

# Safety Data Sheet

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according to Regulation (EC) Nr. 1907/2006 (REACH)

Print date: 04.11.2020

Revision number 4.0

Version date: 04.11.2020

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

- **Product name:** **btf Perimeterdämmplattenkleber**
- **Product codes:** -

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

No further relevant information available.

- **Identified uses of the substance or mixture**  
Adhesive

### 1.3 Details of the supplier of the safety data sheet

#### Hersteller/Lieferant:

btf-Innovationen für den Bau GmbH  
Fahrenheitstr. 3  
D-86899 Landsberg am Lech  
Tel.: +49 (0)8191-940-40-0  
www.btf-innovationen.de

- **Responsible Department:**

btf-Innovationen für den Bau GmbH  
Tel.: +49 (0)8191-940-40-0  
e-Mail: info@btf-innovationen.de

### 1.4 Emergency telephone number:

In case of poisoning:

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to Regulation (EC) Nr. 1272/2008

Flammable liquids: Flam. Liq. 2 (H225)

Skin corrosion/irritation: Skin Irrit. 2 (H315)

Respiratory or skin sensitisation: Skin Sens. 1 (H317)

Specific target organ toxicity (single exposure): STOT SE 3 (H336)

Reproductive toxicity: Repr. 2 (H361d)

Specific target organ toxicity (repeated exposure): STOT RE 2 (H373)

Hazardous to the aquatic environment: Aquatic Chronic 2 (H411)

### 2.2 Label elements

#### Label elements according to Regulation (EC) Nr. 1272/2008 (CLP/GHS)

Hazard pictograms



GHS02 - Flame

GHS07 - Exclamation mark

GHS08 - Health hazard

GHS09 - Environment

#### Signal word

Danger

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**Product name:** **btf Perimeterdämmplattenkleber**

## Hazard-determining components of labelling:

Rosin, hydrocarbons C6-C7, toluene

## Hazard statements

H225 - Highly flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

H373 - May cause damage to organs through prolonged or repeated exposure.

H411 - Toxic to aquatic life with long lasting effects.

## Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P308+P313 - IF exposed or concerned: Get medical advice/attention.

P403+P235 - Store in a well-ventilated place. Keep cool.

## 2.3 Other hazards

In the case of a large-area processing of the product, ensure that there are no ignition sources such as e.g. welding devices, bells, heating plates, cooling cabinets, night storage furnaces, etc. in the further surroundings and in deeper-lying floors.

Prepare warning signs that warn of an explosive atmosphere.

## Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 3 Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture consisting of different substances

#### Hazardous ingredients:

CAS: 8050-09-7	rosin; colophony	25-50 %
EC-Nr. 232-475-7	Skin Sens. 1; H317	
Index-Nr. 650-015-00-7		
Reg.nr. 01-2119480418-32		
CAS: -	hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics,	20-30 %
EC-Nr. 921-024-6	<5% n-hexane	
Reg.nr. 01-2119475514-35	Flam. Liq. 2; H225; Asp. Tox 1; H304; Skin Irrit. 2; H315; STOT SE3; H336; Aquatic Chronic 2; H411	
CAS: 108-88-3	toluene	< 12.5 %
EC-Nr. 203-625-9	Flam. Liq. 2; H225; Asp. Tox. 1; H304; Skin Irrit. 2; H315; STOT SE 3; H336; Repr. 2; H361d; STOT RE 2; H373;	
Index-Nr. 601-021-00-3		
Reg.nr. 01-2119471310-51	Aquatic Chronic 3; H412	

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**Product name:** **btf Perimeterdämmplattenkleber**

CAS: 110-54-3	n-hexane	< 1 %
EC-Nr. 203-777-6	Flam. Liq. 2; H225; Asp. Tox. 1; H304; Skin Irrit. 2; H315;	
Index-Nr 601-037-00-0	STOT SE 3; H336; Repr. 2; H361f; STOT RE 2; H373;	
Reg.nr. 01-2119480412-44	Aquatic Chronic 2; H411; SML: STOT RE 2; H373: C ≥ 5 %	
CAS: 1314-13-2	zinc oxide	< 1 %
EC-Nr. 215-222-5	Aquatic Acute 1; H400 (M = 1)	
Index-Nr. 030-013-00-7	Aquatic Chronic 1; H410 (M = 1)	
Reg.nr. 01-2119463881-32		

## Additional information:

The wording of the listed risk phrases and hazard statements refer to section 16.

