Glunz AG Plant Meppen / Beeskow (Germany)

MSDS for wood fiber panels

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1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

MDF Medium Density Fiberboard, HDF High Density Fiberboard

Use of the substance / preparation

These product is a compound of softwood, hardwood and resin. OSB for use in furniture industrie, construction industrie, interior fittings.

Company/undertaking identification

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2. Composition/information on ingredients

Chemical characterization		
Chemical name:	not available	
Chemical property/ies:	formaldehyde emission < 0,1ppm =< 8mg/100g atro wood (DIBT rule 100)	
Synonyme(s):	not available	
Chemical characterization (preperation)	**compound of wood (85% - 95%)**	
Description:	softwood, bark < 10%, beech and oak < 10%	
Hazard(ous) ingredient(s):	none	
Concentration:	none	
Chemical property/ies:	none	
CAS-no.:	none	
EC-no. (EINECS/ELINCS):	none	
Hazard(s) symbol(s):	none	
R-phrases:	none	
Hazard(ous) ingredient(s):	none	
Additional information:	none	
Chemical characterization (preparation)	**UF / MUF Resin (0 -13%)**	**Wax (0-3%)**
Description:	formaldehyd in water, melamine, urea, condensation product	Paraffin-dispersion
Hazard(ous) ingredient(s):	**1.** Formaldehyde < 0,2%	**1.**Diethanolamin 0-1 Gew.%
		2.Fettalkohol C16-18, ethoxyliert 0-5 Gew.%
Concentration:	Polykondensat, Aminoplast	solid saturated hydrocarbons
CAS-no.:	50-00-0	64742-61-6 (Nota H,N)
EC-no. (EINECS/ELINCS):	200-001-8	265-165-5
Hazard(s) symbol(s):	T	Xn
R-phrases:	23/24/25, 34,43,40 (neu)	22,38,41,48/22
Hazard(ous) ingredient(s):	keine	keine
Additional information:	keine	keine

3. Hazards identification

Hazard(s) statement(s):

Manual or mechanical cutting or abrasion processes performed on the product generated harmful wood dust. Inhalation and other kinds of contact can be harmful to humans.

Specific hazard(s):

Formaldehyde is suspected Carcinogen to human. Cat.3

Softwood Dust is suspected Carcinogen to human. Cat 3B

Informations pertaining to special dangers for human and environment:

May cause sensitization by especially sensitive humans.

Harmful dust is produced during dry-state pulverization.

People who suffer from skin sensitization problems, asthma, allergies, chronic or recurring respiratory illnesses should not be deployed in any process using this preparation.

4. First aid measures

General informations:

In case of allergic disease, especially in the breathing area, seek medical advice immediately.

In case of inhalation:

No special measures are necessary.

In case of skin contact:

Wash with water and soap.

In case of eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water.

In case of ingestion:

Rinse mouth thoroughly with water.

Self-protection of the first aider:

No special measures are necessary.

Information to physician:

Symptomes: Allergic reactions

5. Fire-fighting measures

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

In case of fire may be liberated:

Nitrogen oxides (NOx), Carbon monoxide, Carbon dioxide (CO_2), Sulphur oxides, Formaldehyde

Special protective equipment for fire-fighters:

Use suitable breathing apparatus and protective clothing.

Additional information:

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Fire transmission possible.

Remove product from area of fire.

Co-ordinate fire-fighting measures to the fire surroundings.

Fire class: D-s2,d0 (2000/147/EC, EN 13501-1)

Method: Singel Burning Item Test according to EN 13823

6. Accidental release measures

Personal precautions
Avoid generation of dust.
Provide adequate ventilation.

Environmental precautions
No special environmental measures are necessary.

Methods for cleaning up
Treat the recovered material as prescribed in the section on waste disposal. (number 13.)

Additional information
By proefessional application please use extraction system to discharge wood dust in according to the national exposure limits.

7. Handling and Storage

Handling
Protective measures: against wood dust
If handled uncovered, arragements with local exhaust ventilation should be used if possible.
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
It is recommended to design all work processes always so that the following is excluded:
Eye contact.
Do not breathe in wood dust.
Precautions against fire and explosion:
Moderatly combustible.
Keep away from sources of ignition - No smoking.
Wood dust with air is a explotion mixture.
Usual measures for fire prevention.

