

Audit - EU DK MAL Code

PPG VIKOTE 56 BLACK 8000

MAL Code	Product as is	Ready-for-use mixture
MAL Protection	<p data-bbox="315 284 353 308">5-3</p> <p data-bbox="315 325 1814 384">According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</p> <p data-bbox="315 421 1814 539">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="315 572 1778 632">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="315 716 488 740">MAL-code: 5-3</p> <p data-bbox="315 748 1805 836">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="315 869 757 893">- Air-supplied full mask must be worn.</p> <p data-bbox="315 932 1812 1019">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="315 1053 920 1077">- Air-supplied full mask and coveralls must be worn.</p> <p data-bbox="315 1115 1267 1139">When spraying in existing* spray booths, if the operator is outside the spray zone.</p> <p data-bbox="315 1177 1068 1201">- Air-supplied full mask, arm protectors and apron must be worn.</p> <p data-bbox="315 1240 1783 1299">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="315 1332 992 1356">- Air-supplied full mask, coveralls and hood must be worn.</p>	Not applicable. Not applicable.
		Not applicable.

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)

3316.0

Not applicable.

5/3

Not applicable.

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

3200 < MAL Number [3316.0]

MAL Number = density * Σ [Conc(i) * MAL Factor(i)] = 1.075 * 3084.6 = 3316.0

Density (from Density (g/m³) data entry) = 1.075

Σ [Conc(i) * MAL Factor(i)] = 3084.6

[Solvent naphtha (petroleum), light arom.] Conc * MAL Factor = 40.56% * 58 = 2352.5

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

[XYLENES] Conc * MAL Factor = 13.08% * 46 = 601.7

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

[ETHYLBENZENE] Conc * MAL Factor = 2.325% * 46 = 106.9

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

[ETHYL ALCOHOL] Conc * MAL Factor = 0.2685% * 7 = 1.880

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

[N-BUTYL METHACRYLATE] Conc * MAL Factor = 0.112% * 16 = 1.792

MAL Factor entered against range: '0 to 100' = 16

[METHYL METHACRYLATE] Conc * MAL Factor = 0.1098% * 46 = 5.049

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

[cyclohexanone] Conc * MAL Factor = 0.0993% * 70 = 6.951

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

[TOLUENE] Conc * MAL Factor = 0.06182% * 74 = 4.575

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

[1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.01278% * 19 = 0.2428

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

[N-BUTYL ACETATE] Conc * MAL Factor = 0.01182% * 14 = 0.1655

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

[BUTANONE / ETHYL METHYL KETONE] Conc * MAL Factor = 0.0111% * 48 = 0.5328

MAL Factor entered against range: '0 to 100' = 48

[PROPYLENE GLYCOL MONOMETHYL ETHER] Conc * MAL Factor = 0.00375% * 28 = 0.105

MAL Factor entered against range: '0 to 100' = 28

[ISOPROPYL ALCOHOL] Conc * MAL Factor = 0.0036% * 29 = 0.1044

MAL Factor entered against range: '0 to 100' = 29

[BENZENE] Conc * MAL Factor = 0.002319% * 880 = 2.041

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

[CUMENE] Conc * MAL Factor = 0.0000273% * 1000 = 0.0273

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

[2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.0000115% * 181 = 0.002082

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

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

2-propenoic acid, 2-methyl-, butyl ester, polymer (22.18%)

Default assumption [non-volatile] = 0

TITANIUM DIOXIDE (15.60%)

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

C14-C17 CHLORINATED HYDROCARBONS (3%)

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

Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine (0.7%)

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 (0.5886%)
 MAL Factor entered against range: '0 to 100' = 0

ALUMINUM HYDROXIDE (0.5775%)
 MAL Factor entered against range: '0 to 100' = 0

POLYAMIDE WAX (0.3%)
 MAL Factor entered against range: '0 to 100' = 0

SILICA (0.165%)
 MAL Factor entered against range: '0 to 100' = 0

ZIRCONIUM OXIDE (0.0825%)
 MAL Factor entered against range: '0 to 100' = 0

TRIMETHYLOLPROPANE (0.07425%)
 MAL Factor entered against range: '0 to 100' = 0

modified polyurethane (0.045%)
 Default assumption [non-volatile] = 0

WATER (0.01905%)
 MAL Factor entered against range: '0 to 100' = 0

QUARTZ (<10 microns) (0.0054%)
 MAL Factor entered against range: '0 to 100' = 0

Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.0006999%)
 Default assumption [non-volatile] = 0

organotin compound (0.000005%)
 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

DENATONIUM BENZOATE (0.000003%)
 Default assumption [non-volatile] = 0

OCTAMETHYLCYCLOTETRASILOXANE (0.0000001%)
 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 (13.08%)
 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] = 0.0237875
 QUARTZ (<10 microns): Ing conc / Ing limit = 0.0054 / 10 = 0.00054
 Minimum value of concentration limit associated with figure-after-dash 6 = 10
 BENZENE: Ing conc / Ing limit = 0.002319 / 0.1 = 0.02319
 Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
 2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.0000115 / 0.2 = 0.0000575
 Minimum value of concentration limit associated with figure-after-dash 6 = 0.2
 Figure-after-dash 5 calculated ratio: Σ [ing conc / ing limit] = 0.833952
 Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine: Ing conc / Ing limit = 0.7 / 1 = 0.7
 Minimum value of concentration limit associated with figure-after-dash 5 = 1
 Figure-after-dash (CLP hazard) = 5
 GHS Status - EU
 Skin sensitization - Category 1 - From 'Entered data'
 Entered data - [EU] [99] [User]

N-BUTYL METHACRYLATE: Ing conc / Ing limit = 0.112 / 1 = 0.112
 Minimum value of concentration limit associated with figure-after-dash 5 = 1
 METHYL METHACRYLATE: Ing conc / Ing limit = 0.1098 / 5 = 0.02195
 Minimum value of concentration limit associated with figure-after-dash 5 = 5