

Audit - EU DK MAL Code

SIGMADUR 520/550 HARDENER

	Product as is	Ready-for-use mixture
MAL Code	5-3	Not applicable.
MAL Protection	According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment: 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: 5-3 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. - Air-supplied full mask 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. 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 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.

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.

3553.9

Not applicable.

5-3

Not applicable.

Figure-before-dash (from MAL Number) = 5
3200 < MAL Number [3553.9]
MAL Number = density * Σ [Conc(i) * MAL Factor(i)] = 1.07 * 3321.4 = 3553.9
Density (from Density (g/m³) data entry) = 1.07
 Σ [Conc(i) * MAL Factor(i)] = 3321.4
[XYLENES] Conc * MAL Factor = 14.10% * 46 = 648.5
MAL Factor entered against range: '0 to 100' = 46
[Hydrocarbons, C9, aromatics] Conc * MAL Factor = 4.167% * 58 = 241.7
MAL Factor entered against range: '0 to 100' = 58
[N-BUTYL ACETATE] Conc * MAL Factor = 4.152% * 14 = 58.13
MAL Factor entered against range: '0 to 100' = 14
[ETHYLBENZENE] Conc * MAL Factor = 2.500% * 46 = 115.0
MAL Factor entered against range: '0 to 100' = 46
[HEXAMETHYLENE-DI-ISOCYANATE] Conc * MAL Factor = 0.1125% * 20000 = 2250
MAL Factor entered against range: '0 to 100' = 20000
[toluene] Conc * MAL Factor = 0.06666% * 74 = 4.933
MAL Factor entered against range: '0 to 100' = 74
[1-BUTANOL] Conc * MAL Factor = 0.01250% * 67 = 0.8376
MAL Factor entered against range: '0 to 100' = 67
[BENZENE] Conc * MAL Factor = 0.002500% * 880 = 2.200
MAL Factor entered against range: '0 to 100' = 880
[ACETIC ACID] Conc * MAL Factor = 0.0004167% * 400 = 0.1667
MAL Factor entered against range: '0 to 100' = 400
Ingredients with MAL factor of 0 [did not contribute] {Denmark MAL Code}
Hexamethylene diisocyanate oligomers (isocyanurate type) (74.89%)
MAL Factor entered against range: '0 to 100' = 0
WATER (0.001667%)
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}
Hexamethylene diisocyanate oligomers (isocyanurate type) (74.89%)
Ingredient concentration is above the limit [1%]
XYLENES (14.10%)
Ingredient concentration is above the limit [10%]
HEXAMETHYLENE-DI-ISOCYANATE (0.1125%)
Ingredient concentration is above the limit [0.1%]
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] = 0.081249
HEXAMETHYLENE-DI-ISOCYANATE: Ing conc / Ing limit = 0.1125 / 2 = 0.05625
Minimum value of concentration limit associated with figure-after-dash 6 = 2
BENZENE: Ing conc / Ing limit = 0.002500 / 0.1 = 0.02500
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1
Figure-after-dash 4 calculated ratio: Σ [ing conc / ing limit] = 0.000016668
ACETIC ACID: Ing conc / Ing limit = 0.0004167 / 25 = 0.00001667
Minimum value of concentration limit associated with figure-after-dash 4 = 25

Low Boiling
Liquid
MAL Number
Audit (Textual)