

Audit - EU DK MAL Code

PPG VIKOTE 56 GREY 5177

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="315 930 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>	<p data-bbox="1888 284 2063 308">☒ Not applicable.</p> <p data-bbox="1888 325 2063 349">☒ Not applicable.</p> <p data-bbox="1888 716 2063 740">☒ 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)

3289.9

Not applicable.

5/3

Not applicable.

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

3200 < MAL Number [3289.9]

MAL Number = density * Σ [Conc(i) * MAL Factor(i)] = 1.012 * 3250.9 = 3289.9

Density (from Density (g/m³) data entry) = 1.012

Σ [Conc(i) * MAL Factor(i)] = 3250.9

[Hydrocarbons, C9, aromatics] Conc * MAL Factor = 41.53% * 58 = 2408.5

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

[XYLENES] Conc * MAL Factor = 13.77% * 46 = 633.5

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

[ETHYLBENZENE] Conc * MAL Factor = 3.683% * 46 = 169.4

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

[cyclohexanone] Conc * MAL Factor = 0.3972% * 70 = 27.80

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

[ETHYL ALCOHOL] Conc * MAL Factor = 0.2850% * 7 = 1.995

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

[TOLUENE] Conc * MAL Factor = 0.06993% * 74 = 5.175

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

[1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.0375% * 19 = 0.7125

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

[N-BUTYL ACETATE] Conc * MAL Factor = 0.036% * 14 = 0.504

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

[METHYL ALCOHOL] Conc * MAL Factor = 0.015% * 54 = 0.81

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

[BENZENE] Conc * MAL Factor = 0.002606% * 880 = 2.293

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

[2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.000297% * 181 = 0.05376

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

[CUMENE] Conc * MAL Factor = 0.00006% * 1000 = 0.06

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

[ACETIC ACID] Conc * MAL Factor = 0.0000045% * 400 = 0.00018

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

[ACETONE] Conc * MAL Factor = 0.0000045% * 23 = 0.00001035

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

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

acrylic resin (27.03%)

Default assumption [non-volatile] = 0

TITANIUM DIOXIDE (6.715%)

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

C14-C17 CHLORINATED HYDROCARBONS (3.8%)

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

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (1.023%)

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 (0.5821%)

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

CARBON BLACK (0.254%)
MAL Factor entered against range: '0 to 100' = 0
ALUMINUM HYDROXIDE (0.252%)
MAL Factor entered against range: '0 to 100' = 0
BLOCKED COPOLYMER (0.135%)
MAL Factor entered against range: '0 to 100' = 0
non-hazardous polymer (0.077%)
Default assumption [non-volatile] = 0
TITANIUM DIOXIDE (<10 microns) (0.06715%)
MAL Factor entered against range: '0 to 100' = 0
TRIMETHYLOLPROPANE (0.0576%)
MAL Factor entered against range: '0 to 100' = 0
IRON HYDROXIDE OXIDE (0.053%)
MAL Factor entered against range: '0 to 100' = 0
SILICA (0.0504%)
MAL Factor entered against range: '0 to 100' = 0
WATER (0.03601%)
MAL Factor entered against range: '0 to 100' = 0
ZIRCONIUM OXIDE (0.0216%)
MAL Factor entered against range: '0 to 100' = 0
QUARTZ (>10 microns) (0.012%)
MAL Factor entered against range: '0 to 100' = 0
QUARTZ (<10 microns) (0.00594%)
MAL Factor entered against range: '0 to 100' = 0
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.002800%)
Default assumption [non-volatile] = 0
organotin compound (0.000297%)
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 (0.0000285%)
Default assumption [non-volatile] = 0
OCTAMETHYLCYCLOTETRASILOXANE (0.0000004%)
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 (13.77%)

Ingredient concentration is above the limit [10%]

12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (1.023%)

Ingredient concentration is above the limit [1%]

Figure-after-dash (CLP hazard) = 3

GHS Status - EU

Acute toxicity - Inhalation (overall) - Category 4

Acute toxicity - Inhalation (dust/mist) - Category 4 - From 'Entered data'

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

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] = 0.039049

CARBON BLACK: Ing conc / Ing limit = 0.254 / 25 = 0.01016

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

METHYL ALCOHOL: Ing conc / Ing limit = 0.015 / 20 = 0.00075

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

QUARTZ (<10 microns): Ing conc / Ing limit = 0.00594 / 10 = 0.000594

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

BENZENE: Ing conc / Ing limit = 0.002606 / 0.1 = 0.02606

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

2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.000297 / 0.2 = 0.001485

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

Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.00000018

ACETIC ACID: Ing conc / Ing limit = 0.00000045 / 25 = 0.00000018

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