

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 18.12.2019

Version number 5

Revision: 18.12.2019

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

- **1.1 Product identifier**
- **Trade name: Fermitac Kleber**
- **UFI:** S470-6029-D00S-RANV
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesives
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Fermit GmbH  
Zur Heide 4,  
D- 53560 Vettelschoß  
www.fermit.de
- **Informing department:**  
Tel.: +49 (0) 2645-2207  
Fax: +49 (0) 2645-3113  
Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

**SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02 GHS05 GHS07

- **Signal word** Danger

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**Trade name: Fermitac Kleber**

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- **Hazard-determining components of labelling:**

cyclohexanone  
butanone

- **Hazard statements**

H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / eye protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Labelling of packages where the contents do not exceed 125 ml**

- **Hazard pictograms**



GHS02 GHS05 GHS07

- **Signal word** Danger

- **Hazard-determining components of labelling:**

cyclohexanone  
butanone

- **Hazard statements**

H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.

- **Precautionary statements**

P102 Keep out of reach of children.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / eye protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of the substances listed below including additives not requiring identification.

- **Dangerous components:**

CAS: 78-93-3	butanone	50 - 100%
EINECS: 201-159-0	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT	
Reg.nr.: 01-2119457290-43-X	SE 3, H336	

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CAS: 108-94-1 EINECS: 203-631-1 Reg.nr.: 01-2119453616-35-X	cyclohexanone <ul style="list-style-type: none"> <li>⚠ Flam. Liq. 3, H226; ⚠ Eye Dam. 1, H318;</li> <li>⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315</li> </ul>	10 - 25%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-X	xylene, mixed isomers, pure <ul style="list-style-type: none"> <li>⚠ Flam. Liq. 3, H226; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335; Aquatic Chronic 3, H412</li> </ul>	≥ 2.5 - < 10%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information** Instantly remove any clothing contaminated by the product.
- **After inhalation**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
Remove contaminated clothing immediately.  
Wash intensively with water and soap. Use protective skin ointment.  
Wash contaminated clothing before re-use.
- **After eye contact**  
Keep eye lids open and rinse them with ample amounts of clean running water for at least 15 minutes.  
Seek medical treatment.
- **After swallowing**  
Rinse out mouth.  
Avoid vomiting. Don't give anything to drink. Immediately consult physician.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Carbon monoxide (CO)  
Formation of flammable mixtures of vapours with air possible.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Cool endangered containers with water spray.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.

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Keep away from sources of ignition and care for sufficient ventilation due to the content of organic solvents.

Do not inhale vapours.

· **6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

Inform respective authorities in case product reaches water or sewage system.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).

Dispose of contaminated material as waste according to section 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Prevent formation of aerosols.

Avoid contact with eyes, skin and clothes.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

Store cool and dry in well sealed containers.

Ensure sufficient ventilation.

· **Information about storage in one common storage facility:**

Keep away from food, drink and animal feeding stuffs.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.

· **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit

OEL: Occupational Exposure Limit

IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

**78-93-3 butanone**

WEL (Great Britain)

Short-term value: 899 mg/m<sup>3</sup>, 300 ppm

Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

Sk, BMGV

IOELV (European Union)

Short-term value: 900 mg/m<sup>3</sup>, 300 ppm

Long-term value: 600 mg/m<sup>3</sup>, 200 ppm

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**108-94-1 cyclohexanone**

WEL (Great Britain)	Short-term value: 82 mg/m <sup>3</sup> , 20 ppm Long-term value: 41 mg/m <sup>3</sup> , 10 ppm Sk, BMGV
IOELV (European Union)	Short-term value: 81.6 mg/m <sup>3</sup> , 20 ppm Long-term value: 40.8 mg/m <sup>3</sup> , 10 ppm Skin

**1330-20-7 xylene, mixed isomers, pure**

WEL (Great Britain)	Short-term value: 441 mg/m <sup>3</sup> , 100 ppm Long-term value: 220 mg/m <sup>3</sup> , 50 ppm Sk; BMGV
IOELV (European Union)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

**· DNELs****78-93-3 butanone**

Oral	DNEL (consumer, long-term, systemic)	31 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	1,161 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	412 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	600 mg/m <sup>3</sup> (human)
	DNEL (consumer, long-term, systemic)	106 mg/m <sup>3</sup> (human)

**· PNECs****78-93-3 butanone**

PNEC aqua (freshwater)	55.8 mg/L (.)
PNEC aqua (marine water)	55.8 mg/L (.)
PNEC STP	709 mg/L (.)
PNEC soil	22.5 mg/kg soil dw (.)
PNEC sediment (freshwater)	284.7 mg/kg sedim. dw (.)
PNEC sediment (marine water)	284.7 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	55.8 mg/L (.)
PNEC oral	1,000 mg/kg food (.)

