

TEST REPORT

REPORT NUMBER : TURT200046259
APPLICANT NAME AGT Ağaç San. Tic. A.Ş
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Attention : Bahar Gültemel (bahar.gultemen@agt.com.tr)
SAMPLE DESCRIPTION : One sample of White coated wooden item (PANEL)
DATE IN : 14 January, 2020 (09:15)
DATE OUT : 11 March, 2020

| TEST | Sample |
|-------------|--------|
| (±)VOC TEST | NR |

P = MEETS BUYER' S REQUIREMENT / F = DOES NOT MEET BUYER' S REQUIREMENT / NR = NO REQUIREMENT / SC=STILL CONTINUES / X=NOT PERFORMED / NA = NOT APPLICABLE/ LS : LACK OF SAMPLE

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Merve AYDOĞAN
Customer Care Executive



Zeynep Akin
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200046259

| Test Method | Result | Requirements |
|-------------|--------|--------------|
|-------------|--------|--------------|

| |
|----------------------------------|
| Tested component |
| MDF plate brown, white laminated |

Chamber conditions

Temperature: 23 +/- 0.5°C Rel.

humidity: 50 +/- 3%

Air exchange rate: 0.5

Sample conditions

after 28 days

(‡)Test results VOC in µg/m³

Test method: DIN ISO 16000-6 mod 2012-11* resp DIN EN 16516 (2018-01)* Limit of

Quantification: 1 µg/m³

n.d. = not determinable

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| Test Method | Result | Requirements |
|------------------------|------------------------|--|
| Substance | CAS-Nr. | Sample Note |
| aromatic hydrocarbons | | |
| Benzene | 71-43-2 | n.d. CMR: Carcinogenic cat. 1A; mutagenic cat. 1B |
| Toluene | 108-88-3 | n.d. CMR: toxic for reproduction (Repro.) cat. 2 |
| Ethylbenzenel | 100-41-4 | n.d. - |
| m/p-Xylene | 108-38-3 | n.d. - |
| o-Xylene | 95-47-6 | n.d. - |
| n-Propylbenzene | 103-65-1 | n.d. - |
| Cumene | 98-82-8 | n.d. - |
| 1,3,5-Trimethylbenzene | 108-67-8 | n.d. - |
| 1,2,4-Trimethylbenzene | 95-63-6 | n.d. - |
| 1,2,3-Trimethylbenzene | 526-73-8 | n.d. - |
| 2-Ethyltoluene | 611-14-3 | n.d. - |
| 3/4-Ethyltoluene | 620-14-4 / 622-96-8 | n.d. - |
| Styrene | 100-42-5 | n.d. CMR: Repro cat. 2 |
| a-Methylstyrene | 98-83-9 | n.d. - |
| 3-Methylstyrene | 100-80-1 | n.d. - |
| Naphthalene | 91-20-3 | n.d. CMR: Carcinogenic cat.2 |
| 1-Phenyl-1-cylohexene | 771-98-2 | n.d. - |
| | | |
| aliphatic hydrocarbons | | |
| n-Hexane | 110-54-3 | n.d. CMR: Repro cat. 2 |
| n-Heptane | 142-82-5 | n.d. - |
| n-Octane | 111-65-9 | n.d. - |
| n-Nonane | 111-84-2 | n.d. - |
| n-Decane | 124-18-5 | n.d. - |
| n-Undecane | 1120-21-4 | n.d. - |
| n-Dodecane | 112-40-3 | n.d. - |
| n-Tridecane | 629-50-5 | n.d. - |
| n-Tetradecane | 629-59-4 | n.d. - |

