

Revision date: 13.04.2018
Replacement of version 0007 of 31.03.2017

Version: 0008



DÄMMPLATTEN AUS SCHWARZWALDHOLZ

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

1.1 Product identifier

Trade name **GUTEX® Thermoflex**
Product number **gute0021**
Item code **not available**

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

Appropriate use:
The product is used as an insulating board.

1.3 Details of the supplier of the safety data sheet

GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG
Gutenberg 5
D-79761 Waldshut-Tiengen
Telephone: +49-7741-6099-0 Fax: +49-7741-6099-57
e-mail-address of the competent person responsible for this Safety Data Sheet:
urban-finking.gefstoff@t-online.de

Technical contact:

GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG; Mr. Albrecht
Telephone: +49-7741-6099-52 Fax: +49-7741-6099-57

1.4 Emergency telephone number

GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG
Telephone: +49-7741-6099-0
The phone number is available only during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product does not meet the criteria for a classification as hazardous in accordance with the current version of Regulation (EC) No 1272/2008.

2.2 Label elements

Hazard pictogram(s):	No pictogram
Signal word(s):	No signal word
Product identifier:	Not required
Hazard statements:	Not required
Precautionary statements:	Not required
Supplemental hazard information:	Not required

Remark:

The product is an article. There is no requirement for the product to be specially labelled according to Regulation (EC) No 1272/2008 or the corresponding national laws.

2.3 Other hazards

According to the German TRGS 905 wood dust is classified as carcinogenic Category 2 (Carc. 2: suspected human carcinogen).

Avoid absolutely formation of dust during processing and treatment. In case of release of wood dust, generation of flammable or explosive mixtures of wood dust or wood chips with atmospheric oxygen is possible.

The product as a solid is deemed to be hazardous to water in general.

This article does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

REACH registration number:

The ingredients do not require registration according to Regulation (EC) No 1207/2006 [REACH] or the registration is scheduled at a later date.

3.2.1 Characterisation

The product is an article in accordance with Article 2 of Regulation (EC) No 1272/2008. It is a wood fiber board (made of softwood cuttings) in accordance with industrial standards EN 13171. It additionally contains specific additives (binding fibers, flame retardant based on ammonium salts of strong acids).

3.2.2 Substances presenting a health/environmental hazard within the meaning of Regulation (EC) No 1272/2008

This article does not contain dangerous substances or mixtures intended to be released under normal or reasonably foreseeable conditions of use.

3.2.3 Substances for which Union workplace exposure limits have been assigned and which are not already included under point 3.2.2 (see also Section 8.)

No substances.

3.2.4 Additional information

None.

SECTION 4: First aid measures

4.1 Description of first aid measures

4.1.1 General information

None.

4.1.2 In case of inhalation

If liberated dust is inhaled, ensure supply of fresh air.

In the event of symptoms take medical treatment.

4.1.3 In case of contact with skin

No special measures necessary.

4.1.4 In case of contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart.

In the event of symptoms consult an ophthalmologist.

Remove contact lenses, if present and easy to do.

Do not rub eyes, cornea damage is possible by mechanical stress.

4.1.5 In case of ingestion

Not relevant.

4.2 Most important symptoms and effects, both acute and delayed

No symptoms and effects known.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

Water spray jet.

5.1.2 Unsuitable extinguishing media

None.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released: toxic pyrolysis products, nitrogen oxides, phosphorus oxides, ammonia, sulfur oxides, aldehydes, carbon monoxide, carbon dioxide.

5.3 Advice for firefighters

In enclosed areas use self-contained breathing apparatus.

Classification of fire reaction rating as per EN 13501-1: European Class E (flammable).

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

SECTION 6: Accidental release measures

6.1 *Personal precautions, protective equipment and emergency procedures*

6.1.1 *For non-emergency personnel*

No special measures necessary if used correctly.

6.1.2 *For emergency responders*

No special measures necessary if used correctly.

6.2 *Environmental precautions*

No special measures necessary if used correctly.

6.3 *Methods and material for containment and cleaning up*

Pick up broken pieces mechanically.

