SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Raw, thin MDF/HDF (E1, E-LE, GPCO)

Fibreboard, MDF/HDF E-LE in the nominal thickness range of 1.8 mm - < 8.0 mm

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Packaging, FCPM, Door industry, Furniture industry, Lacquering-, Laminating-, Mounting-, Finish foil-, Sandwich panel lines.

1.3 Details of the supplier of the safety data sheet

Producing company:	KRONOSPAN-MOFA Hungary Ltd.
Address:	H-7700 Mohács, Budapesti országút 72.
Phone:	+36-69-529-511
Fax:	36-69-529-539
Distributing company:	KRONOSPAN-MOFA Hungary Ltd.
Address:	H-7700 Mohács, Budapesti országút 72.
Phone:	+36-69-529-511
Fax:	+36-69-529-539
In case of emergency:	Egészségügyi Toxikológiai Tájékoztató Szolgálat (ETTSZ) az Országos Kémiai Biztonsági Intézet (OKBI) osztálya
Address:	H-1097 Budapest, Albert Flórián út 2-6.
Phone service on duty:	+36-1-476-64-64;
E-mail:	ettsz@nnk.gov.hu

1.4 Emergency telephone number

+36-80-20-11-99

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Appearance:

Nature wood colour solid material.

This product is not hazardous in the form in which it is shipped by the manufacturer, but may become hazardous by dust generating downstream activities (e.g. grinding, sanding, cutting or pulverizing).

2.2 Label elements

Hazard pictograms and signal words

Hazard statement: Not Applicable

Hazardous pictograms: Not Applicable

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, 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.

Signal word; H-sentences: Not Applicable

Air saturated with dust released during its processing can form a combustible material.

315 Causes skin irritation
317 May cause an allergic skin reaction
319 Causes serious eye irritation
334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
335 May cause respiratory irritation
350 May cause cancer
373 May cause damage to organs through prolonged or repeated exposure

Precautionary statements, P-sentences:

202 Do not handle until all safety precautions have been read and understood.
210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
220 Keep/Store away from clothing/.../combustible materials.
261 Avoid breathing dust/fume/gas/mist/vapours/ spray.
280 Wear protective gloves/protective clothing/eye protection/face protection.
302+352+305+351+338 IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
308+337+314+340+264 IF exposed or concerned: If eye irritation persists: Get Medical advice/attention if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Wash eye thoroughly after handling.
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.

2.3 Other hazards

The components of this mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

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.

Composition / Hazardous material content:

	Name	CAS	EINECS	Concentration	Hazardous sign	H-phrases
1.	**Formaldehyde**	**50-00-0**	**200-001-8**	**< 0.02 w/w%**	**-**	**301, 311, 314, 317, 331, 335, 341, 350, 370**

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: No special measures are required in relation to the finished product, but the following measures are required in relation to the dust generated during further processing of the product in order to avoid health risks:

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.

4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 – Toxicological Information

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Recommended materials for fighting the fire:

— Water,

— Fire-extinguishing powder

— Carbon dioxide,

— Foam.

5.2 Special hazards arising from the substance or mixture

In case of fire, dangerous products of disintegration can evolve (smoke, CO and CO_2; NO_x, NH_3, and aldehydes). These products of disintegration should not be inhaled, they can be dangerous for human health.

During the processing of the product, wood dust is generated. Wood dust mixed in the air can form an explosive mixture above a certain concentration, avoid contact between the dust cloud and ignition source.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal protection: Do not breathe dust. 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.

6.2 Environmental precautions

No special measures required.

6.3 Methods and material for containment and cleaning up

Not applicable for product in purchased form. Dust generated from sawing, sanding, drilling or routing this product may be vacuumed or shovelled for recovery or disposal. Dust clean-up and disposal activities should be accomplished in a manner to minimize of airborne dust. Dispose of the material collected according to regulations.

6.4 Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment
See Section 13 for disposal information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

During certain production processes of the product (grinding, cutting to size), dust is generated, which can form an explosive mixture when mixed with air. During production processes, use suitable dust extraction equipment to minimize dust generation and accumulation. Clean the work area and equipment regularly.

7.2 Conditions for safe storage, including any incompatibilities

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. Suggested storage temperature: 15-30 °C and relative humidity 45-70%.

7.3 Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Dust needs to be controlled while cutting, sawing, drilling or other dust generating process are performed.

8.2. Exposure controls

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 (e.g.: Safety glasses are recommended when cutting or sanding finished product.). With wood sensitive individuals, precautions should be taken to avoid skin contact.

For information, European limits:

Permissive Exposure Level wood dust: 1.0 mg/m^3

Permissive Exposure Level formaldehyde: 0.6 mg/m^3 ppm

Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values. Due to the explosive potential of dust when suspended in air, precautions should be taken during sanding, sawing or machining of products to prevent sparks or other ignition sources in ventilation equipment. Use of totally enclosed motors is recommended.

