Audit - EU DK MAL Code

SIGMAPRIME 700 BASE GREY

	Product as is	Ready-for-use mixture
MAL Code	3-6	Not applicable.
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.	Not applicable.
	MAL-code: 3-6 **Application:** When using scraper or knife, brush, roller etc. for pre- and post-treatments in a spray booth where the operator is outside the spray zone and when working in similar new* facilities of the combined-cabin, spray-cabin and spray-booth type where the operator is working inside the spray zone. When spraying in new* booths and cabins with non-atomizing guns. - Protective clothing 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. 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. 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, protective clothing and eye protection must be worn. When spraying in new* booths if the operator is outside the spray zone. - Air-supplied half mask and eye protection must be worn. When spraying in existing* spray 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. - Air-supplied full mask and protective clothing 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, protective clothing and hood must be worn.	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	1269.4	Not applicable.
Audit (Textual)	3-6 Figure-before-dash (from MAL Number) = 3 800 < MAL Number [1269.4] ≤ 1600 MAL Number = density * Σ[Conc(i) * MAL Factor(i)] = 1.451 * 874.8 = 1269.4 Density (from Density (g/m³) data entry) = 1.451 Σ[Conc(i) * MAL Factor(i)] = 874.8 [XYLENES] Conc * MAL Factor = 11.05% * 46 = 508.5 MAL Factor entered against range: '>0' = 46 [Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)] Conc * MAL Factor = 2.283% * 14 = 31.97 MAL Factor entered against range: '>0' = 14 [PROPYLENE GLYCOL MONOMETHYL ETHER] Conc * MAL Factor = 2.007% * 28 = 56.19 MAL Factor entered against range: '>0' = 28 [ETHYLBENZENE] Conc * MAL Factor = 1.980% * 46 = 91.10 MAL Factor entered against range: '>0' = 46 [ISOBUTYL ALCOHOL] Conc * MAL Factor = 1.761% * 67 = 118.0 MAL Factor entered against range: '>0' = 67 [hydrocarbons C10 >1% naphthalene] Conc * MAL Factor = 0.544% * 25 = 13.6 MAL Factor entered against range: '>0' = 25 [2,6-DIMETHYLHEPTANONE] Conc * MAL Factor = 0.2590% * 47 = 12.17 MAL Factor entered against range: '>0' = 47 [toluene] Conc * MAL Factor = 0.09333% * 74 = 6.906 MAL Factor entered against range: '>0' = 74 [FORMALDEHYDE] Conc * MAL Factor = 0.006525% * 2500 = 16.31 MAL Factor entered against range: '<0.1' = 2500 [2-METHOXY-1-PROPANOL] Conc * MAL Factor = 0.005846% * 267 = 1.561 MAL Factor entered against range: '>0' = 267 [PHENOL] Conc * MAL Factor = 0.003262% * 5000 = 16.31 From DK (Working Environment Authority) OELs: OELs in mg/m³ and ppm available: 2 * 10000 / OEL in mg/m³ = 2 * 10000 / 4 = 5000 Available value in mg/m³ = 4 Available value in ppm = 1 Warning: ERCF of 2 used. Contact Authorities for MAL Factor. [ALPHA-METHYLSTYRENE / ISOPROPENYLBENZENE] Conc * MAL Factor = 0.003262% * 58 = 0.1892 MAL Factor entered against range: '>0' = 58 [BENZENE] Conc * MAL Factor = 0.001983% * 880 = 1.745 MAL Factor entered against range: '>0' = 880 [METHYL ALCOHOL] Conc * MAL Factor = 0.0002277% * 54 = 0.01230 MAL Factor entered against range: '>0' = 54 [ALLYL GLYCIDYL ETHER] Conc * MAL Factor = 0.0002277% * 909.1 = 0.207 From DK (Working Environment Authority) OELs: OELs in mg/m³ and ppm available: 2 * 10000 / OEL in mg/m³ = 2 * 10000 / 22 = 909.1 Available value in mg/m³ = 22 Available value in ppm = 5 Warning: ERCF of 2 used. Contact Authorities for MAL Factor. [ACETIC ACID] Conc * MAL Factor = 0.0002016% * 400 = 0.08064 MAL Factor entered against range: '>0' = 400	Not applicable.

Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}
Talc, non-asbestos form (22.24%)
MAL Factor entered against range: '>0' = 0
EPOXY RESIN (AVERAGE MOLECULAR WEIGHT >700 - <1100) (19.73%)
MAL Factor entered against range: '>0' = 0
QUARTZ (>10 microns) (19.57%)
MAL Factor entered against range: '>0' = 0
ALUMINUM POWDER (4.175%)
MAL Factor entered against range: '>0' = 0
Phenol, methylstyrenated (3.255%)
MAL Factor entered against range: '>0' = 0
QUARTZ (<10 microns) (2.198%)
MAL Factor entered against range: '>0' = 0
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (2.175%)
Default assumption [non-volatile] = 0
12-hydroxyoctadecanoic acid, reaction products with 1,3-benzenedimethanamine and hexamethylenediamine (1.415%)
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
CASHEW NUTSHELL LIQUID (1.305%)
MAL Factor entered against range: '>0' = 0
urea, polymer with formaldehyde, isobutylated (1.264%)
MAL Factor entered against range: '>0' = 0
TITANIUM DIOXIDE (1.028%)
MAL Factor entered against range: '>0' = 0
MAGNESIUM CARBONATE (0.4609%)
MAL Factor entered against range: '>0' = 0
[3-(2,3-epoxypropoxy)propyl]trimethoxysilane (0.2525%)
Default assumption [non-volatile] = 0
CHLORITE-GROUP MINERALS (0.2316%)
MAL Factor entered against range: '>0' = 0
DOLOMITE (0.2293%)
MAL Factor entered against range: '>0' = 0
CASTOR OIL, HYDROGENATED (0.1178%)
MAL Factor entered against range: '>0' = 0
non-hazardous polymer (0.1065%)
Default assumption [non-volatile] = 0
FATTY ACIDS (0.06524%)
Default assumption [non-volatile] = 0
4,6-DIMETHYL-2-HEPTANONE (0.06474%)
Default assumption [non-volatile] = 0
Octadecanoic acid, 12-hydroxy-, reaction products with ethylenediamine (0.04059%)
Default assumption [non-volatile] = 0
ALUMINUM HYDROXIDE (0.03804%)
MAL Factor entered against range: '>0' = 0
SILICA (0.01087%)
MAL Factor entered against range: '>0' = 0
ZIRCONIUM OXIDE (0.005435%)
MAL Factor entered against range: '>0' = 0
TRIMETHYLOLPROPANE (0.004892%)
MAL Factor entered against range: '>0' = 0
esterification reaction product of a hydroxy fatty acid and a hydroxy amide (0.004564%)
Default assumption [non-volatile] = 0
WATER (0.003024%)
MAL Factor entered against range: '>0' = 0
4,4-ISOPROPYLIDENEDIPHENOL (0.002605%)
MAL Factor entered against range: '>0' = 0
fluorinated polyalkyl silicones (0.002275%)
Default assumption [non-volatile] = 0
OCTAMETHYLCYCLOTETRASILOXANE (0.00000652%)
MAL Factor entered against range: '>0' = 0
Figure-after-dash (Ingredient(s) above the cut-off on their own) = 6
Ingredients above the Figure-after-dash 6 concentration limit on their own {Denmark MAL Code}
oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (2.175%)
Ingredient concentration is above the limit [0.1%]
Figure-after-dash (CLP hazard) = 6
GHS Status - EU
Reproductive toxicity
Calculation intermediates involved in final hazard assignment

Reproductive toxicity - Fertility - Category 1B - Effect On: Fertility - From 'Entered data'
Entered data - [EU] [99] [User]