## 4 First aid measures

### 4.1 Description of first aid measures

#### · General information:

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

Never induce swallowing by an unconscious person.

Remove any clothing that has been contaminated with the product immediately.

#### · Inhalation:

Move to fresh air. If symptoms persist, call a physician.

In case of unconsciousness place patient stably in side position for transportation.

#### · Skin contact:

Remove immediately any soiled or splashed garment. Dab away using wadding or cellulose material then thoroughly wash the affected skin with a mild cleanser and water. Consult a doctor in case of persistent pain.

#### · Eye contact:

Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### · Ingestion:

Flush mouth with water, do not swallow, drink plenty of water.

Avoid vomiting. Seek medical advice immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Danger of breathing difficulties and suffocation. Narcotic effects.

Inadequacy of coordination and perception, reaction delay, drowsiness.

### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Firefighting measures

### 5.1 Extinguishing media

Suitable methods of extinction - In the event of a fire, use: sprayed water or water mist, foam, multipurpose ABC powder, BC powder, carbon dioxide (CO<sub>2</sub>)

Unsuitable methods of extinction - In the event of a fire, do not use: water jet

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:

Do not use a solid water stream as it may scatter and spread fire.

Exposure to decomposition products may be hazardous to health.

In the event of a fire, the following may be formed: carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), pyrolysis products.

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## 5.3 Advice for firefighters

### Special protective equipment:

In the case of fire wear self-contained breathing apparatus.

Use personal protective equipment.

### Further information

Standard procedure for chemical fires.

Adapt extinguishing measures to suit the environment.

Do not inhale explosion and/or combustion gases.

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

Dispose fire residues and contaminated fire-fighting water in accordance with official regulations.

Watch out for re-ignition. Risk of bursting of containers.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

Wear protective equipment. Keep ignition sources away. No smoking.

Avoid contact with eyes. Ensure adequate ventilation, especially in confined areas.

Evacuate personnel. Keep unprotected people away.

Do not inhale vapors or mists of this product.

Prevent accumulating vapors that may form explosive concentrations.

Vapours are heavier than air and may travel along the floor and collect in low areas.

### 6.2 Environmental precautions:

Avoid unnecessary release to the environment. Prevent any material from entering drains or

waterways. Prevent further leakage or spillage if possible without risk. In case of entry into

waterways, soil or drains, inform the responsible authorities.

### 6.3 Methods and material for containment and cleaning up:

Collect spillage. Absorb with noncombustible liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in approved containers for disposal in accordance with local/national regulations. Clean contaminated surface thoroughly. Ensure adequate ventilation.

### 6.4 Reference to other sections

Information regarding safe handling see chapter 7.

Information regarding personal protection see chapter 8.

Information regarding disposal see chapter 13.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Keep limited supplies at workplace. Ensure adequate ventilation, especially in confined areas.

Do not inhale vapors or mists of this product. Avoid contact with eyes and skin.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the workplace exposure limits.

Take precautionary measures against static discharges.

For personal protection see section 8.

### Fire prevention:

Usual measures of preventive fire protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not smoke. Take precautionary measures against static discharges. Vapours may form an explosive vapour-air mixture.

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## 7.2 Conditions for safe storage, including any incompatibilities

### · Storage

### · Requirements for storage rooms and vessels:

Store only in original container. Keep the container tightly closed and in a cool, dry, well-ventilated place. Official regulations on storing of flammable liquids must be observed!

### · Advice on common storage:

Keep away from food, drink and animal feedingstuffs.

Do not store together with oxidizing and self-igniting products.

### Further information about storage conditions:

Store in tightly closed containers in a cool, dry place.

Protect from heat and direct sunlight. Protect from frost.

Ensure adequate ventilation.

**Recommended storage temperature:** No data available

**Storage class:** 3, flammable liquids

## 7.3 Specific end use(s)

No further relevant information available.

## 8 Exposure controls/personal protection

### Additional information about design of technical facilities:

No further data; see item 7.

