

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

### 1.1. Product identifier

Name of product HF-KLEBER

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

#### Identified uses

#### Product categories [PC]

PC1 - Adhesives, sealants

#### Uses advised against

#### Remark

No data available

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

#### Manufacturer/distributor

TPH Bausysteme GmbH  
Nordportbogen 8, D-22848 Norderstedt  
Phone +49 (0)40 / 52 90 66 78-0, Fax +49 (0)40 / 52 90 66 78-78  
E-Mail [info@tph-bausysteme.com](mailto:info@tph-bausysteme.com)  
Internet [www.tph-bausysteme.com](http://www.tph-bausysteme.com)

#### Advice

E-mail (competent person):  
[sdb-info@tph-bausysteme.com](mailto:sdb-info@tph-bausysteme.com)

### 1.4. Emergency telephone number

#### Emergency advice

GIZ-Nord  
Phone +49 (0)551 / 19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Flam. Liq. 2	H225	
Eye Irrit. 2	H319	
STOT SE 3	H336	
Aquatic Chronic 2	H411	

#### Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

#### Hazard statements for health hazards

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

#### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

### Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS02



GHS07



GHS09

### Signal word

Danger

### Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

### Hazard statements for health hazards

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### Hazard statements for environmental hazards

H411 Toxic to aquatic life with long lasting effects.

### Precautionary Statements

#### Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
No smoking.  
P235 Keep cool.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.

#### Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P391 Collect spillage.

#### Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

### Hazardous ingredients for labeling

acetone, butanone, ethyl-acetate, Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane

### Supplemental Hazard information (EU)

#### Health properties

Repeated exposure may cause skin dryness or cracking.

### Special rules for supplemental label elements for certain mixtures

Contains colophony. May produce an allergic reaction.

### 2.3. Other hazards

#### Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/ information on ingredients

### 3.1. Substances

not applicable

### 3.2. Mixtures

#### Description

Adhesive, solvent-containing

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
67-64-1	200-662-2	acetone	10 < 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
78-93-3	201-159-0	butanone	1 < 5	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
141-78-6	205-500-4	ethyl-acetate	10 < 20	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336
8050-09-7	232-475-7	colophony	0,1 < 1	Skin Sens. 1, H317
92128-66-0	926-605-8	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane	> 25 < 40	Flam. Liq. 2, H225 / Asp. Tox. 1, H304 / STOT SE 3, H336 / Aquatic Chronic 2, H411
119-47-1	204-327-1	6,6'-di-tert-butyl-2,2'-methylendi-p-cresol	0,1 < 1	Repr. 2, H361

#### REACH

CAS No	Name	REACH registration number
92128-66-0	Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane	01-2119486291-36-xxxx
119-47-1	6,6'-di-tert-butyl-2,2'-methylendi-p-cresol	01-2119496065-33-XXXX

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated soaked clothing immediately.

Take affected person into fresh air.

#### In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

#### In case of skin contact

In case of contact with skin wash off immediately with soap and water.

#### In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

#### In case of ingestion

Call for a doctor immediately.

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

#### Physician's information / possible symptoms

Confusion

Dizziness

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**4.3. Indication of any immediate medical attention and special treatment needed**

**Treatment (Advice to doctor)**

Treat symptoms.

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**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

**Unsuitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of fire formation of harmful smoulder gas that may explode in air.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply.

Wear full protective clothing.

**Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Keep people away and stay on the upwind side.

Keep away sources of ignition.

**6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

Do not discharge into the subsoil/soil.

**6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

After taking up the material dispose according to regulation.

**Additional Information**

Informations for disposal see chapter 13.

**6.4. Reference to other sections**

No information available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

#### General protective measures

Do not inhale vapours.

Avoid contact with eyes and skin

#### Hygiene measures

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep separated from food and feed.

Wash hands before breaks and after work.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

Take precautionary measures against static discharges.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Advice on storage compatibility

Do not store together with food.

#### Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

**Storage group** 3

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

**Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)**

CAS No	Name	Code	[mg/m <sup>3</sup> ]	[ppm]	Remark
67-64-1	acetone	8 hours	1210	500	
78-93-3	butanone	8 hours	600	200	
		Short-term	900	300	

#### biological limits (TRGS 903)

CAS No	Name	Parameter	BGW	Examination material	Test date
67-64-1	acetone	Aceton	80 mg/l	U	b
78-93-3	2-Butanon (Methylethylketon)	2-Butanon	2 mg/l	U	b

### 8.2. Exposure controls

#### Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short term: filter apparatus, combination filter A-P3

#### Hand protection

Rubber gloves

Synthetic rubber gloves

PVC gloves  
Neoprene gloves

**Eye protection**  
tightly fitting goggles

**Other protection measures**  
protective clothing

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance**  
liquid

**Colour**  
clear

**Odour**  
solvent-like

**Odour threshold**  
not determined

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not applicable				
<b>Acid number</b>	not applicable				
<b>boiling point</b>	ca. 56 °C				
<b>melting range</b>	No data available				
<b>Flash point</b>	ca. -20 °C				
<b>Vapourisation rate</b>	No data available				
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	No information available.				
<b>Self ignition temperature</b>	No information available.				
<b>Lower explosion limit</b>	No data available				
<b>Upper explosion limit</b>	No data available				
<b>Vapour pressure</b>	No data available				
<b>Relative density</b>	ca. 0,9 g/cm3	23 °C		DIN EN ISO 2811-1	

