
! 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
 Internet www.tph-bausysteme.com

Advice

E-mail (competent person):
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]



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

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

Treatment (Advice to doctor)

Treat symptoms.

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.

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/m3] | [ppm] | Remark |
|---------|----------|-----------------------|------------|------------|--------|
| 67-64-1 | acetone | 8 hours | 1210 | 500 | |
| 78-93-3 | butanone | 8 hours Short-term | 600 900 | 200 300 | |

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 | Colour | Odour |
| liquid | clear | solvent-like |

Odour threshold
 not determined

Important health, safety and environmental information

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

| | Value | Temperature | at | Method | Remark |
|--|---------------------------|-------------|----|-----------------|-----------|
| Bulk density | not applicable | | | | |
| Vapour density | No data available | | | | |
| Solubility in water | | | | | insoluble |
| Solubility/other | | | | not determined | |
| Partition coefficient n-octanol/water (log P O/W) | not determined | | | | |
| Decomposition temperature | No data available | | | | |
| Viscosity dynamic | ca. 4300 mPa*s | 23 °C | | DIN EN ISO 2555 | |
| Solvent separation test | No information available. | | | | |
| Solvent content | not determined | | | | |
| Water content | not applicable | | | | |
| Solids content | not determined | | | | |
| Combustion value | No information available. | | | | |
| Oxidising properties | | | | | |
| No data available | | | | | |
| Explosive properties | | | | | |
| No data available | | | | | |
| 9.2. Other information | 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 |
|---|------------------|---------|--------------------|--------|
| LD50 acute oral | > 16,5 g/kg | rat | OECD Guideline 201 | |
| LD50 acute dermal | > 3,35 g/kg | rabbit | OECD 402 | |
| LC50 acute inhalation | 73680 ppm (4 h) | rat | | |
| Skin irritation | non-irritant | | | |
| Eye irritation | non-irritant | | | |
| Skin sensitization | non-sensitizing | | | |
| Sensitization respiratory system | non-sensitizing | | | |

Subacute Toxicity - Carcinogenicity

| | Value | Species | Method | Validation |
|----------------------------|---------------------------|---------|--------|------------|
| Subacute Toxicity | No information available. | | | |
| Subchronic Toxicity | No information available. | | | |
| Chronic Toxicity | No information available. | | | |
| Mutagenicity | No information available. | | | |

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

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

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

12.2. Persistence and degradability

| | Elimination rate | Method of analysis | Method | Validation |
|--|---------------------------|--------------------|--------|------------|
| Physico-chemical degradability | No information available. | | | |
| Biological degradability | No information available. | | | |
| Degradability | No information available. | | | |
| Biological eliminability | No data available | | | |
| Degradability according to WRMG | 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 |
|-------|-------------------|--------|--------|
| EC 50 | No data available | | |

Additional ecological information

| | Value | Method | Remark |
|-----|-------------------|--------|--------|
| OC | No data available | | |
| COD | No data available | | |
| BOD | No data available | | |
| AOX | not applicable | | |

Contains following heavy metals and compounds of the 76/464/EGW

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 |
|---|---|---|--|
| 14.1. UN number | 1133 | 1133 | 1133 |
| 14.2. UN proper shipping name | 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) |
| 14.3. Transport hazard class(es) | 3 | 3 | 3 |
| 14.4. Packing group | II | II | II |
| 14.5. Environmental hazards | 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.

15.2. Chemical Safety Assessment

No information available.

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.