### 8.1 Control parameters

Occupational exposure limits		Exposure limit	ml/m <sup>3</sup>	mg/m <sup>3</sup>	Remarks
	Country				
8050-09-7 Rosin-based solder flux fume (colophony)	UK, WEL	TWA		0.05	8 h
		STEL		0.15	15 min
108-88-3 Toluene	EU	OEL	50	192	8 h
			100	384	15 min
	D, TRGS 900	AGW	50	190	4(II); DFG, EU, H, Y
		TWA	50	191	8 h
	UK, WEL	STEL	100	384	15 min
		VME	20	76,8	8 h
110-54-3 n-Hexane	F, INRS		100	384	15 min
	EU	OEL	20	72	8 h
		AGW	50	180	8(II), Y
	D, TRGS 900	TWA	20	72	8h
		VME	20	72	8h
1314-13-2 Zinc oxide (fume or respirable dust)	UK, WEL	TWA		5	8 h
		STEL		10	15 min
	F, INRS	VLE		5	8 h
Biological limits	Country	mg/l	Remarks		
108-88-3 Toluene	D, TRGS 903	0.6	Blood		
		0.075	Urine		
		1.5	Urine, end of shift/exposure o-Cresol (after Hydrolysis)		
110-54-3 n-Hexane	D, TRGS 903	5	2,5-Hexandione and 4,5-Dihydroxy-2-hexanone (after Hydrolysis), Urine, end of shift/exposure		

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## 8.2 Exposure controls / Personal protection:

The usual precautionary measures for contact with chemicals are to observe.  
Keep away from food, drink and animal feedingstuffs. Never eat, drink or smoke during use.  
Wash hands before breaks and after work. Take off immediately all contaminated clothing.  
Use personal protective equipment that is clean and has been properly maintained.  
Store personal protective equipment in a clean place, away from the work area.  
Remove and wash contaminated clothing before re-using.  
Ensure that there is adequate ventilation, especially in confined areas.

### Eye / face protection

Avoid contact with eyes. Use eye protectors designed to protect against liquid splashes.  
Before handling, wear safety goggles with protective sides accordance with standard EN166.

### Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact. Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.  
Gloves must be selected according to the application and duration of use at the workstation.  
Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- Fluorocarbon rubber (Viton), 0.7 mm

Breakthrough time (maximum period of use): 15 min.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

### Skin protection (other than of the hands)

Work clothing worn by personnel shall be laundered regularly.  
Flame-retardant and antistatic protective clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
After contact with the product, all parts of the body that have been soiled must be washed.

### Respiratory protection

Not necessary if room is well-ventilated.

If occupational exposure limits are exceeded, respiratory protection has to be worn.

Filter AX (DIN EN 371 / DIN EN 141 / DIN EN 143)

Self-contained breathing apparatus for emergencies.

### Thermal hazards

See section 7.

### Exposure controls regarding environmental protection

See section 6.2.

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form: liquid  
Colour: green

· Odour: solvent-like

· Smell Threshold: not determined

· pH: not determined

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· Change of state	
Melting point/range:	not relevant
Boiling point/range:	60 °C
· Flash point:	-30 °C
· Flammability (solid, gas):	not applicable
· Ignition temperature:	> 200 °C
· Thermal decomposition:	not relevant
· Autoinflammability:	Product is not selfigniting
· Explosion hazard:	Vapours may form explosive mixture with air.
· Explosion limits:	
Lower:	0.6 Vol.-%
Upper:	7.4 Vol.-%
· Vapour pressure at 20 °C:	246 hPa
· Density:	0.88 g/cm <sup>3</sup>
· Bulk density	not determined
· Vapour density	not determined
· Evaporation rate	not determined
· Solubility / miscibility	
Water:	insoluble
· Partition coefficient (n-Octanol/Water):	not determined
· Viscosity:	800 mPas (20 °C), Brookfield
· Oxidising properties	not determined
<b>9.2 Other information</b>	
VOC content:	40 %

## 10 Stability and reactivity

### 10.1 Reactivity

No further relevant information available.

### 10.2 Chemical stability

· **Thermal decomposition/ Conditions to be avoided:**

No decomposition if used according to specifications.

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid:

Sunlight. High temperatures.

Keep away from sources of ignition.

### 10.5 Incompatible materials:

Reactions with strong oxidizing agents.

### 10.6 Hazardous decomposition products:

None in case of intended use and storage in compliance with instructions.



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## 11 Toxicological information

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

#### Acute toxicity:

Based on available data, the classification criteria are not met.

