

Tetrahydrofuran (THF) HPLC > 99.8 % isocratic grade unstabilized

Revision date: 27.07.2021

Product code: 19223

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

1.1. Product identifier

Tetrahydrofuran (THF) HPLC > 99.8 % isocratic grade unstabilized

REACH Registration Number: 01-2119444314-46-XXXX
CAS No: 109-99-9
Index No: 603-025-00-0
EC No: 203-726-8

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

Use of the substance/mixture

Laboratory chemicals
Industrial uses: Uses of substances as such or in preparations at industrial sites
Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Uses advised against

Do not use for private purposes (household).

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---------------------------------|------------------------------|
| Company name: | Fa. Bernd Kraft GmbH | |
| Street: | Stempelstraße 6 | |
| Place: | D-47167 Duisburg | |
| Telephone: | 0203/5194-0 | Telefax: 0203/5194-290 |
| e-mail: | info@berndkraft.de | |
| Contact person: | Abteilung Produktsicherheit | Telephone: 0203/5194-107/117 |
| e-mail: | produktsicherheit@berndkraft.de | |
| Internet: | www.berndkraft.de | |
| Responsible Department: | Abteilung Produktsicherheit | |

1.4. Emergency telephone number:

For Hazardous Materials [or Dangerous Goods] Incidents Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-741-5970 (collect calls accepted)

Further Information

No data available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 2; H225
Carc. 2; H351
Acute Tox. 4; H302
Eye Irrit. 2; H319
STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Signal word: Danger

Pictograms:



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Hazard statements

| | |
|------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |

Precautionary statements

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P240 | Ground and bond container and receiving equipment. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308+P313 | IF exposed or concerned: Get medical advice/attention. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

Special labelling of certain mixtures

| | |
|--------|-------------------------------|
| EUH019 | May form explosive peroxides. |
|--------|-------------------------------|

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

| | |
|-------------------|---------------------------------|
| Sum formula: | C ₄ H ₈ O |
| Molecular weight: | 72,11 g/mol |

Hazardous components

| CAS No | Chemical name | | | Quantity |
|----------|--|--------------|-----------------------|----------|
| | EC No | Index No | REACH No | |
| | Classification (Regulation (EC) No 1272/2008) | | | |
| 109-99-9 | tetrahydrofuran | | | 100 % |
| | 203-726-8 | 603-025-00-0 | 01-2119444314-46-XXXX | |
| | Flam. Liq. 2, Carc. 2, Acute Tox. 4, Eye Irrit. 2, STOT SE 3; H225 H351 H302 H319 H335 EUH019 | | | |

Full text of H and EUH statements: see section 16.

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|----------|-----------|---|----------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 109-99-9 | 203-726-8 | tetrahydrofuran | 100 % |
| | | dermal: LD50 = > 2000 mg/kg; oral: LD50 = 1,65 mg/kg Eye Irrit. 2; H319: >= 25 - 100 STOT SE 3; H335: >= 25 - 100 | |

Further Information

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of = 0.1 % (w/w).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

No data available

After inhalation

Provide fresh air.

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Call a physician immediately.

After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

After ingestion

Rinse mouth immediately and drink plenty of water.

Call a physician immediately.

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

Irritant

Cough

Dyspnoea

Narcotic effects

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

No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

no restriction

5.2. Special hazards arising from the substance or mixture

Combustible liquids

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

Beware of reignition.

Hazardous combustion products

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Avoid contact with skin, eyes and clothes.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

Move undamaged containers from immediate hazard area if it can be done safely.

Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking.

This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

Take action to prevent static discharges.

For non-emergency personnel

Provide adequate ventilation.

Use personal protection equipment.

Avoid contact with skin, eyes and clothes.

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Remove persons to safety.
Emergency procedures
Do not breathe dust/fume/gas/mist/vapours/spray.

For emergency responders

Precautionary statements For emergency responders : Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.
Danger of explosion

6.3. Methods and material for containment and cleaning up

For containment

Cover drains.
Prevent spread over a wide area (e.g. by containment or oil barriers).
Collect in closed and suitable containers for disposal.
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up

Clean contaminated articles and floor according to the environmental legislation.

Other information

Provide adequate ventilation.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid exposure - obtain special instructions before use.
Read label before use. Handle and open container with care.
When using do not eat, drink, smoke, sniff. Keep container tightly closed.
Use personal protection equipment. Use extractor hood (laboratory).
Do not breathe vapour/aerosol. Provide adequate ventilation.

Advice on protection against fire and explosion

Take action to prevent static discharges.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.
Wash hands and face before breaks and after work and take a shower if necessary.
When using do not eat or drink.
Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

Further information on handling

Take off immediately all contaminated clothing and wash it before reuse.
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. If handled uncovered, arrangements with local exhaust ventilation have to be used.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.
Store in a cool dry place.