	Value	Temperature	at	Method	Remark
<b>Bulk density</b>	not applicable				
<b>Vapour density</b>	No data available				
<b>Solubility in water</b>					insoluble
<b>Solubility/other</b>				not determined	
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	No data available				
<b>Viscosity dynamic</b>	ca. 4300 mPa*s	23 °C		DIN EN ISO 2555	
<b>Solvent separation test</b>	No information available.				
<b>Solvent content</b>	not determined				
<b>Water content</b>	not applicable				
<b>Solids content</b>	not determined				
<b>Combustion value</b>	No information available.				
<b>Oxidising properties</b>	No data available				
<b>Explosive properties</b>	No data available				
<b>9.2. Other information</b>	flammable liquid				

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

No information available.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

No hazardous reactions known.

### 10.5. Incompatible materials

#### Substances to avoid

No hazardous reactions known.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

### Thermal decomposition

Remark No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 16,5 g/kg	rat	OECD Guideline 201	
<b>LD50 acute dermal</b>	> 3,35 g/kg	rabbit	OECD 402	
<b>LC50 acute inhalation</b>	73680 ppm (4 h)	rat		
<b>Skin irritation</b>	non-irritant			
<b>Eye irritation</b>	non-irritant			
<b>Skin sensitization</b>	non-sensitizing			
<b>Sensitization respiratory system</b>	non-sensitizing			

#### Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
<b>Subacute Toxicity</b>	No information available.			
<b>Subchronic Toxicity</b>	No information available.			
<b>Chronic Toxicity</b>	No information available.			
<b>Mutagenicity</b>	No information available.			



	Value	Species	Method	Validation
<b>Reproduction-Toxicity</b>	No information available.			
<b>Carcinogenicity</b>	No information available.			
<b>Specific target organ toxicity (single exposure)</b>	No information available.			
<b>Specific target organ toxicity (repeated exposure)</b>	No information available.			
<b>Aspiration hazard</b>	No information available.			
<b>Experiences made from practice</b>	Irritates mucous membranes. Irritates eyes and skin.			
<b>Additional information</b>	The declarations of toxicology refer to main component.			

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LL50 12 mg/l (96 h)	Oncorhynchus mykiss	OECD 203	
<b>Daphnia</b>	No data available			
<b>Algae</b>	No data available			
<b>Bacteria</b>	No data available			

### 12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	No information available.			
<b>Biological degradability</b>	No information available.			
<b>Degradability</b>	No information available.			
<b>Biological eliminability</b>	No data available			
<b>Degradability according to WRMG</b>	No data available			

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

No data available

**Behaviour in sewage plant**

No information available.

**Respiration inhibition of activated sludge**

	Value	Method	Remark
<b>EC 50</b>	No data available		

**Additional ecological information**

	Value	Method	Remark
<b>OC</b>	No data available		
<b>COD</b>	No data available		
<b>BOD</b>	No data available		
<b>AOX</b>	not applicable		

**Contains following heavy metals and compounds of the 76/464/EWG**

no

**General regulation**

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

The information to ecology refers to main component.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Waste code No.**

08 04 09\*

**Name of waste**

waste adhesives and sealants containing organic solvents or other hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

**Recommendations for the product**

In accordance with regulations for special waste, must be taken to a special waste disposal.

**Recommendations for packaging**

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

Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	1133	1133	1133
<b>14.2. UN proper shipping name</b>	ADHESIVES (Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane)	ADHESIVES (Hydrocarbons, C6-C7, isoalkanes, cyclics, < 5 % n-hexane)	Adhesives (Hydrocarbons, C6- C7, isoalkanes, cyclics, < 5 % n- hexane)
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	No	No	No

### 14.6. Special precautions for user

No information available.

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

### Land and inland navigation transport ADR/RID

Hazard label(s) 3

tunnel restriction code D/E

Special provisions 640D

Classification code F1

## SECTION 15: Regulatory information

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

#### National regulations

#### Other regulations, restrictions and prohibition regulations

UVV "Processing of Adhesives" (VBG 81)

ZH 1/75.1 "Regulations of inflammable liquids"

MAL-Code: 4-3 (Denmark)

ZH 1/129 "Data Sheet: Irritating substances / corrosive substances (M 004)"

**Water hazard class** 2 Mixture-WGK

#### Technical instruction air

##### Class I

Anteil < 1 %

#### Decree for case of interference/remarks

No information available.

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**15.2. Chemical Safety Assessment**

No information available.

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**SECTION 16: Other information**

**Recommended uses and restrictions**

National and local regulations concerning chemicals shall be observed.

**Further information**

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 3.9

- H225 Highly flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H361 Suspected of damaging fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
- H411 Toxic to aquatic life with long lasting effects.