

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

Printing date 16.09.2019

Version number 4

Revision: 16.09.2019

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

- **1.1 Product identifier**
- **Trade name: Fermitac Reiniger**
- **UFI:** D960-405A-A00T-4WU7
- **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** Cleaning material/ Detergent
- **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.



GHS07

Eye Irrit. 2 H319 Causes serious eye 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 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
acetone
butanone
- **Hazard statements**
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

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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.
 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.
 P310 Immediately call a POISON CENTER/doctor.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

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

GHS02 GHS07

Signal word Danger**Hazard-determining components of labelling:**acetone
butanone**Hazard statements**

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

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: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-X | acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 | 25 - 50% |
| CAS: 78-93-3 EINECS: 201-159-0 Reg.nr.: 01-2119457290-43-X | butanone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336 | 25 - 50% |

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 Remove contaminated clothing immediately.

After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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- In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**
Wash intensively with water and soap. Use protective skin ointment.
If skin irritation continues, consult a doctor.
 - **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** 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 form explosive gas-air mixtures.
During incomplete combustion carbon monoxide can be formed.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
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:**
Prevent material from reaching sewage system, holes and cellars.
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).
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 splashes or spray in enclosed areas.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.

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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

67-64-1 acetone

WEL (Great Britain) Short-term value: 3620 mg/m³, 1500 ppm

Long-term value: 1210 mg/m³, 500 ppm

IOELV (European Union) Long-term value: 1210 mg/m³, 500 ppm

78-93-3 butanone

WEL (Great Britain) Short-term value: 899 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

Sk, BMGV

IOELV (European Union) Short-term value: 900 mg/m³, 300 ppm

Long-term value: 600 mg/m³, 200 ppm

· **DNELs**

67-64-1 acetone

Oral DNEL (consumer, long-term, systemic) 62 mg/kg bw/day (human)

Dermal DNEL (worker, long-term, systemic) 186 mg/kg bw/day (human)

Inhalative DNEL (consumer, long-term, systemic) 62 mg/kg bw/day (human)

DNEL (worker, long-term, systemic) 1,210 mg/m³ (human)

DNEL (consumer, long-term, systemic) 200 mg/m³ (human)

DNEL (worker, short-term, local) 2,420 mg/m³ (human)

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)

Inhalative DNEL (consumer, long-term, systemic) 412 mg/kg bw/day (human)

DNEL (worker, long-term, systemic) 600 mg/m³ (human)

DNEL (consumer, long-term, systemic) 106 mg/m³ (human)

· **PNECs**

67-64-1 acetone

PNEC aqua (freshwater) 10.6 mg/L (.)

PNEC aqua (marine water) 1.06 mg/L (.)

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| | |
|-----------------------------------|--------------------------|
| PNEC STP | 100 mg/L (.) |
| PNEC soil | 29.5 mg/kg soil dw (.) |
| PNEC sediment (freshwater) | 30.4 mg/kg sedim. dw (.) |
| PNEC sediment (marine water) | 3.04 mg/kg sedim. dw (.) |
| PNEC aqua (intermittent releases) | 21 mg/L (.) |

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 |
|----------------------|---|

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**· **Personal protective equipment**· **General protective and hygienic measures**

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:**

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:**

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

· **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.

Butyl rubber, BR

· **Penetration time of glove material**

Value for the permeation: Level = 5

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact gloves made of the following materials are suitable:**

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· Eye protection:


Tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties
· General Information
· Appearance:

| | |
|----------------|------------|
| Form: | Fluid |
| Colour: | Colourless |
| Odour: | Pleasant |

· Change in condition

| | |
|---|---------|
| Melting point/freezing point: | -10 °C |
| Initial boiling point and boiling range: | > 35 °C |

· Flash point: - 10 °C

· Ignition temperature: 404 °C

· Explosive properties: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

· Critical values for explosion:

| | |
|---------------|-----------|
| Lower: | 1.8 Vol % |
| Upper: | 13 Vol % |

· Vapour pressure at 20 °C: 240 hPa

· Density at 20 °C 0.8 g/cm³
· Solubility in / Miscibility with Water:

Partly miscible

· Viscosity:

| | |
|-------------------|-----------------|
| dynamic: | Not determined. |
| kinematic: | Not determined. |

· Solvent content:
· Organic solvents:
VOC EU 795 g/l

· 9.2 Other information

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 in case of intended use and storage in compliance with instructions.

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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:

67-64-1 acetone

| | | |
|------------|------|--|
| Oral | LD50 | 5,800 mg/kg (rat) |
| Dermal | LD50 | > 7,426 mg/kg (guinea pig) (21 CFR 191.10) > 7,426 mg/kg (rabbit) (21 CFR 191.10) |
| Inhalative | LC50 | 132 mg/l/3h (rat) |

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 redipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.

· Serious eye damage/irritation

Causes serious eye irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· Repeated dose toxicity

67-64-1 acetone

| | | |
|------|-------------|-------------------------------------|
| Oral | NOAEL (90d) | 3,100 mg/kg bw/day (rat) (OECD 408) |
|------|-------------|-------------------------------------|

· CMR effects (carcinogenicity, 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.

· 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:

67-64-1 acetone

| | |
|----------------|---|
| EC50 | > 10,000 mg/l/24h (Daphnia magna) |
| LC50 (dynamic) | 8,120 mg/l/96h (Pimephales promelas) (OECD 203) |

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 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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- **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**

| | |
|-----------|---|
| 11 00 00 | WASTES FROM CHEMICAL SURFACE TREATMENT AND COATING OF METALS AND OTHER MATERIALS; NON-FERROUS HYDRO-METALLURGY |
| 11 01 00 | wastes from chemical surface treatment and coating of metals and other materials (for example galvanic processes, zinc coating processes, pickling processes, etching, phosphating, alkaline degreasing, anodising) |
| 11 01 13* | degreasing wastes containing hazardous substances |
| HP 3 | Flammable |
| HP 4 | Irritant - skin irritation and eye damage |
| HP 5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |

- **Uncleaned packagings:**
- **Recommendation:**
Dispose of packaging according to regulations on the disposal of packagings.
Packaging can be reused or recycled after cleaning.
Cleaned packing materials have to be admitted to local recycling circuits.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR/ADN, IMDG, IATA** UN1993
- **14.2 UN proper shipping name**
- **ADR/ADN** 1993 FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), special provision 640D
- **IMDG, IATA** FLAMMABLE LIQUID, N.O.S. (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE))
- **14.3 Transport hazard class(es)**
- **ADR/ADN**
- **Class** 3 (F1) Flammable liquids.



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| | |
|---|--|
| · Label | 3 |
| · IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR/ADN, IMDG, IATA | II |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | |
| · Warning: | Warning: Flammable liquids. |
| · Kemler Number: | 33 |
| · EMS Number: | F-E, <u>S-E</u> |
| · Stowage Category | B |
| · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code | |
| Not applicable. | |
| · Transport/Additional information: | |
| · ADR/ADN | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · Transport category | |
| · Tunnel restriction code | 2 D/E |
| · IMDG | |
| · Limited quantities (LQ) | 1L |
| · Excepted quantities (EQ) | Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml |
| · UN "Model Regulation": | UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (ACETONE, ETHYL METHYL KETONE (METHYL ETHYL KETONE)), 3, II |

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.
- **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 1 (Self-assessment): slightly hazardous for water.

· **Substances of very high concern (SVHC) according to REACH, Article 57**

None of the ingredients is contained.

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- **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.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

- **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,

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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

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

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

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