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

Further information on storage conditions

Protect from sunlight.

Protect against: Light

minimum storage temperature +5°C

maximum storage temperature +30°C

7.3. Specific end use(s)

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

| CAS No | Substance | ppm | mg/m ³ | fib/cm ³ | Category | Origin |
|----------|-----------------|-----|-------------------|---------------------|---------------|--------|
| 109-99-9 | Tetrahydrofuran | 50 | 150 | | TWA (8 h) | |
| | | 100 | 300 | | STEL (15 min) | |

Biological limit values

| CAS No | Substance | Parameter | Value | Test material | Sampling time |
|----------|-----------------|-----------|--------|---------------|---------------|
| 109-99-9 | Tetrahydrofuran | THF | 2 mg/L | Urine | End of shift |

DNEL/DMEL values

| CAS No | Substance | | | |
|--------------------------|-----------------|--|----------|------------------------|
| DNEL type | Exposure route | | Effect | Value |
| 109-99-9 | tetrahydrofuran | | | |
| Worker DNEL, long-term | inhalation | | systemic | 72,4 mg/m ³ |
| Worker DNEL, acute | inhalation | | systemic | 96 mg/m ³ |
| Worker DNEL, long-term | inhalation | | local | 150 mg/m ³ |
| Worker DNEL, acute | inhalation | | local | 300 mg/m ³ |
| Worker DNEL, long-term | dermal | | systemic | 12,6 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | | systemic | 13 mg/m ³ |
| Consumer DNEL, acute | inhalation | | systemic | 52 mg/m ³ |
| Consumer DNEL, long-term | inhalation | | local | 75 mg/m ³ |
| Consumer DNEL, acute | inhalation | | local | 150 mg/m ³ |
| Consumer DNEL, long-term | dermal | | systemic | 1,5 mg/kg bw/day |
| Consumer DNEL, long-term | oral | | systemic | 1,5 mg/kg bw/day |

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PNEC values

| CAS No | Substance | |
|--|-----------------|------------|
| Environmental compartment | | Value |
| 109-99-9 | tetrahydrofuran | |
| Freshwater | | 4,32 mg/l |
| Freshwater (intermittent releases) | | 21,6 mg/l |
| Marine water | | 0,432 mg/l |
| Freshwater sediment | | 23,3 mg/kg |
| Marine sediment | | 2,33 mg/kg |
| Secondary poisoning | | 67 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 4,6 mg/l |
| Soil | | 2,13 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment.

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Individual protection measures, such as personal protective equipment

Eye/face protection

goggles

Face protection umbrella

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Protective gloves are recommended Company KCL GmbH, D-36124 Eichenzell, email: vertrieb@kcl.de With specification (test according to EN374):

By long-term hand contact: No data available

By short-term hand contact

Trade name/designation: KCL 890 Vitoject®

Suitable material: FKM (fluoro rubber) 0,7 mm

Wearing time with occasional contact (splashes): > 10 min

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types. This recommendation applies only to the product stated in the safety data sheet<(>, <(>) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Skin protection

Wear fire resistant or flame retardant clothing.

Take off immediately all contaminated clothing and wash it before reuse.

Wear suitable protective clothing. Take off immediately all contaminated clothing.

Wash hands and face before breaks and after work and take a shower if necessary.

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Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.
Filtering device with filter or ventilator filtering device of type: A

Environmental exposure controls

Do not allow to enter into surface water or drains.
Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches.
Danger of explosion

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------|-------------|
| Physical state: | Liquid |
| Colour: | colourless |
| Odour: | like: Ether |

Test method

Changes in the physical state

| | |
|---|-------------------|
| Melting point/freezing point: | -108,5 °C |
| Boiling point or initial boiling point and boiling range: | 65-66 °C |
| Sublimation point: | No data available |
| Softening point: | No data available |
| Pour point: | No data available |
| : | No data available |
| Flash point: | -21,5 °C |

Flammability

| | |
|---------------|-------------------|
| Solid/liquid: | No data available |
| Gas: | No data available |

Explosive properties

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

| | |
|----------------------------|-------------|
| Lower explosion limits: | 1,5 vol. % |
| Upper explosion limits: | 12,4 vol. % |
| Auto-ignition temperature: | 215 °C |

Self-ignition temperature

| | | |
|------------------------------------|-------------------|-------|
| Solid: | No data available | 215°C |
| Gas: | No data available | |
| Decomposition temperature: | No data available | |
| pH-Value (at 20 °C): | 7-8 (200 g/l) | |
| Viscosity / dynamic: (at 20 °C) | 0,48 mPa·s | |
| Viscosity / kinematic: | No data available | |
| Flow time: | No data available | |
| Water solubility: | easily soluble | |

