

# Audit - EU DK MAL Code

## SIGMAGUARD 750 BINDER

	Product as is	Ready-for-use mixture
MAL Code	5-3	Not applicable.
MAL Protection	<p><b>According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:</b></p> <p><b>General:</b> 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>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><b>Application:</b> 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>- Air-supplied full mask must be worn.</p> <p>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>- Air-supplied full mask and coveralls must be worn.</p> <p>When spraying in existing* spray booths, if the operator is outside the spray zone.</p> <p>- Air-supplied full mask, arm protectors and apron must be worn.</p> <p>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>- Air-supplied full mask, coveralls and hood must be worn.</p>	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.

Not applicable.

 Not applicable.

Low Boiling  
Liquid  
MAL Number  
Audit (Textual)

 3272.6

Not applicable.

 3

 Not applicable.

Figure-before-dash (from MAL Number) = 5  
3200 < MAL Number [3272.6]  
MAL Number = density \*  $\sum [\text{Conc}(i) * \text{MAL Factor}(i)] = 1.138 * 2875.7 = 3272.6$   
Density (from Density (g/m<sup>3</sup>) data entry) = 1.138  
 $\sum [\text{Conc}(i) * \text{MAL Factor}(i)] = 2875.7$   
[XYLENES] Conc \* MAL Factor = 22.59% \* 46 = 1039.3  
MAL Factor entered against range: '0 to 100' = 46  
[PROPYLENE GLYCOL MONOMETHYL ETHER] Conc \* MAL Factor = 13.94% \* 28 = 390.2  
MAL Factor entered against range: '0 to 100' = 28  
[Tetraethyl Silicate] Conc \* MAL Factor = 5.597% \* 82 = 459.0  
MAL Factor entered against range: '0 to 100' = 82  
[ETHYLBENZENE] Conc \* MAL Factor = 4.007% \* 46 = 184.3  
MAL Factor entered against range: '0 to 100' = 46  
[METHYL ALCOHOL] Conc \* MAL Factor = 1.08% \* 54 = 58.32  
MAL Factor entered against range: '0 to 100' = 54  
[trimethyl borate] Conc \* MAL Factor = 0.72% \* 1000 = 720  
MAL Factor entered against range: '0 to 100' = 1000  
[ETHYL ALCOHOL] Conc \* MAL Factor = 0.252% \* 7 = 1.764  
MAL Factor entered against range: '0 to 100' = 7  
[TOLUENE] Conc \* MAL Factor = 0.1068% \* 74 = 7.906  
MAL Factor entered against range: '0 to 100' = 74  
[2-METHOXY-1-PROPANOL] Conc \* MAL Factor = 0.0406% \* 267 = 10.84  
MAL Factor entered against range: '0 to 100' = 267  
[BENZENE] Conc \* MAL Factor = 0.004007% \* 880 = 3.526  
MAL Factor entered against range: '0 to 100' = 880  
[ACETIC ACID] Conc \* MAL Factor = 0.0014% \* 400 = 0.56  
MAL Factor entered against range: '0 to 100' = 400  
Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}  
QUARTZ (>10 microns) (22.39%)  
MAL Factor entered against range: '0 to 100' = 0  
ETHYL SILICATE POLYMER (22.15%)  
MAL Factor entered against range: '0 to 100' = 0  
QUARTZ (<10 microns) (2.552%)  
MAL Factor entered against range: '0 to 100' = 0  
WATER (2.434%)  
MAL Factor entered against range: '0 to 100' = 0  
ORGANIC DERIVATIVE OF A MONTMORILLONITE CLAY (1.462%)  
MAL Factor entered against range: '0 to 100' = 0  
ETHYL CELLULOSE (0.5%)  
MAL Factor entered against range: '0 to 100' = 0  
SULFURIC ACID (0.1275%)  
MAL Factor entered against range: '0 to 100' = 0  
ZINC CHLORIDE (0.04834%)  
MAL Factor entered against range: '0 to 100' = 0  
ZINC OXIDE (0.0004883%)

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 (22.59%)  
 Ingredient concentration is above the limit [10%]  
 ETHYL SILICATE POLYMER (22.15%)  
 Ingredient concentration is above the limit [1%]  
 Tetraethyl Silicate (5.597%)  
 Ingredient concentration is above the limit [1%]  
 QUARTZ (<10 microns) (2.552%)  
 Ingredient concentration is above the limit [1%]  
 METHYL ALCOHOL (1.08%)  
 Ingredient concentration is above the limit [1%]  
 Stricter figure-after-dash numbers that are not available because  $\Sigma [\text{ing conc} / \text{ing limit}] < 1$   
 Figure-after-dash 6 calculated ratio:  $\Sigma [\text{ing conc} / \text{ing limit}] = 0.3696065$   
 QUARTZ (<10 microns):  $\text{Ing conc} / \text{Ing limit} = 2.552 / 10 = 0.2552$   
 Minimum value of concentration limit associated with figure-after-dash 6 = 10  
 METHYL ALCOHOL:  $\text{Ing conc} / \text{Ing limit} = 1.08 / 20 = 0.054$   
 Minimum value of concentration limit associated with figure-after-dash 6 = 20  
 2-METHOXY-1-PROPANOL:  $\text{Ing conc} / \text{Ing limit} = 0.0406 / 2 = 0.0203$   
 Minimum value of concentration limit associated with figure-after-dash 6 = 2  
 BENZENE:  $\text{Ing conc} / \text{Ing limit} = 0.004007 / 0.1 = 0.04007$   
 Minimum value of concentration limit associated with figure-after-dash 6 = 0.1  
 Figure-after-dash 4 calculated ratio:  $\Sigma [\text{ing conc} / \text{ing limit}] = 0.0255566144$   
 SULFURIC ACID:  $\text{Ing conc} / \text{Ing limit} = 0.1275 / 5 = 0.02550$   
 Minimum value of concentration limit associated with figure-after-dash 4 = 5  
 ACETIC ACID:  $\text{Ing conc} / \text{Ing limit} = 0.0014 / 25 = 0.000056$   
 Minimum value of concentration limit associated with figure-after-dash 4 = 25