

# Audit - EU DK MAL Code

## PPG VIKOTE 56 GREY 5177

### Product as is

5-3

### MAL Code

### MAL Protection

**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.

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**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.

- Air-supplied full mask 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. 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 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.

### Ready-for-use mixture

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.

Low Boiling Liquid	Not applicable.	Not applicable.
MAL Number	3352.0	Not applicable.
Audit (Textual)	53 Figure-before-dash (from MAL Number) = 5 3200 < MAL Number [3352.0] MAL Number = density * $\sum$ [Conc(i) * MAL Factor(i)] = 1.018 * 3292.7 = 3352.0 Density (from Density (g/m <sup>3</sup> ) data entry) = 1.018 $\sum$ [Conc(i) * MAL Factor(i)] = 3292.7 [Hydrocarbons, C9, aromatics] Conc * MAL Factor = 33.41% * 58 = 1938.0 MAL Factor entered against range: '>0' = 58 [XYLEMES] Conc * MAL Factor = 15.21% * 46 = 699.7 MAL Factor entered against range: '>0' = 46 [SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC] Conc * MAL Factor = 7.967% * 58 = 462.1 MAL Factor entered against range: '>0' = 58 [ETHYLBENZENE] Conc * MAL Factor = 3.470% * 46 = 159.6 MAL Factor entered against range: '>0' = 46 [cyclohexanone] Conc * MAL Factor = 0.3972% * 70 = 27.80 MAL Factor entered against range: '>0' = 70 [ETHYL ALCOHOL] Conc * MAL Factor = 0.3326% * 7 = 2.328 MAL Factor entered against range: '>0' = 7 [1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.03814% * 19 = 0.7246 MAL Factor entered against range: '>0' = 19 [N-BUTYL ACETATE] Conc * MAL Factor = 0.03563% * 14 = 0.4988 MAL Factor entered against range: '>0' = 14 [METHYL ALCOHOL] Conc * MAL Factor = 0.01751% * 54 = 0.9454 MAL Factor entered against range: '>0' = 54 [CUMENE] Conc * MAL Factor = 0.0009058% * 1000 = 0.9058 MAL Factor entered against range: '>0' = 1000 [toluene] Conc * MAL Factor = 0.0007518% * 74 = 0.05563 MAL Factor entered against range: '>0' = 74 [2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.0002989% * 181 = 0.05410 MAL Factor entered against range: '>0' = 181 [1-BUTANOL] Conc * MAL Factor = 0.0002989% * 67 = 0.02003 MAL Factor entered against range: '>0' = 67 [BENZENE] Conc * MAL Factor = 0.0000009058% * 880 = 0.007971 MAL Factor entered against range: '>0' = 880 [ACETIC ACID] Conc * MAL Factor = 0.0000005252% * 400 = 0.0002101 MAL Factor entered against range: '>0' = 400 [ACETONE] Conc * MAL Factor = 0.0000005252% * 23 = 0.00001208 MAL Factor entered against range: '>0' = 23 Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code} ACRYLIC RESIN (26.56%) MAL Factor entered against range: '>0' = 0 TITANIUM DIOXIDE (6.701%) MAL Factor entered against range: '>0' = 0 PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED (3.8%) MAL Factor entered against range: '>0' = 0 QUATERN.AM.CPS,BIS(HYDROGEN.TALLOW ALKYL)DIMET.,BENTONITE (0.9219%)	Not applicable.

MAL Factor entered against range: '>0' = 0  
N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (0.55%)  
MAL Factor entered against range: '>0' = 0  
ALUMINUM HYDROXIDE (0.252%)  
MAL Factor entered against range: '>0' = 0  
modified polyurethane (0.1359%)  
Default assumption [non-volatile] = 0  
TRIMETHYLOLPROPANE (0.072%)  
MAL Factor entered against range: '>0' = 0  
TITANIUM DIOXIDE (<10 microns) (0.06715%)  
MAL Factor entered against range: '>0' = 0  
SILICA (0.0504%)  
MAL Factor entered against range: '>0' = 0  
WATER (0.03601%)  
MAL Factor entered against range: '>0' = 0  
CARBON BLACK (0.0274%)  
MAL Factor entered against range: '>0' = 0  
ZIRCONIUM OXIDE (0.0216%)  
MAL Factor entered against range: '>0' = 0  
QUARTZ (>10 microns) (0.01901%)  
MAL Factor entered against range: '>0' = 0  
IRON HYDROXIDE OXIDE (0.0124%)  
MAL Factor entered against range: '>0' = 0  
QUARTZ (<10 microns) (0.009408%)  
MAL Factor entered against range: '>0' = 0  
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.002800%)  
Default assumption [non-volatile] = 0  
dibutyltin dilaurate (0.00002717%)  
MAL Factor entered against range: '>0' = 0  
organotin compound (0.00002717%)  
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 (0.000003327%)  
Default assumption [non-volatile] = 0  
OCTAMETHYLCYCLOTETRASILOXANE (0.0000004%)  
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}

XYLEMES (15.21%)

Ingredient concentration is above the limit [10%]

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

Figure-after-dash 6 calculated ratio:  $\sum$  [ing conc / ing limit] = 0.0045244696

CARBON BLACK: Ing conc / Ing limit = 0.0274 / 25 = 0.001096

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

METHYL ALCOHOL: Ing conc / Ing limit = 0.01751 / 20 = 0.0008754

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

QUARTZ (<10 microns): Ing conc / Ing limit = 0.009408 / 10 = 0.0009408

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

2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.0002989 / 0.2 = 0.001495

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

dibutyltin dilaurate: Ing conc / Ing limit = 0.00002717 / 1 = 0.00002717

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

BENZENE: Ing conc / Ing limit = 0.000009058 / 0.1 = 0.00009058

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

Figure-after-dash 4 calculated ratio:  $\sum$  [ing conc / ing limit] = 0.0000000210096

ACETIC ACID: Ing conc / Ing limit = 0.0000005252 / 25 = 0.00000002101

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