| Test Method | Result | Requirements | |
|--|------------------------|--------------|--------------------------------|
| Substance | CAS-Nr. | Sample | Note |
| n-Pentadecane | 629-62-9 | n.d. | - |
| n-Hexadecane | 544-76-3 | n.d. | - |
| 2-Methylpentane | 107-83-5 | n.d. | VVOC |
| 3-Methylpentane | 96-14-0 | n.d. | VVOC |
| 1-Octene | 111-66-0 | n.d. | - |
| 1-Decene | 872-05-9 | n.d. | - |
| trimer Isobutene | 7756-94-7 | n.d. | - |
| Isooctane | 540-84-1 | n.d. | - |
| | | | |
| Glykole / Glykol-ether, -ester | | | |
| 1-Methoxy-2-Propanol | 107-98-2 | n.d. | - |
| 2-Butoxyethanol | 111-76-2 | n.d. | - |
| 2-Butoxyethoxyethanol | 112-34-5 | n.d. | - |
| 2-Ethoxyethanol | 110-80-5 | n.d. | CMR: Repro cat. 1B |
| 2-Methoxyethanol | 109-86-4 | n.d. | CMR: Repro cat. 1B |
| 2-Phenoxyethanol | 122-99-6 | n.d. | - |
| 1,2-Dimethoxyethan | 110-71-4 | n.d. | CMR: Repro cat. 1B |
| Dimethoxymethan | 109-87-5 | n.d. | - |
| Propylenglycol | 57-55-6 | n.d. | - |
| Dipropylenglycol mono methylether + Diethylenglycol mono ethylether | 34590-94-8 111-90-0 | n.d. | - |
| 2-Propoxyethanol | 2807-30-9 | 4 | - |
| 2-Methoxyethoxyethanol | 109-59-1 | n.d. | - |
| 1-Methoxy-2-(2-methoxy ethoxy)ethan | 111-96-6 | n.d. | CMR: Repro cat. 1B |
| Dipropylenglykol mono methylether acetat | 88917-22-0 | n.d. | - |
| Triethylenglykol dimethylether | 112-49-2 | n.d. | CMR: Repro cat. 1B |
| Dipropylenglykol dimethylether | 111109-77-4 | n.d. | - |
| Hexylenglykol | 107-41-5 | n.d. | - |
| 2-Methoxy-1-methylethylacetat | 108-65-6 | n.d. | - |
| | | | |
| Ester | | | |
| Vinylacetate | 108-05-4 | n.d. | VVOC; CMR: Carcinogenic cat. 2 |
| Ethylacetate | 141-78-6 | n.d. | VVOC |
| Isopropylacetate | 108-21-4 | n.d. | - |
| Propylacetate | 109-60-4 | n.d. | - |
| iso-Butylacetate | 110-19-0 | n.d. | - |
| n-Butylacetate | 123-86-4 | n.d. | - |
| Linalylacetate | 115-95-7 | n.d. | - |
| Methylacrylate | 96-33-3 | n.d. | - |
| Ethylacrylate | 140-88-5 | n.d. | - |

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Test Method

Result

Requirements

| | | | |
|-----------------------|----------|------|---------------------|
| Methylmethacrylate | 80-62-6 | n.d. | - |
| Butylformiate | 592-84-7 | n.d. | - |
| 2-Methoxyethylacetate | 110-49-6 | n.d. | CMR: Repro. cat. 1B |
| 2-Ethoxyethylacetate | 111-15-9 | n.d. | CMR: Repro. cat. 1B |
| 2-Butoxyethylacetate | 112-07-2 | n.d. | - |
| 2-Ethylhexylacetate | 103-09-3 | n.d. | - |

| Substance | CAS-Nr. | Sample | Note |
|--|------------|--------|-------------------------|
| 2,2,4-Trimethylpentandiol-diisobutyrate (TXIB) | 6846-50-0 | n.d. | - |
| Terpenes | | | |
| -Pinene | 7785-26-4 | n.d. | - |
| -Pinene | 18172-67-3 | n.d. | - |
| 3-Carene | 13466-78-9 | n.d. | - |
| Limonene | 138-86-3 | 2 | - |
| a-Cedrene | 469-61-4 | 4 | - |
| b-Caryophyllene | 87-44-5 | n.d. | - |
| Eugenol | 97-53-0 | n.d. | - |
| Longifolene | 475-20-7 | n.d. | - |
| Alcohols | | | |
| 1-Propanole | 71-23-8 | n.d. | VVOC |
| 2-Propanole | 67-63-0 | n.d. | VVOC |
| 2-Methyl-2-propanole | 75-65-0 | n.d. | - |
| 1-Butanole | 71-36-3 | n.d. | - |
| 1-Pentanole | 71-41-0 | n.d. | - |
| 1-Hexanole | 111-27-3 | n.d. | - |
| 1-Octanole | 111-87-5 | n.d. | - |
| 2-Ethyl-1-hexanole | 104-76-7 | n.d. | - |
| 1-Octen-3-ole | 3391-86-4 | n.d. | - |
| Phenol | 108-95-2 | n.d. | CMR: mutagenic cat. 2 |
| Cyclohexanole | 108-93-0 | n.d. | - |
| Benzylalcohol | 100-51-6 | n.d. | - |
| 2,2,4-Trimethyl-1,3-pentandiol-isobutyrate (Texanol) | 25265-77-4 | n.d. | - |
| Aldehydes | | | |
| Furfural | 98-01-1 | n.d. | CMR: carcinogenic cat.2 |
| trans-Pentenal | 1576-87-0 | n.d. | - |
| 2-Ethylhexanal | 123-05-7 | n.d. | - |

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| Test Method | Result | Requirements |
|-----------------------------------|-----------|-------------------------------|
| | | |
| Ketone | | |
| 2-Butanone (Ethylmethylketone) | 78-93-3 | 7 - |
| Acetophenone | 98-86-2 | n.d. - |
| Isophorone | 78-59-1 | n.d. CMR: carcinogenic cat. 2 |
| 2-Heptanone | 110-43-0 | n.d. - |
| 3-Methyl-2-butanone | 563-80-4 | n.d. - |
| 4-Methyl-2-pentanone | 108-10-1 | n.d. - |
| Cyclopentanone | 120-92-3 | n.d. - |
| Cyclohexanone | 108-94-1 | 3 - |
| 2-Methylcyclopentanone | 1120-72-5 | n.d. - |
| 2-Methylcyclohexanone | 583-60-8 | n.d. - |
| 2-Butanonoxim | 96-29-7 | n.d. CMR: carcinogenic cat. 2 |

