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
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.

☒Not applicable.

- 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	2957.9	Not applicable.
Audit (Textual)	4-3	Not applicable.

Figure-before-dash (from MAL Number) = 4
   1600 < MAL Number [2957.9] ≤ 3200
     MAL Number = density * Σ[Conc(i) * MAL Factor(i)] = 1.029 * 2874.6 = 2957.9
      Density (from Density (g/m³) data entry) = 1.029
      Σ[Conc(i) * MAL Factor(i)] = 2874.6
       [Hydrocarbons, C9, aromatics] Conc * MAL Factor = 31.75% * 58 = 1841.3
        MAL Factor entered against range: '0 to 100' = 58
       [XYLENES] Conc * MAL Factor = 16.19% * 46 = 744.7
        MAL Factor entered against range: '0 to 100' = 46
       [ETHYLBENZENE] Conc * MAL Factor = 2.910% * 46 = 133.9
        MAL Factor entered against range: '0 to 100' = 46
       [1-METHOXY-2-PROPYL ACETATE] Conc * MAL Factor = 2.664% * 19 = 50.62
        MAL Factor entered against range: '0 to 100' = 19
       [cyclohexanone] Conc * MAL Factor = 0.4093% * 70 = 28.65
        MAL Factor entered against range: '0 to 100' = 70
       [METHYL METHACRYLATE] Conc * MAL Factor = 0.2975% * 46 = 13.68
        MAL Factor entered against range: '0 to 100' = 46
       [N-BUTYL METHACRYLATE] Conc * MAL Factor = 0.2884% * 16 = 4.615
        MAL Factor entered against range: '0 to 100' = 16
       [TOLUENE] Conc * MAL Factor = 0.2460% * 74 = 18.21
        MAL Factor entered against range: '0 to 100' = 74
       [ETHYL ALCOHOL] Conc * MAL Factor = 0.2167% * 7 = 1.517
        MAL Factor entered against range: '0 to 100' = 7
       [N-BUTYL ACETATE] Conc * MAL Factor = 0.1624% * 14 = 2.274
        MAL Factor entered against range: '0 to 100' = 14
       [DIMETHYL GLUTARATE] Conc * MAL Factor = 0.1623% * 4 = 0.6491
        MAL Factor entered against range: '0 to 100' = 4
       [DIMETHYL SUCCINATE] Conc * MAL Factor = 0.05555% * 5 = 0.2777
        MAL Factor entered against range: '0 to 100' = 5
       [dodecane-1-thiol] Conc * MAL Factor = 0.02802% * 1000 = 28.02
        MAL Factor entered against range: '0 to 100' = 1000
       [METHYL ALCOHOL] Conc * MAL Factor = 0.01190% * 54 = 0.6426
        MAL Factor entered against range: '0 to 100' = 54
       [2-METHOXY-1-PROPYL ACETATE] Conc * MAL Factor = 0.01077% * 181 = 1.949
        MAL Factor entered against range: '0 to 100' = 181
       [BENZENE] Conc * MAL Factor = 0.002864% * 880 = 2.521
        MAL Factor entered against range: '0 to 100' = 880
       [PROPYLENE GLYCOL MONOMETHYL ETHER] Conc * MAL Factor = 0.002661% * 28 = 0.07450
        MAL Factor entered against range: '0 to 100' = 28
       [ACETIC ACID] Conc * MAL Factor = 0.0002065% * 400 = 0.08261