6.4 *Reference to other sections*

For personal protective equipment see also Section 8.

For disposal considerations see also Section 13.

SECTION 7: Handling and storage

7.1 *Precautions for safe handling*

7.1.1 *Advice on safe handling*

No special measures necessary if used correctly. The product is combustible.

Avoid release of dust and dust deposits during processing and treatment.

In the case of formation of dust ensure local exhaust ventilation.

Dust deposits that cannot be avoided must be taken up regularly.

Use approved industrial vacuum cleaner (class M) for removal.

In case of release of wood dust, comply with the protective measures in accordance with TRGS 553¹.

In designing the work process the model solutions of the Control Guidance Sheets 100¹, 110¹, 200¹ and 240¹ must be taken into consideration.

7.1.2 *Advice on general occupational hygiene*

Do not inhale dust.

7.2 *Conditions for safe storage, including any incompatibilities*

7.2.1 *Advice on protection against fire and explosion*

In case of release of wood dust, generation of flammable or explosive mixtures of wood dust or wood chips with atmospheric oxygen is possible.

Keep away from sources of ignition. Do not smoke.

Take precautionary measures against static discharges.

Annex I No 1 and article 11 of the German Ordinance on Hazardous Substances in accordance with EC-Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion).

Application of the module "Fire & explosion" of the easy-to-use workplace control scheme for hazardous substances:
Release group HIGH

In designing the work process the model solutions of the Control Guidance Sheets pc-270¹ and pc-280¹ must be taken into consideration in case of possible release of only small amounts of product (g-band).

In case of possible release of medium up to high amounts of product (kg- or t-band), the model solutions of the Control Guidance Sheet pc-370¹ must be taken into consideration.

7.2.2 *Requirements for storage rooms and vessels*

No special measures necessary.

7.2.3 *Advice on storage compatibility*

Do not store together with strong acidic and alkaline material and oxidising agents.

The information about joint storage given in Table 2 of TRGS 510¹ must be observed.

7.2.4 *Further information on storage conditions*

Store in a dry place.

7.2.5 *Storage class (for Germany only)*

LGK 11 (Combustible solids) in accordance with TRGS 510¹.

7.3 *Specific end use(s)*

The product is only intended for the uses mentioned under subsection 1.2.

Used as a wood fiberboard for use between rafters and timber-framed walls.

Observe technical data sheet.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS No	Identification	Limit values	Remarks
not applicable	wood dust	<p>Only for Germany: 2 mg/m³ inhalable fraction technical reference concentration* K2</p> <p>2 mg/m³ inhalable aerosol TRK value (based on technical feasibility) 3 mg/m³ 2 mg/m³ 2 mg/m³ 1 mg/m³ (new and renovated plants) 1 mg/m³ 5 mg/m³ 5 mg/m³ inhalable aerosol 5 mg/m³ 2 mg/m³</p> <p>4 mg/m³</p>	<p>TRGS 900 (october 2000); TRGS 553 TRGS 905</p> <p>National limit values – eight hours Austria</p> <p>Belgium Denmark Finland Finland France Hungary Italy Latvia Sweden</p> <p>National limit values – short term Denmark</p>
not applicable	softwood dust	<p>3 mg/m³ 2 mg/m³ 5 mg/m³ 5 mg/m³ 2 mg/m³ 5 mg/m³</p> <p>4 mg/m³</p>	<p>National limit values – eight hours Belgium Denmark Hungary Ireland Sweden United Kingdom</p> <p>National limit values – short term Denmark</p>

Remark: * The technical reference concentration has not been taken as an indicative occupational exposure limit value of wood dust on the revised version of the German TRGS 900. In case of formation of dust during processing and treatment, Article 7 paragraph 9 of the German Ordinance on Hazardous Substances must be observed. This value is not in accordance with the regulations and should only be considered as a tool for undertaking a risk assessment in accordance with Article 6 of the German Ordinance on Hazardous Substances.

The methods for measuring chemical agents in workplace atmosphere must meet the general requirements of EN 481, EN 482 and EN 689.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See also subsection 7.1.