Further information on storage conditions:
Protect against: outdoor exposure

8. Exposure controls / Personal protection

Attention should be paid to national exposure limits.

Exposure limit values

Substance name: Formaldehyde
CAS-no. 50 -00-0
EC-no.: 200-001-8
Air limit value(s): MAK = 0,62 mg/m³ = 0,5 ppm (DIBT Richtlinie 100 // 0,1ppm)
Air limit value(s): USA TWA = 0,3 ppm = 0,37 mg/m³ (max. limit)
Overflow factor: 1
Source: TRGS 900, ACGIH TLV
Y: a risk of reproductive effects needs not to be feared if the MAK and BAT value is kept.

Additional exposure limits under the conditions of use:

Substance name: wood dust
CAS-no.: not available
EC-no.: not available
Air limit value(s): TRK = 2 mg/m³ (new installation) , 5 mg/m³ (old installation)
Air limit value(s): ACGIH (2004) TLV: TWA = 15 mg/m³ , TWA = 5 mg/m³ (Respirable Fraction);
STEL/C (15min) = 10 mg/m³
Air limit value(s): OSHA PEL: TWA = 15 mg/m³ , TWA = 5 mg/m³ (Respirable Fraction)
Overflow factor: 4
Source: TRGS 901 part 2 lfd. Nr. 20, OSHA PEL, ACGIH TLV
Y: a risk of reproductive effects needs not to be feared if the MAK and BAT value is kept.

Restriction and monitoring of exposure

Restriction and monitoring of occupational exposure: TRGS 402
Personal protection equipment
Respiratory protection necessary by: overshoot exposure limit wood dust
Suitable respiratory protection apparatus:
Filtering device (DIN EN 147), Ventilator filtering device (DIN EN 147),
Respirator masks: Half-face masks (DIN EN 140), Quarter-face mask (DIN EN 140), Filtering Half-face mask (DIN EN 149),
[Filter-/apparatus type:] FFP2, TH 2P, TM IP, P7
Hand protection: Finger stalls (TRGS 500 minimum protection standard)
eyes protection: is recommendable (protective googles)
body protection: not necessary

9. Physical and chemical Properties

General information

Appearance: wood based panel
Physical state: solid
Odour: characteristic like softwood/hardwood

Important health, safety and environmental information

pH neutral
Dust explosive hazard: wood dust air mixture
dust explosive, dust explosion catergory: ST 1, ST 2
Remark: Dust explosion category is depend on grading and dust volume.

10. Stability and Reactivity

Conditions to avoid:

In case of warming: Danger of fire and explosion by wood dust

Ignition point: 400°C

Glowing temperature: 300°C

Input energy for fire: 100mJ

Materials to avoid: strong oxidant

Thermal decomposition can lead to the escape of irritating gases and vapours.

Hydrocarbons, Formaldehyde, Carbon dioxide, Carbon monoxide, Carbon black, Nitrogen oxides (N0x), Substances containing active hydrogen (e.g. NHx-, OH-, SH- groups)

Additional information:

none

11. Toxicological information

General remarks:

Toxicological data are not available.

Preparation not tested.

The statement is derived from products of similar composition.

12. Ecological information

Ecotoxicity

These wood products are not expected to pose an ecological hazard as a result of their intended uses.

Information about elimination (persistence and degradation)

The organic part of the product is biodegradable.

13. Disposal considerations

Appropriate disposal / Product:

Dispose of waste according to applicable local, state, and federal regulations.

Appropriate disposal / packaging: no special requirements are necessary

14. Transport information

No dangerous good in sense of transport regulation.

15. Regulatory information

Labelling

The product must not be labelled as hazardous material.

National regulations

Observe in addition the national legislative regulations!

Technische Anleitung Luft (TA-Luft): No subject to TA-Luft

Water hazard class (WGK): nwg (non-hazardous to waters)

Other regulations, restrictions and prohibition regulations: none

16. Other information

Wood fiber panels are multi-components product. The additives course-set by the manufacturer are abreacted chemical and place no endangerment there. The potential emissions consists by free aldehydes, hydrocarbon and terpenes of wooden origin. The formaldehyde concentration fulfills the legal requirements from the DIBt guideline 100 E1 class.