

Safety Data Sheet

EGGER MDF

According to 29 CFR 1910.1200 App D

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

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

1.1 Product Identifier

| | |
|---------------------|---|
| Trade name | EGGER MDF Medium Density Fiberboard |
| Product description | Engineered wood product with reduced Formaldehyde content |

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

| | |
|-----------------|---|
| Recommended use | Decorative use, Furniture, Construction processes |
|-----------------|---|

1.3 Details of the supplier of the Safety Data Sheet

| | |
|--------------------------------|--|
| Manufacturer/Supplier/Importer | Fritz EGGER GmbH & Co. OG Weiberndorf 20 6380 St. Johann in Tyrol Austria +43 0800 888 111 |
| Regional Support Centre | EGGER Wood Products LLC(US) P.O. Box 907 Lexington, NC 27293 T+1-800-940-9633 |
| Additional information | environment@egger.com |

1.4 Emergency phone number

1-800-424-9300 / +1 703-527-3887 (Chemtrec)

Section 2: Hazards identification

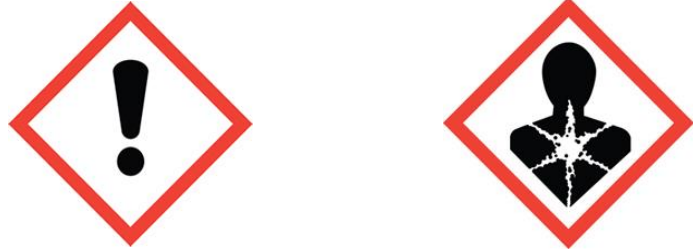
2.1 Classification of the substance or mixture

| | |
|---------------|--|
| OSHA HCS 2012 | This product is generally an article and not hazardous, but is regulated under OSHA for the release of wood dust during downstream activities, like grinding, sanding, cutting and sawing. The free formaldehyde levels are below OSHA reporting requirements. The classifications below are based upon wood dust: Skin Irritation 2 Skin Sensitization 1 Eye Mild Irritation 2B Respiratory Sensitization 1 Specific Target Organ Toxicity Repeated Exposure 2: Respiratory Tract Irritation Carcinogenicity 1A Combustible Dust |
|---------------|--|

2.2 Label elements

Labelling according to paragraph (f) 1910.1200; OSHA29 CFR

Hazard pictograms



Signal word

DANGER

Hazard statements

May form combustible dust concentrations in air
 H315 Causes skin irritation
 H317 May cause an allergic skin reaction
 H320 Causes eye irritation
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H335 May cause respiratory irritation
 H350 May cause cancer (inhalation)
 H373 Causes damage to organs through prolonged or repeated exposure (inhalation)

Precautionary statements

P202 Do not handle until all safety precautions have been read and understood
 P210 Keep away from heat/sparks/open flames/hot surfaces – no smoking
 P260 Do not breathe dust
 P271 Use only outdoors or in a well-ventilated area
 P280 Wear protective gloves/protective clothing/eye protection
 P302+P352+P305+P351+P338 On contact: Wash thoroughly with water
 P308+P337+P314+P340+ P264 If exposed or concerned: Get medical advice/attention if you feel unwell, move to fresh air

2.3 Other hazards

Results of PBT and vPvB assessment

PBT

Not applicable

vPvB

Not applicable

OSHA HCS 2012

This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 Hazard Communication Standard in the form in which it is shipped, but may become hazardous by wood dust generating downstream activities (e.g. grinding, sanding, cutting or pulverizing).

NFPA

Health=1, Flammability=1, Reactivity=0, Special Information=None

HMIS

Health=1*, Flammability=1, Reactivity=0, PFE=E

*Chronic Health Hazard

E=Safety glasses, gloves, and a dust respirator

Section 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures (article)

Description

The products are composed of wood and cured amino resins (polymer). See Section 8 for exposure limits discussion.

*Wood contains trace amounts of various chemicals present in the environment, which are absorbed by trees through natural growth. A comprehensive listing of species is available upon request.

