

## MATERIAL SAFETY DATA SHEET

Date of completion: 10.07.2007.

Date of modification: 13.09.2012.

### 1. Identification of the product

**Name of product:** Lacquered MDF/HDF*Lacquered Medium- & High Density Fibreboard***Producing company:** **Kronospan-MOFA Hungary KFT**

Address: H-7700 Mohács, Budapesti országút 72.

Phone: +36-69-529-501

Fax: +36-69-529-539

**Distributing company:** **Kronospan-MOFA Hungary KFT**

Address: H-7700 Mohács, Budapesti országút 72.

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In case of emergency: Egészségügyi Toxikológiai Tájékoztató Szolgálat

Phone service on duty: +36-1-476-6400; +36-1-476-6464

Green number: +36-80-20-1199

### 2. Hazards identification

**Hazard sign:** no obligation of signing**Hazard symbol:** -**Appearance:** different colour solid material.**Inhalation:** Abrasive action may cause wood dust to be generated that may be an irritant to the respiratory system. Fibreboard can emit minute amounts of gaseous formaldehyde and VOC, whose intensity ventilation effect, and, decreases over time.**Eye:** Abrasive action may cause wood dust to be generated that may be an irritant to the eyes.**Skin:** Product may be an irritant and may cause contact dermatitis to wood sensitive individuals. Wash skin with soapy water. Seek medical advice for chronic symptoms of exposure.

## Lacquered MDF/HDF

**H-sentences:** NA.

**P-sentences:**

- 210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- 220 Keep/Store away from clothing/combustible materials.
- 261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- 370+260 In case of fire do not breathe dust/fume/gas/mist/vapours/spray.
- 402+232 Store in a dry place. Protect from moisture.

### 3. Composition / Ingredients

**Content:** The product consists of (hard-, soft- and pine) wood fibre, hardened (effects of ammonium-nitrate and temperature) melamine-urea-formaldehyde artificial resin, and formaldehyde catching urea and hydrophobic effects (paraffin-emulsion) was added on the production. On the production the board top side got a (<20µm) thin film water base (VOC-poor: <0,3w/w%) lacquers and as finish coat acrylic UV-lacquer.

**Composition / Hazardous material content:**

	Name	CAS	EINECS	Concentration	Hazardous sign	H-phrases
1.	Formaldehyde	50-00-0	200-001-8	< 0,1 w/w%	-	332-302-312-314-315

H phrases mentioned in this part relate just to the hazardous component; not to the end-product. The H phrases of the end-product see at 2. and 16. parts.

### 4. Emergencies and First Aid Measures

- Inhalation:** Gaseous formaldehyde and wood dust may irritate respiratory system. Seek fresh air if necessary. Seek medical advice for chronic symptoms of exposure.
- Eye:** Gaseous formaldehyde and wood dust may irritate the eyes. Flush the eyes with water for 5 minutes if contact is made with wood fibre. After that go to eye-doctor if it is necessary.
- Skin:** Product may be an irritant and may cause contact dermatitis to wood sensitive individuals. Wash skin with soapy water.
- Ingestion:** The product at the current state of knowledge does not cause any damage, which would require first aid assistance.

### 5. Fire Fighting Measures

The product is moderately flammable.



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Flammability class: „D”

The method of fire-fighting is determined by the fires of the environment.

Recommended materials for fighting the fire:

- water,
- powder of fire-extinguisher,
- carbon dioxide,

In case of fire, dangerous products of disintegration can evolve (smoke, CO and CO<sub>2</sub>; NO<sub>x</sub>, NH<sub>3</sub>, VOC and aldehydes). These products of disintegration should not be inhaled.

In case of fighting the fire it is obligatory to use the following equipment: clothes from antistatic material covering the whole body, protective gloves and shoes, as well as an isolated breathing apparatus protecting the eyes and the face and also giving effective protection from dangerous products of disintegration.

## 6. Accidental Release Measures

**Personal protection:** Only the people rescuing should be present at the working area. The usage of protective clothes, gloves, shoes and glasses is necessary, as well as that of breathing apparatus in case of the possible evolving of dangerous fumes and/or products of disintegration.

## 7. Handling and Storage

**Handling:** During some procedures of the product's manufacturing (grinding, dimensioning by sawing) dust can occur, which can form an explosive compound if mixed with air.

During manufacturing – already at the place of origin – dust extraction and the replacement of the extracted air with fresh air has to be secured.

**Storage:** Storage should happen in a dry storing place with good airing, where the flat positioning of the plates can be secured. The product has to be protected from high temperatures, open fire and moisture. The product cannot be stored together with inflammable liquids.

## 8. Exposure controls/personal protection

During the manufacturing procedures with dust formation the usage of breathing apparatus of the class FFP1S is obligatory.

The determination of other special measures is not necessary. During handling of the product the related general rules of labour security and labour hygiene should be kept (eg. Safety glasses are recommended when cutting or sanding finished product..). With wood sensitive individuals, precautions should be taken to avoid skin contact.