MAL Factor entered against range: '0 to 100' = 400
[1-BUTANOL] Conc * MAL Factor = 0.0001988% * 67 = 0.01332
MAL Factor entered against range: '0 to 100' = 67
[CUMENE] Conc * MAL Factor = 0.0001602% * 1000 = 0.1602
MAL Factor entered against range: '0 to 100' = 1000
[ISOBUTYL METHACRYLATE] Conc * MAL Factor = 0.00008317% * 1000 = 0.08317
MAL Factor entered against range: '0 to 100' = 1000
[2-methoxyaniline] Conc * MAL Factor = 0.00001901% * 40000 = 0.7605
From DK (Working Environment Authority) OELs: OELs in mg/m³ and ppm available: 2 * 10000 / OEL in mg/m³ = 2 * 10000 / 0.5 = 40000
Available value in mg/m³ = 0.5
Available value in ppm = 0.1
Warning: ERCF of 2 used. Contact Authorities for MAL Factor.
[DIMETHYL FORMAMIDE] Conc * MAL Factor = 0.00001789% * 230 = 0.004115
MAL Factor entered against range: '0 to 100' = 230
[2-METHOXY-1-PROPANOL] Conc * MAL Factor = 0.000008430% * 267 = 0.002251
MAL Factor entered against range: '0 to 100' = 267
[ACETONE] Conc * MAL Factor = 0.0000003422% * 23 = 0.000007872
MAL Factor entered against range: '0 to 100' = 23
Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}
acrylic polymer based on methyl methacrylate and n-butyl methacrylate (27.54%)
Default assumption [non-volatile] = 0
TITANIUM DIOXIDE (6.417%)
MAL Factor entered against range: '0 to 100' = 0
C14-C17 CHLORINATED HYDROCARBONS (4.163%)
MAL Factor entered against range: '0 to 100' = 0
acrylic copolymer (1.941%)
Default assumption [non-volatile] = 0
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (0.5134%)
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 (0.4502%)
MAL Factor entered against range: '0 to 100' = 0
Diiron trioxide (0.3735%)
MAL Factor entered against range: '0 to 100' = 0
BLOCKED COPOLYMER (0.3605%)
MAL Factor entered against range: '0 to 100' = 0
IRON HYDROXIDE OXIDE (0.3246%)
MAL Factor entered against range: '0 to 100' = 0
Bismuth vanadate (>10 microns) (0.2797%)
Default assumption [non-volatile] = 0
CARBON BLACK (0.2486%)
MAL Factor entered against range: '0 to 100' = 0
BLOCK COPOLYMER (0.2461%)
Default assumption [non-volatile] = 0
ALUMINUM HYDROXIDE (0.2375%)
MAL Factor entered against range: '0 to 100' = 0
C.I. PIGMENT RED 170 (0.2038%)
MAL Factor entered against range: '0 to 100' = 0
SUBSTITUTED AMIDE (0.1998%)
MAL Factor entered against range: '0 to 100' = 0
diazocompound CI 21104 (0.1865%)
MAL Factor entered against range: '0 to 100' = 0
UNSUBSTITUTED DI-PYRROLOPYRROL (0.1807%)
Default assumption [non-volatile] = 0
COPPER PHTHALO GREEN (0.1672%)
MAL Factor entered against range: '0 to 100' = 0
COPPER PHTALOCYANINE (0.1243%)
MAL Factor entered against range: '0 to 100' = 0
2,9 DIMETHYL QUINACRIDONE (0.07873%)
MAL Factor entered against range: '0 to 100' = 0
SILICA (0.06787%)
MAL Factor entered against range: '0 to 100' = 0
BARIUM SULFATE (0.05317%)
MAL Factor entered against range: '0 to 100' = 0
non-hazardous polymer (0.03864%)
Default assumption [non-volatile] = 0
ZIRCONIUM OXIDE (0.03393%)
MAL Factor entered against range: '0 to 100' = 0

TRIMETHYLOLPROPANE (0.03054%)
    MAL Factor entered against range: '0 to 100' = 0
DIMETHYL ADIPATE (0.02414%)
    MAL Factor entered against range: '0 to 100' = 0
ZINC ORTHOPHOSPHATE (0.01418%)
    MAL Factor entered against range: '0 to 100' = 0
copper phthalocyanine derivative (0.01371%)
    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 = 0.2
Copper, [29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32]-, (1,3-dihydro-1,3-dioxo-2H-isoindol-2-yl)methyl derivs. (0.01218%)
    MAL Factor entered against range: '0 to 100' = 0
Talc, non-asbestos form (0.01035%)
    MAL Factor entered against range: '0 to 100' = 0
ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (0.009665%)
    MAL Factor entered against range: '0 to 100' = 0
QUARTZ (>10 microns) (0.009282%)
    MAL Factor entered against range: '0 to 100' = 0
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo- (0.008313%)
    MAL Factor entered against range: '0 to 100' = 0
CALCIUM MOLYBDATE (0.007090%)
    MAL Factor entered against range: '0 to 100' = 0
QUARTZ (<10 microns) (0.004850%)
    MAL Factor entered against range: '0 to 100' = 0
ALUMINUM SILICATE (0.003950%)
    MAL Factor entered against range: '0 to 100' = 0
Reaction mass of dimethyl adipate and dimethyl glutarate and dimethyl succinate (0.003561%)
    Default assumption [non-volatile] = 0
CALCIUM CARBONATE (0.003412%)
    MAL Factor entered against range: '0 to 100' = 0
Siloxanes and Silicones, methyl 3,3,3-trifluoropropyl (0.002885%)
    Default assumption [non-volatile] = 0
polymer (0.001035%)
    Default assumption [non-volatile] = 0
SODIUM SULPHATE (0.0008164%)
    MAL Factor entered against range: '0 to 100' = 0
CALCIUM SULFATE (0.0008164%)
    MAL Factor entered against range: '0 to 100' = 0
organotin compound (0.0007932%)
    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
WATER (0.0007917%)
    MAL Factor entered against range: '0 to 100' = 0
2-TERT-BUTYLAMINOETHYL METHACRYLATE (0.0006930%)
    MAL Factor entered against range: '0 to 100' = 0
dodecyltrimethylammonium chloride (0.0005635%)
    Default assumption [non-volatile] = 0
2'-ethoxy-3-hydroxy-2-naphthanilide (0.0005087%)
    Default assumption [non-volatile] = 0
Bismuth vanadate (<10 microns) (0.0003509%)
    Default assumption [non-volatile] = 0
GRAPHITE (0.0003265%)
    MAL Factor entered against range: '0 to 100' = 0
BUTYLATED HYDROXYTOLUENE (0.00008770%)
    MAL Factor entered against range: '0 to 100' = 0
TIN (0.000005207%)
    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 (0.000003465%)
    MAL Factor entered against range: '0 to 100' = 0
DENATONIUM BENZOATE (0.000002168%)
    Default assumption [non-volatile] = 0
POLYCHLOROBIPHENYLS (0.000001371%)
    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 = 0.01
N,N-Dimethyl-1-Aminododecane (0.0000007615%)
    MAL Factor entered against range: '0 to 100' = 0
OCTAMETHYLCYCLOTETRASILOXANE (0.0000004122%)