All products produced at EGGER are certified according to the strict California Air Resources Board (CARB)/ TSCA Title VI CALIFORNIA RESIDENTS: This product contains one or more chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 4: First aid measures

4.1 Description of first aid measures

| | |
|---------------------|---|
| General information | No special measures required regarding the product in the form it is shipped , downstream activities like cutting, sawing or grinding can generate dust. To avoid health hazards while these downstream activities, take note of the following measures: |
| Inhalation | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| Skin | Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. After contact with the molten product, cool rapidly with cold water |
| Eye | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| Ingestion | Rinse mouth thoroughly with water. Get medical attention if you feel unwell and contact a poison control center or medical professional. |

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

Use firefighting measures that suit the environment

Water

Fire-extinguishing powder

Carbon dioxide

Foam

5.2 Special hazards arising from the substance or mixture

MDF is a Class A combustible material. If involved in a fire, product will burn.

MDF is not an explosion hazard. Sawing, sanding, or machining MDF can result in the by-product wood dust. Wood dust may present a strong to severe explosion hazard if a dust cloud contacts an ignition source.

Airborne concentrations of 15 grams per cubic meter are often used as the lower explosive limit (LEL) for wood dusts.

OSHA interprets the explosive level as having no visibility within five feet or less.

In case of fire, the following gases can be released:

Carbon dioxide (CO₂), Carbon monoxide (CO), Oxides of Nitrogen and other hazardous gases and particles

5.3 Advice for firefighters

Protective equipment

Mouth respiratory protective device

Additional information

Prevent formation of dust

Dispose of fire debris and contaminated firefighting water in accordance with official regulations.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

Do not breathe dust.

Emergency Procedures

No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

6.2 Environment 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 shoveled for recovery or disposal. Wood 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

Use good safety and industrial hygiene practices. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Wear a respiratory mask if using hand tools without a dust extraction device. Observe all liability insurance association regulations for commercial processing operations (e.g. safety goggles).

Information on protection against explosions and fires

Avoid formation of dust

7.2 Conditions for safe storage, including any incompatibilities

Storage

No special precautions for handling product. Use good safety and industrial hygiene practices. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

Keep away from ignition sources

7.3 Specific end use(s)

No further relevant information available

Section 8: Exposure controls/personal protection

8.1 Control parameters

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

8.2 Exposure controls

| | Result | ACGIH 2007 | NIOSH | OSHA |
|---------------------------|--------|---|--|--|
| Wood dust | TWAs | 1mg/m ³ TWA As Wood dust , all soft and hard woods | 1mg/m ³ TWA As Wood dust, all soft and hard woods | 15mg/m ³ , total dust(5mg/m ³ , respirable fraction) (as nuisance dust) |
| Formaldehyde (50-00-0) | TWAs | 0,3ppm TLV | 0,016ppm TWA, 0.1ppm Ceiling (15 minutes) | 0,75ppm TWA, 2ppm STEL, 0.5ppm action level |

Engineering measures/ controls

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

Personal Protective
Equipment Pictograms



Respiratory

Use of a NIOSH/MSHA approved dust respirator is recommended where airborne dust levels exceed appropriate PELs and TLVs

Eye/Face
Hands

Wear safety glasses

Wear protective gloves – Rubberized cloth, canvas or leather gloves

Skin/Body
General Industrial Hygiene Considerations

Wear long sleeves and/or protective coveralls.
Practice good housekeeping and avoid creating/breathing dust. Do not allow dust to collect. Maintain, clean, and fit test respirators in accordance with OSHA regulations.
No data available

Environmental Exposure Controls

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | |
|------------------|----------------------|---------------------------|--------------------------------------|
| Physical State | Solid | Evaporation rate | Not relevant |
| Color | Yellow to brown | Partition coefficient | Not relevant |
| Flammability | D, d0, s2 (EN 13986) | Autoignition | No data available |
| Odor | No distinctive odor | Decomposition Temperature | No data available |
| Vapor Pressure | Not relevant | Viscosity | No data available |
| Odor threshold | Not relevant | Burning time | No data available |
| Vapor Density | No data available | Density | approx. 700kg/m ³ (EN323) |
| pH | Not relevant | Oxidizing properties | No data available |
| Relative density | Not relevant | Explosive limits | No data available |
| Melting point | Not relevant | Flash point | Not relevant |
| Freezing Point | Not relevant | Boiling Point | Not relevant |
| Solubility | Not soluble in water | | |

9.2 Other information

No further relevant 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

Stable under recommended storage conditions

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

10.3 Possibility of hazardous reactions

No dangerous reactions known

10.4 Conditions to avoid

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

10.5 Incompatible materials

Incompatible Materials: acids(strong), Oxidizers(strong)

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 toxicological effects

Other Material Not applicable for product in purchased from. Individual component information is provided below if available