**· Ingredients with biological limit values:****78-93-3 butanone**

BMGV (Great Britain)	70 µmol/L Medium: urine Sampling time: post shift Parameter: butan-2-one
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**108-94-1 cyclohexanone**

BMGV (Great Britain)	2 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: cyclohexanol
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**1330-20-7 xylene, mixed isomers, pure**

BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid
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**· Additional information:** The lists that were valid during the compilation were used as basis.

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- **8.2 Exposure controls**
  - **Personal protective equipment**
  - **General protective and hygienic measures**  
Wash hands always after use.  
Keep away from foodstuffs, beverages and food.  
Take off all contaminated clothing immediately.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
  - **Breathing equipment:**  
Not necessary if room is well-ventilated.  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.
  - **Protection of hands:**  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation  
There is no suitable material for protective gloves for this substance. The recommended protective glove has to be replaced often
  - **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
  - **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.  
Value for the permeation: Level = 2
  - **For the permanent contact gloves made of the following materials are suitable:**  
Butyl rubber, BR
  - **Eye protection:**
- 

Tightly sealed safety glasses.
- **Body protection:**  
Wear antistatic clothing made from natural fibres (cotton) or heat-resistant synthetic fibres.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	Viscous
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Aromatic
- **Change in condition**

<b>Melting point/freezing point:</b>	Not determined
<b>Initial boiling point and boiling range:</b>	> 35 °C
- **Flash point:** -10 °C
- **Ignition temperature:** 420 °C

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· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/steam mixtures is possible.
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	11.5 Vol %
· <b>Vapour pressure at 20 °C:</b>	110 - 175 hPa
· <b>Density at 20 °C</b>	< 1 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	Insoluble
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	3,000 - 75,000 mPas
<b>kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	
<b>VOC EU</b>	737.0 g/l
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 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** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** None at intended use.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:**

#### 78-93-3 butanone

Oral	LD50	3,460 mg/kg (rat) (OECD 423)
Dermal	LD50	5,000 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

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- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

#### · 12.1 Toxicity

##### · Aquatic toxicity:

##### 78-93-3 butanone

EC50 (static)	308 mg/l/48h (Daphnia magna) (OECD 202)
EC50 (static)	2,029 mg/l/96h (Pseudokirchneriella subcapitata) (OECD 201)
LC50 (static)	2,993 mg/l/96h (Pimephales promelas) (OECD 203)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
The waste code numbers mentioned are recommendations based on the probable use of the product.

##### · European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR/ADN, IMDG, IATA** UN1133
- **14.2 UN proper shipping name**
- **ADR/ADN** 1133 ADHESIVES

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· <b>IMDG, IATA</b>	ADHESIVES
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/ADN</b>	
	
· <b>Class</b>	3 (F1) Flammable liquids.
· <b>Label</b>	3
· <b>IMDG, IATA</b>	
	
· <b>Class</b>	3 Flammable liquids.
· <b>Label</b>	3
· <b>14.4 Packing group</b>	
· <b>ADR/ADN, IMDG, IATA</b>	III
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Kemler Number:</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	A
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR/ADN</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1133 ADHESIVES, 3, III

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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- **Seveso category** P5c FLAMMABLE LIQUIDS
  - **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t
  - **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t
  - **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
  - **National regulations**
  - **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.
  - **Substances of very high concern (SVHC) according to REACH, Article 57**
- |                                       |
|---------------------------------------|
| None of the ingredients is contained. |
|---------------------------------------|
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.  
 H312 Harmful in contact with skin.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:  
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,  
 phone: (+49) 511 42079 - 0, reach@dekra.com.  
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- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (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  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity - oral – Category 4  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- \* **Data compared to the previous version altered.**