not applicable.

5/3

Not applicable.

Figure-before-dash (from MAL Number) = 5

3200 < MAL Number [3302.7]

MAL Number = density * Σ [Conc(i) * MAL Factor(i)] = 0.997 * 3312.6 = 3302.7

Density (from Density (g/m³) data entry) = 0.997

Σ [Conc(i) * MAL Factor(i)] = 3312.6

[Hydrocarbons, C9, aromatics] Conc * MAL Factor = 42.34% * 58 = 2455.8

MAL Factor entered against range: '0 to 100' = 58

[XYLENES] Conc * MAL Factor = 14.27% * 46 = 656.6

MAL Factor entered against range: '0 to 100' = 46

[ETHYLBENZENE] Conc * MAL Factor = 3.811% * 46 = 175.3

MAL Factor entered against range: '0 to 100' = 46

[ETHYL ALCOHOL] Conc * MAL Factor = 0.2859% * 7 = 2.002

MAL Factor entered against range: '0 to 100' = 7

[cyclohexanone] Conc * MAL Factor = 0.1986% * 70 = 13.90

MAL Factor entered against range: '0 to 100' = 70

[TOLUENE] Conc * MAL Factor = 0.07258% * 74 = 5.371

MAL Factor entered against range: '0 to 100' = 74

[METHYL ALCOHOL] Conc * MAL Factor = 0.01505% * 54 = 0.8127

MAL Factor entered against range: '0 to 100' = 54

[1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.0125% * 19 = 0.2375

MAL Factor entered against range: '0 to 100' = 19

[N-BUTYL ACETATE] Conc * MAL Factor = 0.012% * 14 = 0.168

MAL Factor entered against range: '0 to 100' = 14

[BENZENE] Conc * MAL Factor = 0.002703% * 880 = 2.379

MAL Factor entered against range: '0 to 100' = 880

[2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.000099% * 181 = 0.01792

MAL Factor entered against range: '0 to 100' = 181

[CUMENE] Conc * MAL Factor = 0.00002% * 1000 = 0.02

MAL Factor entered against range: '0 to 100' = 1000

[ACETIC ACID] Conc * MAL Factor = 0.000004515% * 400 = 0.0001806

MAL Factor entered against range: '0 to 100' = 400

[ACETONE] Conc * MAL Factor = 0.000004515% * 23 = 0.00001038

MAL Factor entered against range: '0 to 100' = 23

Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}

acrylic resin (28.11%)

Default assumption [non-volatile] = 0

Diiron trioxide (5.036%)

MAL Factor entered against range: '0 to 100' = 0

C14-C17 CHLORINATED HYDROCARBONS (4.008%)

MAL Factor entered against range: '0 to 100' = 0

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (0.9319%)

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 = 3

QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.-.BENTONITE (0.5830%)

MAL Factor entered against range: '0 to 100' = 0

CARBON BLACK (0.174%)

MAL Factor entered against range: '0 to 100' = 0

non-hazardous polymer (0.07014%)

Default assumption [non-volatile] = 0

BLOCKED COPOLYMER (0.045%)

MAL Factor entered against range: '0 to 100' = 0

QUARTZ (>10 microns) (0.01202%)

MAL Factor entered against range: '0 to 100' = 0

QUARTZ (<10 microns) (0.005950%)

MAL Factor entered against range: '0 to 100' = 0

Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.001400%)

Default assumption [non-volatile] = 0

organotin compound (0.000099%)

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

WATER (0.000007525%)

MAL Factor entered against range: '0 to 100' = 0

DENATONIUM BENZOATE (0.000002860%)

Default assumption [non-volatile] = 0

OCTAMETHYLCYCLOTETRASILOXANE (0.0000002%)

MAL Factor entered against range: '0 to 100' = 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 (14.27%)

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] = 0.03583639

CARBON BLACK: Ing conc / Ing limit = 0.174 / 25 = 0.00696

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

METHYL ALCOHOL: Ing conc / Ing limit = 0.01505 / 20 = 0.0007525

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

QUARTZ (<10 microns): Ing conc / Ing limit = 0.005950 / 10 = 0.0005950

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

BENZENE: Ing conc / Ing limit = 0.002703 / 0.1 = 0.02703

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

2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.000099 / 0.2 = 0.000495

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

Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.0000001806

ACETIC ACID: Ing conc / Ing limit = 0.0000004515 / 25 = 0.0000001806

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