

# Audit - EU DK MAL Code

## THINNER 91-92

|                | 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>MAL-code: 5-3</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.

4348.6

Not applicable.



Figure-before-dash (from MAL Number) = 5  
3200 < MAL Number [4348.6]  
MAL Number = density \*  $\Sigma[\text{Conc}(i) * \text{MAL Factor}(i)] = 0.849 * 5122.0 = 4348.6$   
Density (from Density (g/m<sup>3</sup>) data entry) = 0.849  
 $\Sigma[\text{Conc}(i) * \text{MAL Factor}(i)] = 5122.0$   
[XYLENES] Conc \* MAL Factor = 64.28% \* 46 = 2957.1  
MAL Factor entered against range: '>0' = 46  
[ISOBUTYL ALCOHOL] Conc \* MAL Factor = 24% \* 67 = 1608  
MAL Factor entered against range: '>0' = 67  
[ETHYLBENZENE] Conc \* MAL Factor = 11.4% \* 46 = 524.4  
MAL Factor entered against range: '>0' = 46  
[toluene] Conc \* MAL Factor = 0.304% \* 74 = 22.50  
MAL Factor entered against range: '>0' = 74  
[BENZENE] Conc \* MAL Factor = 0.0114% \* 880 = 10.03  
MAL Factor entered against range: '>0' = 880  
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} (75.6846%)  
XYLENES (64.28%)  
Ingredient concentration is above the limit [10%]  
ETHYLBENZENE (11.4%)  
Ingredient concentration is above the limit [10%]  
Stricter figure-after-dash numbers that are not available because  $\Sigma[\text{ing conc} / \text{ing limit}] < 1$   
Figure-after-dash 6 calculated ratio:  $\Sigma[\text{ing conc} / \text{ing limit}] = 0.114$   
BENZENE:  $\text{Ing conc} / \text{Ing limit} = 0.0114 / 0.1 = 0.114$   
Minimum value of concentration limit associated with figure-after-dash 6 = 0.1

Not applicable.

Low Boiling  
Liquid  
MAL Number  
Audit (Textual)