Components
Formaldehyde 50-00-0 Acute Toxicity: Ingestion/Oral-Rat LD50 >200mg/kg; Inhalation-Rat LD50 0.578mg/l/4h;

| GHS Properties | Classification |
|-------------------------------|--|
| Acute toxicity | OSHA HCS 2012 – Acute Toxicity – Data lacking (Oral, dermal, inhalation) |
| Aspiration hazard | OSHA HCS 2012 – Data lacking |
| Carcinogenicity | OSHA HCS 2012 -- Carcinogenicity 1A |
| Germ Cell Mutagenicity | OSHA HCS 2012 – Data lacking |
| Skin corrosion/Irritation | OSHA HCS 2012 – Skin Irritation 2 |
| Skin sensitization | OSHA HCS 2012 – Skin Sensitizer1 |
| STOT-RE | OSHA HCS 2012 – Specific target Organ Toxicity Repeated Exposure 2 |
| STOT-SE | OSHA HCS 2012 – Specific target Organ Toxicity Single Exposure 3: respiratory Tract Irritation |
| Toxicity for Reproduction | OSHA HCS 2012 – Data lacking |
| Respiratory sensitization | OSHA HCS 2012 – Respiratory Sensitizer 1 |
| Serious eye damage/Irritation | OSHA HCS 2012 – Eye Mild Irritation 2B |

Target Organs Skin/dermal. Lungs, Respiratory System
Route(s) of entry/exposure Inhalation, Skin, eye
Medical Conditions Dusts may aggravate asthma or other respiratory disorders.
Aggravated by Exposure

Potential Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs include:

Inhalation

Acute(Immediate) May cause respiratory irritation
Chronic (Delayed) Repeated and prolonged exposure may cause cancer. Repeated and prolonged exposure may cause sensitization of the respiratory system.

Skin

Acute(Immediate) May cause irritation
Chronic(Delayed) Repeated and prolonged exposure may cause sensitization

Eye

Acute (Immediate) May cause irritation
Chronic(Delayed) No data available

Ingestion

Acute(Immediate) Under normal conditions of use, no health effects are expected.
Chronic(Delayed) Under normal conditions of use, no health effects are expected.
Carcinogenic Effects Wood dust is listed by NTP known to be a Human Carcinogen(10th Report), IARC Monographs: Wood dust, group 1 – IARC Group 1: Carcinogenic to humans; sufficient evidence of carcinogenicity. This classification is primarily baes on studies showing an association between occupational exposure to wood dust and adenocarcinoma of the nasal cavities and paranasal sinuses. IARC di d not find sufficient evidence of an association between occupational exposure to wood dust and cancers of the hypopharynx, oropharynx, lymphatic and hematopoietic systems, lungs, stomach, colon or rectum.

Carcinogenic Effects

| | CAS | OSHA | IARC | NTP |
|---|---------------|-----------------------------------|------------------------|------------------------|
| Wood dust as Wood dust, all soft and hard woods | Not Available | Not Listed | Group 1-Carcinogenic | Known Human Carcinogen |
| Formaldehyde | 50-00-0 | Specifically Regulated Carcinogen | Group 1 – Carcinogenic | Known Human Carcinogen |

Section 12: Ecological information

12.1 Toxicity

Formaldehyde: EC50 5.8mg/l/48h (Daphnia magna)
Not applicable for MDF

12.2 Persistence and degradability

No further relevant information available

12.3 Bioaccumulative potential

Formaldehyde: log P_{ow}: 0.35
Not applicable for MDF

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

PBT

Not applicable

vPvB

Not applicable

12.6 Other adverse effects

No further relevant information available

Section 13: Disposal considerations

13.1 Waste treatment methods

Recommendation Disposal according to local regulations

Uncleaned packaging

Recommendations Dispose of packaging according to regulations on the disposal of packaging

Section 14: Transport information

14.1 UN-number

ADR, ADN, IMDG, IATA

Void

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

ASR, ADN, IMDG, IATA class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

UN "Model Regulation"

void

Section 15: Regulatory Information

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

SARA Hazard Classifications Acute, Chronic

| Inventory Component | CAS | Canada DSL | TSCA |
|---------------------|----------------|---|--|
| MDF | Not applicable | Not listed. All components are on the Canada DSL or are excluded from listing | Not listed. All components are on the TSCA inventory or are excluded from listing. |

Canada – WHMIS – Classifications of Substances
MDF and ingredients(unless listed below)