Any process which could generate dust must be provided with proper controls to ensure minimisation of dust nuisance (e.g. separation, enclosure, local exhaust ventilation, wetting, dust collectors).

Annex I No 1 and article 11 of the German Ordinance on Hazardous Substances in accordance with EC-Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion).

The effectiveness of suitable protective measures must be controlled.

Suitable assessment methods are described in the German TRGS 402¹.

8.2.2 Individual protection measures, such as personal protective equipment

Personal protective equipment needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. In the cases of special applications, it is recommended to check the chemical resistance with the manufacturer/supplier of the personal protective equipment.

8.2.2.1 Eye/face protection

Tightly fitting safety glasses in accordance with EN 166 (in case of dust liberation).

8.2.2.2 Skin protection

Hand protection:

Work gloves for protection against mechanical damage.

Body protection:

Closed work clothing.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

8.2.2.3 Respiratory protection

Particle filter P2 or P3 in accordance with EN 143 (in dust-laden atmosphere).

Maximum use concentration for substances with occupational exposure limit values (OELV):

P2-filter up to max. 10 x OELV;

P3-filter up to max. 30 x OELV.

These values are only valid for Germany in accordance with the German DGUV Regel 112-190². The limitations in wearing time according to the DGUV Regel 112-190² (rule of the German employers' liability insurance association) for the use of respirators must be observed.

8.2.2.4 Thermal hazards

Not relevant.

8.2.3 Environmental exposure controls

See Section 6.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Physical state:	solid
Colour:	brown
Odour:	odourless
Bulk density (kg/m ³):	approx. 50
Relative density:	not determined
Weight (kg/m ²):	2 – 12
Vapour diffusion factor:	1-2
Nominal thermal conductivity λ_D (W/mK):	0.036
Thermal conductivity (applied) λ (W/mK):	0.038
Thermal resistance (nominal) R_D (m ² K/W):	0,80 – 6.65
Thermal resistance R (m ² K/W):	0,75 – 6.30
Air flow resistivity (kPa · s/m ³):	5
Specific heat capacity (J/kgK):	2100
Maximum operating temperature (°C):	100

9.2 Other information

None.

SECTION 10: Stability and reactivity**10.1 Reactivity**

No data available for the product.

10.2 Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

When used as intended, no hazardous reaction known.

10.4 Conditions to avoid

The maximum operating temperature is 100°C.

In the presence of oxygen, temperatures above 300°C cause degradation of the binding fiber.

The flame retardant decomposes in case of intense heating-up.

10.5 Incompatible materials

No particular materials known.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

For hazardous combustion products see subsection 5.2.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

SECTION 11: Toxicological information

11.1 Information on toxicological effects

No data are available for the product.

11.1.1 Acute toxicity

LD50 rat, oral	(mg/kg)	No data available.
LD50 rat, dermal	(mg/kg)	No data available.
LC50 rat, inhalation	(mg/l/4h)	No data available.

11.1.2 Skin corrosion/irritation

No data available.

11.1.3 Serious eye damage/irritation

No data available.

11.1.4 Respiratory or skin sensitisation

No data are available about sensitising properties of the ingredients.

11.1.5 Germ cell mutagenicity

The product does not contain substances classified as germ cell mutagens.

11.1.6 Carcinogenicity

According to the German TRGS 905 wood dust is classified as carcinogenic Category 2 (Carc. 2: suspected human carcinogen).

11.1.7 Reproductive toxicity

The product does not contain substances classified as toxic for the reproduction.

11.1.8 Specific target organ toxicity (STOT)-single exposure

The product does not contain substances classified as being a specific target organ toxicant after single exposure.

11.1.9 Specific target organ toxicity (STOT)-repeated exposure

The product does not contain substances classified as being a specific target organ toxicant after repeated exposure.

11.1.10 Aspiration hazard

The product does not contain aspiration toxicants.

11.1.11 Symptoms related to the physical, chemical and toxicological characteristics

The product is an article in accordance with Article 2 of Regulation (EC) No 1272/2008 and this means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

Inhalation: possible exposure only in case of liberation of dust during processing and treatment.

