Product as is	**Ready-for-use mixture**
MAL Code 4-3	Not applicable.
MAL Protection **According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:**	Not applicable.

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.

MAL-code: 4-3   Not applicable.
Application: When spraying in new* booths if the operator is outside 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 half mask and eye protection 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.

- Air-supplied half mask, coveralls and eye protection must be worn.

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 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.

- Air-supplied full mask 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.

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	2479.5	Not applicable.
Audit (Textual)		Not applicable.

4/3
Figure-before-dash (from MAL Number) = 4
  1600 < MAL Number [2479.5] ≤ 3200
    MAL Number = density * Σ[Conc(i) * MAL Factor(i)] = 1.122 * 2209.9 = 2479.5
      Density (from Density (g/m³) data entry) = 1.122
      Σ[Conc(i) * MAL Factor(i)] = 2209.9
        [ETHYLBENZENE] Conc * MAL Factor = 30.08% * 46 = 1383.8
          MAL Factor entered against range: '>0' = 46
        [XYLENES] Conc * MAL Factor = 17.36% * 46 = 798.4
          MAL Factor entered against range: '>0' = 46
        [cyclohexanone] Conc * MAL Factor = 0.3158% * 70 = 22.10
          MAL Factor entered against range: '>0' = 70
        [N-BUTYL METHACRYLATE] Conc * MAL Factor = 0.08617% * 16 = 1.379
          MAL Factor entered against range: '>0' = 16
        [1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 0.05707% * 19 = 1.084
          MAL Factor entered against range: '>0' = 19
        [N-BUTYL ACETATE] Conc * MAL Factor = 0.03699% * 14 = 0.5179
          MAL Factor entered against range: '>0' = 14
        [METHYL METHACRYLATE] Conc * MAL Factor = 0.03317% * 46 = 1.526
          MAL Factor entered against range: '>0' = 46
        [CUMENE] Conc * MAL Factor = 0.000924% * 1000 = 0.924
          MAL Factor entered against range: '>0' = 1000
        [DIMETHYL GLUTARATE] Conc * MAL Factor = 0.0008261% * 4 = 0.003305
          MAL Factor entered against range: '>0' = 4
        [toluene] Conc * MAL Factor = 0.0007669% * 74 = 0.05675
          MAL Factor entered against range: '>0' = 74
        [2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.0003706% * 181 = 0.06709
          MAL Factor entered against range: '>0' = 181
        [1-BUTANOL] Conc * MAL Factor = 0.0003069% * 67 = 0.02056
          MAL Factor entered against range: '>0' = 67
        [DIMETHYL SUCCINATE] Conc * MAL Factor = 0.0002828% * 5 = 0.001414
          MAL Factor entered against range: '>0' = 5
        [PROPYLENE GLYCOL MONOMETHYL ETHER] Conc * MAL Factor = 0.00002382% * 28 = 0.0006670
          MAL Factor entered against range: '>0' = 28
        [BENZENE] Conc * MAL Factor = 0.00000924% * 880 = 0.008131
          MAL Factor entered against range: '>0' = 880
        [METHYL ALCOHOL] Conc * MAL Factor = 0.000002470% * 54 = 0.0001334
          MAL Factor entered against range: '>0' = 54
        [ACETIC ACID] Conc * MAL Factor = 0.000001851% * 400 = 0.0007405
          MAL Factor entered against range: '>0' = 400
        [ISOBUTYL METHACRYLATE] Conc * MAL Factor = 0.0000004234% * 1000 = 0.0004234

MAL Factor entered against range: '>0' = 1000

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

2-propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate and methyl 2-methyl-2-propenoate (29.28%)
   Default assumption [non-volatile] = 0

BARIUM SULFATE (13.29%)
   MAL Factor entered against range: '>0' = 0

PARAFFIN WAXES AND HYDROCARBON WAXES; CHLORINATED (4.109%)
   MAL Factor entered against range: '>0' = 0

TITANIUM DIOXIDE (2.027%)
   MAL Factor entered against range: '>0' = 0

COPPER PHTALOCYANINE (2.006%)
   MAL Factor entered against range: '>0' = 0

N,N-1,6-HEXANEDIYLBIS (12-HYDROXY-OCTADECANEIMIDE) (0.41%)
   MAL Factor entered against range: '>0' = 0

ACRYLIC POLYMER (0.1782%)
   Default assumption [non-volatile] = 0

modified polyurethane (0.1386%)
   Default assumption [non-volatile] = 0

SODIUM SULPHATE (0.1188%)
   MAL Factor entered against range: '>0' = 0

N,N''-naphthalene-1,5-diylbis[N'-[3-[(2-ethylhexyl)oxy]propyl]urea] (0.1114%)
   Default assumption [non-volatile] = 0

ALUMINUM HYDROXIDE (0.07623%)
   MAL Factor entered against range: '>0' = 0

[[2,2',2''-[29H,31H-phthalocyaninetriyltris(methylene)]tris[1H-isoindole-1,3(2H)-dionato]](2-)-N29,N30,N31,N32]copper (0.05572%)
   MAL Factor entered against range: '>0' = 0