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## 9. Physical and Chemical Properties

Consistence:	solid
Colour:	different colour
Odour:	mild characteristic
Boiling point:	NA
Melting point:	NA
Flash-point:	NA
Ignition temperature:	341 °C (MSZ 14800-16:1992)
Explosive Limit:	NA
Density:	770 - 900 kg/m <sup>3</sup>
Water solubility:	negligible
pH (20°C):	NA
<i>(4-5, 30 g sawdust of the substance in 500 ml boiling water 30 minutes after)</i>	
Viscosity:	NA
<i>*NA: Not Applicable.</i>	

## 10. Stability and reactivity

**Circumstances to avoid:** The products are to be stored in a dry place with good airing (Offered relative moisture content of air: 65±5%).

**Stability:** Stable, not reactive with other materials. The product does not decompose at ambient temperatures.

**Hazardous products of disintegration:** in case of fire smoke, CO and CO<sub>2</sub>; NO<sub>x</sub>, NH<sub>3</sub>. and aldehydes can evolve.

**Hazardous material emission:** The product contains formaldehyde

at E1 class < 3,5 mg/m<sup>2</sup>h (MSZ EN 717-2, MSZ EN 312 and IOS-MAT-003).



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## 11. Toxicological Data

- Acute effects: No data.
- The product itself may emit VOC and formaldehyde if not stored properly and or wood dust if cut, sanded, or other abrasive action is applied.
- Chronic effects: No data.
- Inhalation: Studies suggest that cutting, sanding, or other abrasive action to this product may generate air born wood dust and VOC or formaldehyde which may irritate the respiratory system or aggravate existing respiratory conditions. Users may become sensitized to wood dust or formaldehyde emissions over extended periods of time.
- Eye contact: Wood fibre and VOC or formaldehyde emissions from cutting, sanding, or other abrasive action may cause irritation of the eyes. Safety goggles are recommended.
- Dermal contact: This product when cut, sanded, or abrasively altered may produce fibre that may be irritating to the skin for wood sensitized individuals. Gloves and or other dermal barriers are recommended if this occurs.

## 12. Ecological Information

No data.

## 13. Disposal Considerations

The waste of this product is not hazardous waste, the combustion usable in accordance with local regulations, as the product is not toxic, is not contain halogenated organic compounds, and their adjunct compounds, heavy metals over the typical levels of natural wood (<0.1 mg / kg). The technical requirements for waste combustion, operating conditions and emission limits for the incineration technology No 3 / 2002. (II. 22) Government Decree does not fall under the scope of the product. Based on so many times modified 16/2001. (VII.18.) E.M.D. the EWC-code is: 03 01 05.

## 14. Transport Information

There is no such requirement.

Not dangerous or hazardous goods.

Not subject to RID / ADR scope. UN Number: -.

## 15. Regulatory information

Hazardous symbol: -

H-phrases: -

P-phrases:

210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

220 Keep/Store away from clothing/combustible materials.

261 Avoid breathing dust/fume/gas/mist/vapours/spray.

370+260 In case of fire do not breathe dust/fume/gas/mist/vapours/spray.

402+232 Store in a dry place. Protect from moisture.

Hazardous material emission: The product is contains formaldehyde

at E1 class  $< 3,5 \text{ mg/m}^2\text{h}$  (MSZ EN 717-2, MSZ EN 312 and IOS-MAT-003).

Other: The maximal concentration of dust allowed in the working area during the processing of the product is  $5 \text{ mg/m}^3$ .

### 15.1. Hazardous materials:

- 2000. XXV. Law from the relevant regulations of the chemical safety.
- 25/2000. (IX. 30.) EüM-SzCsM r. from the chemical safety of workplaces.
- 44/2000. (XII. 27) EüM r. from the hazardous substances and dangerous products in the various procedures and arrangements for activities.
- 41/2000 (XII.20.) EüM-KöM r. from the hazardous substances or dangerous products on the restriction of certain activities.

### 15.2. Fire protection:

- 28/2011. (IX. 06.) BM regulations issued by the National Fire protection Order

### 15.3. OSH:

- 1993. XCIII. law from health and related state regulations.
- 3/2002. (II.8.) SzCsM-EüM r. from the job safety and health requirements and a minimum levels.
- 14/2004. (IV. 19.) FMM r. the equipment and use the minimum level of safety and health requirements
- 65/1999. (XII. 21) EüM r. the employees at the workplace personal protective equipment requirements for minimum safety and health

### 15.4. Workplace air permitted limits:

- 25/2000. (IX.30) EüM-SZCSM r. Chemical safety regulation of workplaces.

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### 15.5. Waste management:

- 2000. XLIII. Law from the Waste Management.
- 16/2001. (VII. 18.) KöM r. from the regulation of waste registry.

### 16. Other Information

- The products object of our deliveries do not contain SVHC substances (Substances of Very High Concern), that are CMR, PBT and vPvB.
- The Company fulfil the requirements of the REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006. concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

The information contained in the safety data sheet correspond to our present knowledge and the related Hungarian (EU conform) regulations.

The safety-technical data sheet contains information about the safe usage of the product, which information does not represent a guarantee in terms of the technical information about applicability.

Mohács, 13.09.2012.

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