11.1.12 Delayed and immediate effects as well as chronic effects from short and long-term exposure

The product is an article in accordance with Article 2 of Regulation (EC) No 1272/2008 and this means an object which during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition.

Inhalation: possible exposure only in case of liberation of dust during processing and treatment.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

LC50	(fish)	No data available.
EC50	(daphnia)	No data available.
IC50	(algae)	No data available.

Behaviour in sewage works:

Broken pieces of the product can be mechanically refined for the most part in waste water cleaning plants.

12.2 Persistence and degradability

The product has not been tested.

Chemical oxygen demand (COD) No data available.

Biochemical oxygen demand (BOD5) No data available.

AOX-hint Not to apply.

12.3 Bioaccumulative potential

The product has not been tested.

12.4 Mobility in soil

The product has not been tested.

12.5 Results of PBT and vPvB assessment

This article does not contain any substances classified as PBT/vPvB in a concentration of 0.1% or more.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG	
	Gutenberg 5, D-79761 Waldshut-Tiengen	Revision date: 13.04.2018
	Telephone: +49-7741-6099-0	
Product number:	gute0021	

12.6 Other adverse effects

Ozone depletion potential No data available.

Photochemical ozone creation potential No data available.

Global warming potential No data available.

The product as a solid is deemed to be hazardous to water in general.

Contains according to the formulation following compounds of directives 2006/11/EC and 80/68/EEC:

None.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste disposal according to official state regulations.

Consult the local waste disposal expert about waste disposal.

Disposal operations/recovery operations according to Directive 2008/98/EC

Disposal operations: D 10 Incineration on land

Recovery operations: R 1 Use principally as a fuel or other means to generate energy

Properties of waste which render it hazardous in accordance with Annex III of Directive 2008/98/EC

Not relevant.

13.1.1 Product / unused product

Waste disposal corresponding to European Waste Catalogue. Wastes must be classified with respect to their origin and depending on different processing steps. The waste codes mentioned as follows are only constituted as our recommendations. Referring to the particular case they should be completed or revised.

EC waste code: 03 01 05

Waste notation: Sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04

Alternative:

EC waste code: 17 02 01

Waste notation: Wood

13.1.2 Contaminated packaging

Recommendation: Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

Recommended cleansing agent: Remove adhering residues mechanically.

Packaging film/Straps:

EC waste code: 15 01 02

Waste notation: Plastic packaging

Pallets:

EC waste code: 15 01 03

Waste notation: Wooden packaging

13.2 Classification in accordance with the German Waste Wood Ordinance (for Germany only)

Scrap wood category: A II

SECTION 14: Transport information**14.1 UN number**

No dangerous good in accordance with the UN Model Regulations (ADR/RID/ADN/IMDG/ICAO/IATA).

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class(es)

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

Not relevant.

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

Not relevant.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG Gutenberg 5, D-79761 Waldshut-Tiengen Telephone: +49-7741-6099-0	Revision date: 13.04.2018
Product number:	gute0021	

SECTION 15: Regulatory information

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

15.1.1 Information regarding relevant Union safety, health and environmental provisions

Regulation (EC) No 1907/2006: Annex V, paragraph 8 (wood)
(exemptions from the obligation to register)

In case of formation of wood dust in such quantities that there is a risk of dust explosion:
Directive 94/9/EC and Directive 1999/92/EC have to be observed.

15.1.2 Information regarding national laws/national measures that may be relevant (for Germany only)

Indications on restriction of occupation: Not relevant
Major Accident Ordinance: Not relevant
Fire and explosion hazards: Annex I No 1 and article 11 of the Ordinance on Hazardous Substances in accordance with Directive 1999/92/EC has to be observed (if wood dust has been formed in such quantities that there is a risk of dust explosion).
Regulation on clean air (TA Luft): Not relevant
Water hazard class: The product as a solid is deemed to be hazardous to water in general in accordance with § 3(2) point 8 AwSV³.
The German Ordinance on facilities for handling substances that are hazardous to water (AwSV) has to be observed.