[N,N,N',N',N'',N''-hexaethyl-29H,31H-phthalocyaninetrimethylaminato(2-)-N29,N30,N31,N32]copper tris(dodecylbenzenesulphonate) (0.05572%)
   MAL Factor entered against range: '>0' = 0

WATER (0.03760%)
   MAL Factor entered against range: '>0' = 0

TRIMETHYLOLPROPANE (0.02178%)
   MAL Factor entered against range: '>0' = 0

IRON OXIDE (0.02136%)
   MAL Factor entered against range: '>0' = 0

TITANIUM DIOXIDE (<10 microns) (0.02031%)
   MAL Factor entered against range: '>0' = 0

CARBON BLACK (0.01740%)
   MAL Factor entered against range: '>0' = 0

SILICA (0.01525%)
   MAL Factor entered against range: '>0' = 0

SILICA CRISTOBALLITE (>10 microns) (0.01335%)
   MAL Factor entered against range: '>0' = 0

acrylic copolymer (0.009879%)
   Default assumption [non-volatile] = 0

ZIRCONIUM OXIDE (0.006534%)
   MAL Factor entered against range: '>0' = 0

BLOCK COPOLYMER (0.002401%)
   Default assumption [non-volatile] = 0

Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.002226%)
   Default assumption [non-volatile] = 0

DIMETHYL ADIPATE (0.0001229%)
   MAL Factor entered against range: '>0' = 0

2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.00004232%)
   MAL Factor entered against range: '>0' = 0

dibutyltin dilaurate (0.00002772%)
   MAL Factor entered against range: '>0' = 0

organotin compound (0.00002772%)
   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

2-tert-butylaminoethyl methacrylate (0.000003528%)
   Default assumption [non-volatile] = 0

COPPER PHTHALOCYANINE GREEN (0.000002229%)
   MAL Factor entered against range: '>0' = 0

HEXACHLOROBENZENE (0.000002006%)
   From DK (Working Environment Authority) 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 = 0.025

BUTYLATED HYDROXYTOLUENE (0.0000007756%)

MAL Factor entered against range: '>0' = 0
OCTAMETHYLCYCLOTETRASILOXANE (0.000000318%)
MAL Factor entered against range: '>0' = 0
TIN (0.00000005080%)
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 = 2
4-METHOXYPHENOL (0.00000001764%)
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}
ETHYLBENZENE (30.08%)
Ingredient concentration is above the limit [10%]
XYLENES (17.36%)
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] = 0.002689612851
CARBON BLACK: Ing conc / Ing limit = 0.01740 / 25 = 0.0006961
Minimum value of concentration limit associated with figure-after-dash 6 = 25
2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.0003706 / 0.2 = 0.001853
Minimum value of concentration limit associated with figure-after-dash 6 = 0.2
dibutyltin dilaurate: Ing conc / Ing limit = 0.00002772 / 1 = 0.00002772
Minimum value of concentration limit associated with figure-after-dash 6 = 1
BENZENE: Ing conc / Ing limit = 0.00000924 / 0.1 = 0.0000924
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
METHYL ALCOHOL: Ing conc / Ing limit = 0.000002470 / 20 = 0.0000001235
Minimum value of concentration limit associated with figure-after-dash 6 = 20
HEXACHLOROBENZENE: Ing conc / Ing limit = 0.000002006 / 0.1 = 0.00002006
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
Figure-after-dash (CLP hazard) = 6
GHS Status - EU
Carcinogen - Category 1B - From 'Entered data'
Entered data - [EU] [11] [Datalink]
Figure-after-dash 5 calculated ratio: Σ [ing conc / ing limit] = 0.0928188071574
N-BUTYL METHACRYLATE: Ing conc / Ing limit = 0.08617 / 1 = 0.08617
Minimum value of concentration limit associated with figure-after-dash 5 = 1
METHYL METHACRYLATE: Ing conc / Ing limit = 0.03317 / 5 = 0.006635
Minimum value of concentration limit associated with figure-after-dash 5 = 5
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-: Ing conc / Ing limit = 0.00004232 / 5 = 0.000008464
Minimum value of concentration limit associated with figure-after-dash 5 = 5
2-tert-butylaminoethyl methacrylate: Ing conc / Ing limit = 0.000003528 / 1 = 0.000003528
Minimum value of concentration limit associated with figure-after-dash 5 = 1
Figure-after-dash (CLP hazard) = 5
GHS Status - EU
Skin sensitization - Category 1B - From 'Entered data'
Entered data - [EU] [99] [User]
ISOBUTYL METHACRYLATE: Ing conc / Ing limit = 0.0000004234 / 5 = 0.00000008468
Minimum value of concentration limit associated with figure-after-dash 5 = 5
4-METHOXYPHENOL: Ing conc / Ing limit = 0.00000001764 / 1 = 0.00000001764
Minimum value of concentration limit associated with figure-after-dash 5 = 1
Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.0000000740528
ACETIC ACID: Ing conc / Ing limit = 0.000001851 / 25 = 0.00000007405
Minimum value of concentration limit associated with figure-after-dash 4 = 25