

# Audit - EU DK MAL Code

## PPG VIKOTE 56 WHITE

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"><b>According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</b></p> <p data-bbox="315 421 1814 539"><b>General:</b> 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"><b>Application:</b> 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="315 930 1812 1018">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 1051 920 1075">- Air-supplied full mask and coveralls must be worn.</p> <p data-bbox="315 1112 1267 1136">When spraying in existing* spray booths, if the operator is outside the spray zone.</p> <p data-bbox="315 1173 1068 1197">- Air-supplied full mask, arm protectors and apron must be worn.</p> <p data-bbox="315 1233 1783 1291">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 1327 992 1351">- 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 \*  $\Sigma$ [Conc(i) \* MAL Factor(i)] = 1.075 \* 3084.6 = 3316.0

Density (from Density (g/m<sup>3</sup>) data entry) = 1.075

$\Sigma$ [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/m<sup>3</sup> being available, and no ppm OEL being available] = 0  
 Available value in mg/m<sup>3</sup> = 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/m<sup>3</sup> being available, and no ppm OEL being available] = 0  
 Available value in mg/m<sup>3</sup> = 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  $\Sigma$  [ing conc / ing limit] < 1  
 Figure-after-dash 6 calculated ratio:  $\Sigma$  [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:  $\Sigma$  [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