German Ordinance on Hazardous Substances
(in accordance with EC-Directive 98/24/EC): Article 6 must be observed.

In case of liberation of wood dust during processing and treatment:

German Ordinance on Hazardous Substances
(in accordance with EC-Directive 98/24/EC): Articles 7, 8, 9, 14, Annex I No 2

Regulation on Occupational Medical Prevention
(ArbMedVV): Annex, Part 1 (1):
Obligatory prophylaxis: The employer shall arrange occupational medical prophylaxis for workers conducting activities with exposure to inhalable dust, if the occupational exposure limit value is exceeded.
Annex, Part 1 (2):
Prophylaxis offer: For activities involving inhalable dust occupational medical prevention has to be offered.

Technical Rules for Hazardous Substances¹: TRGS 400, 402, 500, 510, 553, 555, 720, 721, 722, 800, 905

Technical Rules for Industrial Safety¹: TRBS 2152, 2152 Part 1, 2152 Part 2, 2152 Part 3, 2152 Part 4, 2153

Rules of the employers' liability insurance association²: DGUV Regel 113-001, 112-190, 112-192

Information of the employers' liability insurance association²: DGUV Information 250-403, 209-044, 209-045

Classification in accordance with the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2.2, 2014⁴: inhalation: hazard group A
(in case of release of wood dust, the protective measures in accordance with TRGS 553¹ should be applied preferably)

Classification in accordance with the module "Fire & explosion" of the easy-to-use workplace control scheme for hazardous substances of the Federal Institute for Occupational Safety and Health, version 2016⁵:
fire and explosion: hazard group pc-C

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for a substance in the product.

Trade name:	GUTEX® Thermoflex	
Company/Undertaking:	GUTEX® Holzfaserplattenwerk H. Henselmann GmbH + Co KG Gutenberg 5, D-79761 Waldshut-Tiengen Telephone: +49-7741-6099-0	Revision date: 13.04.2018
Product number:	gute0021	

SECTION 16: Other information

- 16.1** *Keeping (restrictions)* Not relevant
Supply to industry consumer, for the general public
- 16.2** *Full text of the hazard statements referred to under subsection 2.1 and point 3.2.2 of the Safety Data Sheet*
 Not to apply.
- 16.3** *Key to abbreviations and acronyms used in the safety data sheet*
- | | |
|------------|---|
| ADN: | Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure |
| ADR: | Accord européen relatif au transport international des marchandises dangereuses par route |
| AOX: | adsorbable organically bound halogens |
| AwSV: | Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water) |
| ICAO/IATA: | International Civil Aviation Organisation/International Air Transport Association-Dangerous Goods Regulations |
| IMDG-Code: | International Maritime Dangerous Goods-Code |
| LGK: | Lagerklasse (storage class) |
| OECD: | Organisation for Economic Co-operation and Development |
| PBT: | persistent, bioaccumulative and toxic |
| RID: | Règlement international concernant le transport des marchandises dangereuses par chemin de fer |
| TRBS: | Technische Regeln für Betriebssicherheit (Technical Rules for Industrial Safety) |
| TRGS: | Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances) |
| VCI: | Verband der chemischen Industrie (German Association of Chemical Industry) |
| vPvB: | very persistent and very bioaccumulative |
- 16.4** *Literature references and sources for data*
- <http://www.baua.de>
 - <http://www.arbeitssicherheit.de>
 - <http://www.umweltbundesamt.de>
 - <http://www.baua.de/emkg>
 - <http://www.baua.de/de/Publikationen/Fachbeitraege/Gd65.html>
- 16.5** *Method used for the classification of the mixture*
 The product is an article. There is no requirement for the product to be specially labelled according to Regulation (EC) No 1272/2008 or the corresponding national laws.
- 16.6** *Changes which have been made to the previous version of the safety data sheet*
 Revised sections: 2.2, 2.3, 3.3 (now 3.2.4), 5.2, 9.1, 12.5, 12.6, 15.1.2, 16.3

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.