Solubility in other solvents

No data available

| | |
|--|-----------------------|
| Partition coefficient n-octanol/water: | log Pow: 0,45 (25 °C) |
| Vapour pressure: (at 20 °C) | 173 hPa |

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| | |
|--------------------------|------------------------|
| Density (at 20 °C): | 0,89 g/cm ³ |
| Bulk density: | No data available |
| Relative vapour density: | No data available |

9.2. Other information

Information with regard to physical hazard classes

| | |
|------------------------|-----------------------|
| Sustaining combustion: | Sustaining combustion |
| Oxidizing properties | |
| No data available | |

Other safety characteristics

| | |
|--------------------------|-------------------|
| Solvent separation test: | No data available |
| Solvent content: | No data available |
| Solid content: | No data available |
| Evaporation rate: | No data available |

Further Information

May form explosive peroxides.

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air.
Formation of: Peroxides

10.2. Chemical stability

Protect against:
Light
Air

10.3. Possibility of hazardous reactions

Bromine
Oxidising agent
Oxygen
Acids
Peroxides
alkali hydroxides
hydrides, potassium
thionyl chloride, halides
titanium tetrachloride

10.4. Conditions to avoid

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

10.5. Incompatible materials

Rubber articles
Plastic articles
tin

10.6. Hazardous decomposition products

Peroxides
In case of fire:
SECTION 5: Firefighting measures

Further information

Peroxides

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SECTION 11: Toxicological information

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

Toxicokinetics, metabolism and distribution

Avoid exposure - obtain special instructions before use.

Acute toxicity

Harmful if swallowed.

| CAS No | Chemical name | | | | |
|----------|-----------------|-------------------|---------|---------------------|--|
| | Exposure route | Dose | Species | Source | Method |
| 109-99-9 | tetrahydrofuran | | | | |
| | oral | LD50 1,65 mg/kg | Rat | Study report (1978) | Conducted according to a published proce |
| | dermal | LD50 > 2000 mg/kg | Rat | Study report (2009) | OECD Guideline 402 |

Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer. (tetrahydrofuran)

Germ cell mutagenicity: 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 respiratory irritation. (tetrahydrofuran)

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.

Specific effects in experiment on an animal

No data available

Additional information on tests

No data available

Practical experience

No data available

11.2. Information on other hazards

Other information

No data available

Further information

Irritant

Cough

Dyspnoea

Narcotic effects

SECTION 12: Ecological information

12.1. Toxicity

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| CAS No | Chemical name | | | | | |
|----------|---------------------|--------------|-----------|---------|---------------------|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 109-99-9 | tetrahydrofuran | | | | | |
| | Acute fish toxicity | LC50 mg/l | 2160 | 96 h | Pimephales promelas | Center for Lake Superior Environmental S |
| | Fish toxicity | NOEC | 216 mg/l | 33 d | Pimephales promelas | Environmental toxicology and chemistry 4 |
| | | | | | | OECD Guideline 203 |
| | | | | | | Effect on hatching rate, survival and gr |

12.2. Persistence and degradability

39 %; 28 d; aerob

OECD-301D

Not readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|----------|-----------------|---------|
| 109-99-9 | tetrahydrofuran | 0,45 |

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

Avoid release to the environment.

Further information

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Send to a physico-chemical treatment facility under observation of official regulations.

Do not mix with other wastes.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)

| | |
|--|-----------------|
| 14.1. UN number or ID number: | UN 2056 |
| 14.2. UN proper shipping name: | TETRAHYDROFURAN |
| 14.3. Transport hazard class(es): | 3 |
| 14.4. Packing group: | II |
| Hazard label: | 3 |

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Classification code: F1
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 33
Tunnel restriction code: D/E

Inland waterways transport (ADN)

14.1. UN number or ID number: UN 2056
14.2. UN proper shipping name: TETRAHYDROFURAN
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3
Classification code: F1
Limited quantity: 1 L
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number or ID number: UN 2056
14.2. UN proper shipping name: TETRAHYDROFURAN
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3
Special Provisions: -
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 2056
14.2. UN proper shipping name: TETRAHYDROFURAN
14.3. Transport hazard class(es): 3
14.4. Packing group: II
Hazard label: 3
Limited quantity Passenger: 1 L
Passenger LQ: Y341
Excepted quantity: E2
IATA-packing instructions - Passenger: 353
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 364
IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 75

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

National regulatory information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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| | |
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| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. |
| Water hazard class (D): | 1 - slightly hazardous to water |

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15.

Relevant H and EUH statements (number and full text)

| | |
|--------|-------------------------------------|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| EUH019 | May form explosive peroxides. |

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material. The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.