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 (16.19%)
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] = 0.093730449616
CARBON BLACK: Ing conc / Ing limit = 0.2486 / 25 = 0.009944
Minimum value of concentration limit associated with figure-after-dash 6 = 25
METHYL ALCOHOL: Ing conc / Ing limit = 0.01190 / 20 = 0.0005950
Minimum value of concentration limit associated with figure-after-dash 6 = 20
2-METHOXY-1-PROPYL ACETATE: Ing conc / Ing limit = 0.01077 / 0.2 = 0.05385
Minimum value of concentration limit associated with figure-after-dash 6 = 0.2
QUARTZ (<10 microns): Ing conc / Ing limit = 0.004850 / 10 = 0.0004850
Minimum value of concentration limit associated with figure-after-dash 6 = 10
BENZENE: Ing conc / Ing limit = 0.002864 / 0.1 = 0.02864
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
2-methoxyaniline: Ing conc / Ing limit = 0.00001901 / 0.1 = 0.0001901
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]
DIMETHYL FORMAMIDE: Ing conc / Ing limit = 0.00001789 / 5 = 0.000003578
Minimum value of concentration limit associated with figure-after-dash 6 = 5
2-METHOXY-1-PROPANOL: Ing conc / Ing limit = 0.000008430 / 2 = 0.000004215
Minimum value of concentration limit associated with figure-after-dash 6 = 2
POLYCHLOROBIPHENYLS: Ing conc / Ing limit = 0.000001371 / 0.1 = 0.00001371
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
Figure-after-dash (OEL Criteria - Carcinogen) = 6
DK OEL: Carcinogen CMR applicable
Figure-after-dash 5 calculated ratio: Σ [ing conc / ing limit] = 0.37825814776
METHYL METHACRYLATE: Ing conc / Ing limit = 0.2975 / 5 = 0.05950
Minimum value of concentration limit associated with figure-after-dash 5 = 5
N-BUTYL METHACRYLATE: Ing conc / Ing limit = 0.2884 / 1 = 0.2884
Minimum value of concentration limit associated with figure-after-dash 5 = 1
dodecane-1-thiol: Ing conc / Ing limit = 0.02802 / 1 = 0.02802
Minimum value of concentration limit associated with figure-after-dash 5 = 1
Figure-after-dash (CLP hazard) = 5
GHS Status - EU
Skin sensitization - Category 1A - From 'Entered data'
Entered data - [EU] [99] [User]
2-Propenoic acid, 2-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-: Ing conc / Ing limit = 0.008313 / 5 = 0.001663
Minimum value of concentration limit associated with figure-after-dash 5 = 5
2-TERT-BUTYLAMINOETHYL METHACRYLATE: Ing conc / Ing limit = 0.0006930 / 5 = 0.0001386
Minimum value of concentration limit associated with figure-after-dash 5 = 5
2'-ethoxy-3-hydroxy-2-naphthanilide: Ing conc / Ing limit = 0.0005087 / 1 = 0.0005087
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 = 0.00008317 / 5 = 0.00001663
Minimum value of concentration limit associated with figure-after-dash 5 = 5
4-METHOXYPHENOL: Ing conc / Ing limit = 0.000003465 / 1 = 0.000003465
Minimum value of concentration limit associated with figure-after-dash 5 = 1
Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.0000090223232
ACETIC ACID: Ing conc / Ing limit = 0.0002065 / 25 = 0.000008261
Minimum value of concentration limit associated with figure-after-dash 4 = 25
N,N-Dimethyl-1-Aminododecane: Ing conc / Ing limit = 0.0000007615 / 1 = 0.0000007615
Minimum value of concentration limit associated with figure-after-dash 4 = 1