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Test Method

Result

Requirements

| Substance | CAS-Nr. | Sample | Note |
|--|-----------|--------|--|
| 4-Methyl-2-pentanon-oxim | 105-44-2 | n.d. | - |
| Cycloalkanes | | | |
| Methylcyclopentane | 96-37-7 | n.d. | - |
| Cyclohexane | 110-82-7 | n.d. | - |
| Methylcyclohexane | 108-87-2 | n.d. | - |
| 1,4-Dimethylcyclohexane | 589-90-2 | n.d. | - |
| 4-Vinyl-1-cyclohexene | 100-40-3 | n.d. | CMR: carcinogenic cat. 2 R _F : cat. 2* |
| halogenated hydrocarbons | | | |
| Dichloromethane | 75-09-2 | n.d. | CMR: carcinogenic cat. 2 |
| 1,1,1-Trichloroethane | 71-55-6 | n.d. | - |
| Trichloroethene | 79-01-6 | n.d. | CMR: carcinogenic cat. 1B; mutagenic cat. 2 |
| Tetrachloroethene | 127-18-4 | n.d. | CMR: carcinogenic cat. 2 R ₀ : cat. 2* |
| 1,4-Dichlorobenzene | 106-46-7 | n.d. | CMR: carcinogenic cat. 2 |
| Further substances | | | |
| 1,4-Dioxane | 123-91-1 | n.d. | CMR: carcinogenic cat.2 |
| 1-Methyl-2-pyrrolidinone | 872-50-4 | n.d. | CMR: Repro. cat. 1B |
| 2-Methylfurane | 534-22-5 | n.d. | - |
| 2-Pentylfurane | 3777-69-3 | n.d. | - |
| Aniline | 62-53-3 | n.d. | CMR: carcinogenic cat. 2; mutagenic cat. 2 |
| Indene | 95-13-6 | n.d. | - |
| Nitrobenzene | 98-95-3 | n.d. | CMR: carcinogenic cat. 2 R _F : cat. 1B |
| Pyridine | 110-86-1 | n.d. | - |
| Tetrahydrofurane (THF) | 109-99-9 | n.d. | CMR: carcinogenic cat. 2 |
| Dimethylphthalate | 131-11-3 | n.d. | - |
| N,N-Dimethylformamide | 68-12-2 | n.d. | CMR: Repro. cat. 1B |
| Sum | | 20 | |
| Sum VVOC | | <1 | |
| Sum VOC (-VVOC) | | 20 | |
| Additionally, a screening was performed. There were further no substances detected in a significant concentration range. | | | |

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Test Method

Result

Requirements

(‡) Test results Aldehydes in $\mu\text{g}/\text{m}^3$

Test method: DIN ISO 16000-3 2013-01* resp DIN EN 16516 (2018-01)*

Limit of Quantification: $3 \mu\text{g}/\text{m}^3$

n.d. = not determinable

| Substance | CAS-Nr. | Sample | Note |
|--------------------------|-----------|--------|---|
| Formaldehyde | 50-00-0 | 140 | EU: carcinogenic cat. 1B; mutagenic cat. 2 |
| Acetaldehyde | 75-07-0 | 2 | VVOC EU: carcinogenic cat. 1B; mutagenic cat. 2 |
| Acroleine | 110-62-3 | n.d. | - |
| Propionaldehyde | 123-38-6 | 1 | - |
| Salicylaldehyde | 90-02-8 | n.d. | - |
| Crotonaldehyde | 4170-30-3 | n.d. | EU: mutagenic cat. 2 |
| Butyraldehyde | 123-72-8 | n.d. | VVOC (TRGS 900: $64000 \mu\text{g}/\text{m}^3$) |
| Benzaldehyde | 100-52-7 | 7 | - |
| Isovaleraldehyde | 590-86-3 | n.d. | |
| Valeraldehyde | 110-62-3 | n.d. | - |
| o-Tolylaldehyde | 529-20-4 | n.d. | |
| m-Tolylaldehyde | 620-23-5 | n.d. | |
| p-Tolylaldehyde | 104-87-0 | n.d. | |
| Hexanale | 66-25-1 | 10 | - |
| 2,5-Dimethylbenzaldehyde | 5779-94-2 | n.d. | |
| Heptanale | 111-71-7 | n.d. | - |
| Octanale | 124-13-0 | n.d. | - |
| Nonanale | 124-19-6 | n.d. | - |
| Decanale | 112-31-2 | n.d. | - |
| Sum Aldehydes | | 160 | |
| Sum Aldehydes for TVOC | | 17 | |
| | | | |
| TVOC | | 37 | |

(‡)This test was subcontracted to Intertek Germany.

END OF TEST REPORT