N/A Not listed or below de minimis reporting quantities
B1, D1A, D2A, D2B

Formaldehyde
Canada – WHMIS – Ingredient Disclosure List
MDF and ingredients(unless listed below)

N/A Not listed or below de minimis reporting quantities
0,1% (concentration in product is below de Minimis)

Formaldehyde

50-00-0 0,1% (concentration in product is below de Minimis)

U.S.-OSHA – Process Safety Management – Highly hazardous Chemicals
MDF and ingredients (unless listed below)

N/A Not listed
1000lb TQ

Formaldehyde

50-00-0 1000lb TQ

Environment

U.S. – CERCLA – Hazardous Substances
MDF and ingredients(unless listed below)

N/A Not listed
100lb final RQ

Formaldehyde

50-00-0 100lb final RQ

U.S. – CERCLA/SARA – Section 304 EHS RQ
MDF and ingredients(unless listed below)

N/A Not listed
100lb EPCRA RQ

Formaldehyde

50-00-0 100lb EPCRA RQ

U.S. – EPCRA –Section 302 (EHS) TPQ
MDF and ingredients(unless listed below)

N/A Not listed
500lb TPQ

Formaldehyde

50-00-0 500lb TPQ

U.S. – EPCRA – Section 313 – Toxic Chemicals
MDF and ingredients(unless listed below)

N/A Not listed
0.1% de Minimis concentration(Concentration in product is below de Minimis)

Formaldehyde

50-00-0 0.1% de Minimis concentration(Concentration in product is below de Minimis)

United States – California

Environment

U.S. – California – Proposition 65 –Carcinogens List
MDF and ingredients(unless listed below)

N/A Not listed
Carcinogen, NSRL 40µg/day

Formaldehyde (gas)

50-00-0 Carcinogen, NSRL 40µg/day

Wood dust as Wood dust, all soft and hard woods

N/A Carcinogen

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out

Section 16: Other information

This information is based on our present knowledge and comes from sources believed to be accurate or otherwise technically correct. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Initial release 24.08.2018

Last revision date 27.02.2018

Abbreviations and acronyms

| | |
|--------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ACGIH | Association Advancing Occupational and Environmental Health |
| CAS | Chemical Abstracts Service (division of the American Chemical Society) |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| DSL | Domestic substances list |
| EHS | Extreme Hazardous Substances |

| | |
|---------|---|
| GHS | Globally Harmonized System of Classification and Labelling of Chemicals |
| HCS | Hazard Communication Standard |
| IATA | International Air Transport Association |
| IBC | Intermediate Bulk Container |
| IMDG | International Maritime Code for Dangerous Goods |
| MSHA | Mine Safety and Health Administration |
| NFPA | National Fire Protection Association |
| NIOSH | National Institute for Occupational Safety and Health |
| NPCA | National Paint Coating Association |
| NSRL | No Significance Risk Level |
| OSHA | Occupational Safety and Health Administration |
| PEL | Personal Exposure Limit |
| PBT | Persistent, Bioaccumulative and Toxic |
| RQ | Reportable Quantities |
| SARA | Superfund Amendments and Reauthorization Act |
| STEL | Short-term exposure limit |
| STOT-RE | Specific target organ toxicity – repeated exposure |
| STOT SE | Specific target organ toxicity – single exposure |
| TLV | Threshold limit value |
| TPQ | Threshold Planning Quantity |
| TSCA | Toxic Substances Control Act |
| TWA | Time-weighted average |
| UN | United Nations |
| vPvB | Very Persistent and very Bioaccumulative |
| WHMIS | Workplace Hazardous Materials Information System |

Changelog

| Version | Chapter | Changes |
|---------|----------|---|
| 03 | all | Formal changes |
| 03 | 01 | Added additional information Mail address |
| 03 | 03 | Deleted exact composition, because not relevant for safety aspects Added descriptions: polymer at resins and article at mixtures |
| 03 | 04 | Added General information |
| 03 | 05 | Deleted cyanides and aldehydes (included in hazardous gases) |
| 03 | 10 | Changed the hazardous decomposition products (already included) |
| 03 | 16 | Added changelog Corrected and added abbreviations and acronyms Added initial release date, deleted user |
| 03 | appendix | GHS summary was deleted |

California Proposition 65 Notification Requirement

Warning

Drilling, sawing, or machining wood products generates wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or another safeguard for personal protection.

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