Personal Protective Equipment Pictograms while downstream activities:



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

physical state:	solid
colour:	nature wood
odour:	mild characteristic
odour threshold:	not determined
pH:	no relevant
(4-5, 30 g sawdust of the substance in 500 ml boiling water 30 minutes after)	
melting point/freezing point:	not determined
initial boiling point and boiling range:	no relevant
flash point:	no relevant
evaporation rate:	no relevant
flammability (solid, gas):	no data available
upper/lower flammability or explosive limits:	not determined
vapour pressure:	no relevant
vapour density:	not relevant
density (20°C):	790 - 900 kg/m^3, can differ in specific product variations
relative density:	no relevant
viscosity (20°C):	no relevant
solubility(ies):	not soluble in water
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	341 °C (MSZ 14800-16:1992)
decomposition temperature:	no data available
burning time:	no data available
explosive properties:	not display
oxidising properties:	not display

9.2 Other information

No further information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is not reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

The product is stable under normal recommended conditions of use and storage.

Conditions to be avoided: No decomposition if used according to specifications

10.3 Possibility of hazardous reactions

Hazardous material content: The product contains formaldehyde

at E1 class ≤ 8.0 mg/ 100 g dry material (measured in acc. with MSZ EN 12460-5).

The formaldehyde emission value of E-LE panels for CARB-EPA certified products is based on IKEA-IOS-MAT-0003 AA-10899-15 (2020-07-06), and CCR, title 17, 93120.2(a) Phase 2 and EPA TSCA Title VI. and Canada SOR/2021-148 actual (S)QCLs and below the limit value (ISO 12460-5:2016 Perforator value ≤5.00 mg/100g plate (@6.5% moisture) and ASTM D 6007-14 or ASTM E 1333-14 emission ≤0.08 ppm),

If the products certified as GPCO, IKEA-IOS-MAT-0181 AA-218346-3 (2020-07-06) 1. 4.2 Table 2. and below the actual (S)QCLs and limits according to the German Chemikalien-Verbotsverordnung Section 2.1 (emission ≤0.1 ppm according to ISO EN 16516:2018 and emission ≤0.05 ppm according to ISO EN 717-1:2005). See also: our Technical (TDS) what is available on our website and our various manufacturer's declarations of conformity (GSoC)!

10.4 Conditions to avoid

Exposure to water, ignition source, high relative humidity and high temperature.

10.5 Incompatible materials

Acids, strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition may occur thermal and/or thermal oxidative decomposition can produce irritating and toxic fumes and gases.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

No effects on toxicity known on the product.

Wood dust generated from handling, sanding or machining the product may cause nasal dryness, irritation, coughing and sinusitis. The International Agency for Research on Cancer (IARC) classifies wood dust as a human carcinogen (IARC Group 1).

Acute effects: No data.

The product itself may liberate 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 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 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.

Repeated dose toxicity
Based on available data, the classification criteria are not met.
Germ cell mutagenicity
Based on available data, the classification criteria are not met.
Reproductive toxicity
Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure (STOT):
Based on available data, the classification criteria are not met.
Specific target organ toxicity - repeated exposure (STOT):
Based on available data, the classification criteria are not met.
Aspiration hazard:
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

SECTION 12: Ecological information

12.1 Toxicity

Not applicable for the product. Product is not classified as hazardous for the aquatic environment.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential

Not applicable for the product.

12.4 Mobility in soil

No further relevant information available. General notes: generally not hazardous for water.

12.5 Results of PBT and vPvB assessment

Not applicable.

12.6 Endocrine disrupting properties

Not applicable.

12.7 Other adverse effects

No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Dispose of in an approved waste disposal facility and in accordance with local regulations.

Recommendation: EWC: 03 01 05

Dispose of packaging according to regulations on the disposal of packaging

SECTION 14: Transport information

14.1 UN number

Not applicable. Product is not classified as dangerous during transport.

RID, ADR, ADN, IMDG, IATA void

14.2 UN proper shipping name

Not applicable.

RID, ADR, ADN, IMDG, IATA void

14.3 Transport hazard class(es)

Not applicable.

RID, ADR, ADN, IMDG, IATA void

14.4 Packing group

Not applicable.

RID, ADR, ADN, IMDG, IATA void

14.5 Environmental hazards

Not applicable.

RID, ADR, ADN, IMDG, IATA void

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No

1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.
Commission Regulation (EU) No 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.
Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.
European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for product.

SECTION 16: Other information

Full text of H-Statements referred to under Section 3

Formaldehyde:

301 Toxic if swallowed
311 Toxic in contact with skin
314 Causes severe skin burns and eye damage.
317 May cause an allergic skin reaction
331 Toxic if inhaled
335 May cause respiratory irritation
341 Suspected of causing genetic defects
350 May cause cancer
370 Causes damage to organs

SVHS: No notification to European Chemical Agency (ECHA) as Thin HDF has no SVHC on candidate list present in a concentration above 0.1% (w/w) and with a total amount of SVHC exceeding 1 ton per year
Small quantities of formaldehyde could be released, as traces of formaldehyde (<0.02% w/w) can be included in the Thin HDF binders/additives.
RoHS: Compliancy with directive 2011/65/UE (Heavy metals).

Education:
Before using the product, the user must be made aware of the occupational safety regulations for handling the product and must receive on-the-job training.

The information contained in the safety data sheet correspond to our present knowledge and the related Hungarian (EU conform) regulations.
However the safety-technical data sheet contains information about the safe usage of the product, which information does not represent a guarantee and a legally valid contractual relationship in terms of the technical information about applicability.