#### LD/LC50 values relevant for classification:

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Oral	LD-50	>5840 mg/kg (Rat)
Dermal	LD-50	>2920 mg/kg (Rat)
Inhalation	LC-50	>25.2 mg/l (Rat, 4h)

##### 108-88-3 Toluene

Oral	LD-50	5000 mg/kg (Rat)
Dermal	LD-50	12124 mg/kg (Rabbit)
Inhalation	LC-50	5320 ppm (mus., 4h)

#### Skin corrosion/irritation:

Causes skin irritation.

#### Eye damage/irritation:

Based on available data, the classification criteria are not met.

#### Sensitisation, respiratory or skin:

Contains rosin. May produce an allergic reaction.

#### Carcinogenicity, germ cell mutagenicity, reproductive toxicity (CMR):

Suspected of damaging the unborn child.

#### Specific target organ toxicity (STOT), single/repeated exposure:

May cause drowsiness or dizziness.

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard:

Based on available data, the classification criteria are not met.

### 11.2. Information on other hazards

Inhalation of concentrated vapors as well as oral intake will lead to anesthesia-like conditions and headache, dizziness, etc.

## 12 Ecological information

### 12.1 Toxicity

#### Aquatic Toxicity:

Toxic to aquatic life with long lasting effects.

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

LL-50	11.4 mg/l (Fish (Oncorhynchus mykiss), 96 h), OECD 203
EL-50	3 mg/l (Daphnia Magna, 48h)
NOELR	2.045 mg/l (Fish (Oncorhynchus mykiss), 28 d), QSAR
NOELR	1 mg/l (Daphnia Magna, 21 d), OECD 211

### 12.2 Persistence and degradability

##### Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane

Readily biodegradable:

83 % (10 d), 98 % (28 d)



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### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

### 12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the criteria for PBT or vPvB.

### 12.6 Endocrine disrupting properties

No further relevant information available.

### 12.7 Other adverse effects

No further relevant information available.

#### Additional ecological information

Do not allow product to reach ground water, water course or sewage system.

Hazardous to water (WGK 2).

## 13 Disposal considerations

### 13.1 Waste treatment methods

#### Recommendation:

Must not be disposed together with household garbage. Do not empty into drains.

Must be supplied to an authorized hazardous waste incineration plant, after pretreatment, in accordance with regulations for special waste.

#### European waste catalog

The listed (n) waste number (s) according to the European Waste Catalogue (EWC), are a recommendation. A final decision must be taken in agreement with the regional waste management company.

Waste resulting from application:

08 04 09\* waste adhesives and sealants containing organic solvents or other hazardous substances

Waste resulting from cleaning:

08 04 11\* adhesive and sealant sludges containing organic solvents or other hazardous substances

Uncleaned packaging:

15 01 10\* packaging containing residues of or contaminated by hazardous substances

#### Uncleaned packaging:

**Recommendation:** Disposal according to official regulations.

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## 14 Transport information

- 14.1 UN number UN1133
- 14.2 UN proper shipping name  
 · ADR/RID, ADN ADHESIVES  
 · IMDG ADHESIVES  
 · ICAO/IATA ADHESIVES
- 14.3 Transport hazard class(es) 3, flammable liquids



- 14.4 Packing group II
- 14.5 Environmental hazards yes



- 14.6 Special precautions for user  
 Attention: Flammable liquid  
 Kemler number: 33  
 EmS F-E, S-D  
 Stowage Category B

- 14.7 Maritime transport in bulk according to IMO instruments  
 Not applicable.

## 15 Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- EU-Regulations**  
 REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 48
- National Regulations**  
 Employment restrictions concerning young persons must be observed.  
 Critical quantity values according to the regulations on accidents should be adhered to.  
**Germany: Wassergefährdungsklasse (WGK)**  
 hazardous to water (WGK 2) - self-classification
- 15.2 Chemical safety assessment:  
 A Chemical Safety Assessment has not been carried out.

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## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The product is only intended for commercial application.

### Revision notes

\* Changes since the last version

### Department issuing safety data sheet

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### Abbreviations

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

### Title for H and EUH indications (Number and text)

H225 - Highly flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H361d - Suspected of damaging the unborn child.

H361f - Suspected of damaging fertility.

H373 - May cause damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

H411 - Toxic to aquatic life with long lasting effects.

H412 - Harmful to aquatic life with long lasting effects.

### Methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 for the purpose of classification

Classification based on the components