

Audit - EU DK MAL Code

PSX 700A CLEAR COAT CURE

Denmark MAL Code

Audit - MAL Code

EU Denmark MAL Code:- 4-4

The MAL Code calculations are performed with product and component data.

Product is a Liquid

PSX 700A CLEAR COAT CURE - Components considered for the MAL Code calculation. {Denmark MAL Code}

3-aminopropyltriethoxysilane (98%)

CAS: 919-30-2

Density: 0.95

Molecular Weight: 221.42

Boiling Point: 217

No LBL Factor entered or estimated from CAS Number or Boiling Point.

MAL Factor entered: 33. Limit: 0

FAD entered: 4; Lower Limit: 10

FAD 4 Quotient = 9.8

FAD 3 Quotient = 49

ETHYL ALCOHOL (1.241%)

Organic Solvent.

CAS: 64-17-5

Density: 0.786

Relative Density: 0.8

Molecular Weight: 46.08

Boiling Point: 78.29

Vapour Pressure: 42.95

LBLFactor = 200 (CAS=64175)

MAL Factor entered: 7. Limit: 0

FAD entered: 1; Lower Limit: 0

FAD 1 Quotient = 1241

triethoxy(ethyl)silane (0.5%)

CAS: 78-07-9

Density: 0

Molecular Weight: 192.37

No LBL Factor entered or estimated from CAS Number or Boiling Point.

No MAL Factor calculated.

FAD: 1. (Default)

FAD 1 Quotient = 500

Tetraethyl Silicate (0.25%)

Organic Solvent.

CAS: 78-10-4

Density: 0.94

Relative Density: 0.93

Molecular Weight: 208.37
Boiling Point: 165.5
Vapour Pressure: 0.82
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 82. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.25

TOLUENE (0.009%)

Organic Solvent.
CAS: 108-88-3
Density: 0.87
Relative Density: 0.87
Molecular Weight: 92.14
Boiling Point: 110.6
Vapour Pressure: 23.17
No LBL Factor entered or estimated from CAS Number or Boiling Point.
MAL Factor entered: 74. Limit: 0
FAD entered: 1; Lower Limit: No limit specified. A very low value will be used.
FAD 3 Quotient = 0.001

Density = 0.935. Entered value.

Figure-before-the dash = 4

3-aminopropyltriethoxysilane(@98%). MAL Factor = 33. Total increased by $98*33=3234$. Running Total = 3234

ETHYL ALCOHOL(@1.24%). MAL Factor = 7. Total increased by $1.24*7=8.69$. Running Total = 3242.69

Tetraethyl Silicate(@0.25%). MAL Factor = 82. Total increased by $0.25*82=20.5$. Running Total = 3263.19

TOLUENE(@0.01%). MAL Factor = 74. Total increased by $0.01*74=0.67$. Running Total = 3263.85

Figure-before-the-dash calculated as 4. Via MAL Factor Total * Density ($3263.85 * 0.935$) giving a MAL Number of 3052

MAL Number = Density (0.935) * Sum (3263.85) = 3052

Figure-after-the-dash = 4. Calculated from component data.

3-aminopropyltriethoxysilane (@98%) Increasing Total for FAD4 by 9.8, giving 9.8

3-aminopropyltriethoxysilane (@98%) Increasing Total for FAD3 by 49, giving 49

ETHYL ALCOHOL (@1.24%) Increasing Total for FAD1 by 1241, giving 1241

triethoxy(ethyl)silane (@0.5%) Increasing Total for FAD1 by 500, giving 1741

Tetraethyl Silicate (@0.25%) Increasing Total for FAD3 by 0.25, giving 49.25

TOLUENE (@0.01%) Increasing Total for FAD3 by 0.0009, giving 49.2509

Figure-after-the-dash =4. Total of components with FAD=4 is ≥ 1 .

Low Boiling Liquid = False.

ETHYL ALCOHOL (@1.24%) Total increased by $1.24*7/200=0.04$. Running Total = 0.04

Density * (Sum of components Concentration * MALFactor/LBLFactor) = 0.04

Recommended Usage Temperature is < 40C, hence no MAL Code in use is assigned.

Audit - RFU MAL Code

EU Denmark RFU MAL Code:-

Nothing was found

New Fields for IA3.3

MAL-code : 4-4
MAL Number : 3051.7
MAL Number (RFU) : Not applicable.

Protection based on MAL : 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: 4-4

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.

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. 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 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.

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.

Protection based on R-F-U MAL : Not available.

Not available.

Not available.