

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Print date: 21.03.2016

Revision date:

Valid from: 21.03.2016

Version: 2

Replaces version: 1

KAIFLEX® Cleaner

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

1.1 Product identifier

Substances / Trade name / designation: Kaiflex Cleaner

Index No.: not applicable

EC No.: not applicable

CAS No.: not applicable

REACH Registration No.: not applicable

Other means of identification: None

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

Relevant identified uses:

Cleaner / solvent

Uses advised against:

Not applicable

1.3 Details of the supplier of the safety data sheet

Supplier

Kaimann GmbH

Address

Hansastraße 2-5

D-33161 Hövelhof

Information contact

Kaimann GmbH - Technik

Phone / Fax / E-Mail (competent person)

+49 (0) 5257-9850-0 / +49 (0) 5257-9850-590/ E-Mail: msds@kaimann.de

1.4 Emergency telephone number

Advice Center for Poison Symptoms and Embryo Toxicology (Emergency Phone Line Berlin / Giftnotruf Berlin)

Tel.: +49 (0) 30 -1 92 40 · www.giftnotruf.de

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to (EC) No. 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label elements

Hazard pictograms according to (EC) No. 1272/2008

Pictogram:



Signal word: **Danger**

Hazard components for labeling

Ethyl acetate

Butanone

Hazard statements:

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves and protective clothing.
P302 + P352 IF ON SKIN (or hair): Wash with plenty of soap and water.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P314 Get medical advice/attention if you feel unwell.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P370 + P378 In case of fire: Use for extinction: CO₂, powder or water spray.
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.

Supplemental hazard information (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

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2.3 Other hazards

Not applicable
PBT: not applicable
vPvB: not applicable

SECTION 3: Composition / information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Substance name

ETHYL ACETATE	Reg.nr. (EG): 01-2119475103-46 Index-Nr. 607-022-00-5 EINECS: 205-500-4 CAS-Nr.: 141-78-6 Percentage: 50- < 100% Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
BUTANONE	Reg.nr. (EG): 01-2119457290-43 Index-Nr. 606-002-00-3 EINECS: 201-159-0 CAS-Nr. 78-93-3 Percentage: 12,5 - 20 % Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
HEPTANE, ISOMERIC	Reg.nr. (EG): 01-2119475515-33-xxxx CAS-Nr. 64742-49-0 Percentage: 2,5 - 5 % Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic. 2 ; H411; Skin. Irrit.2, H315; STOT SE 3, H336
HYDROCARBONS, C6, ISOALKANES, <5% HEXANE	Reg.nr. (EG): 01-2119484651-34-xxxx EG-Nr. 931-254-9 CAS-Nr. 64742-49-0 Percentage: 2,5 - 5 % Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic. 2, H411; Skin. Irrit.2, H315; STOT SE 3, H336

(Full text of R-, H- and EUH-phrases: see section 16)

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration. In case of respiratory tract irritation, consult a physician.

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Following skin contact

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water.

Following eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Keep victim calm. Do NOT induce vomiting medical advice immediately. If medical advice is needed, have product container or label at hand.

4.2 Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)
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.
Inhaling hazardous decomposing products can cause serious health damage.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus.
Do not inhale explosion gases or combustion gases.
Cool closed containers that are near the source of the fire.
Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

6.2 Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculite, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleaning agents. Do not use solvents. Provide adequate ventilation.

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Store in cool, dry place in tightly closed containers.
Ensure good ventilation/extraction system at the workplace.
Open and handle container with care.
Vapours are heavier than air.
Vapours form explosive mixtures with air.

Fire preventions

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Use only in explosion-proof area.
Highly volatile, flammable constituents are released during processing.
Fumes can combine with air to form an explosive mixture.
Flammable mixtures may be formed in empty containers.

Aerosol and dust generation preventions

Not applicable.

Environmental precautions

Not applicable.

Advice on general occupational hygiene

Not applicable.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.
Keep container tightly sealed.
Store in cool, dry conditions in well-sealed containers in an upright position.

Requirements for storage rooms and vessels

Store in well ventilated and dry place at 15 °C to 30 °C. Protect from heat and sunlight. Remove any source of ignition. Do not smoke. Enable access to authorized personnel only.

Storage class: 3

7.3 Specific end uses

See technical data sheet, installation guide and label

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with critical values that require monitoring in the workplace

Occupational exposure limit values

BUTANONE	WEL, TWA: 600 mg/m ³ ; 200 ppm
INDEX No. 606-002-00-3	WEL, STEL: 899 mg/m ³ ; 300 ppm
EC No. 201-159-0	
CAS No. 78-93-3	

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ETHYL ACETATE
INDEX No. 607-022-00-5
EC No. 205-500-4
CAS No. 141-78-6
CYCLOHEXANE
INDEX No. 601-017-00-1
EC No. 203-806-2
CAS No. 110-82-7

WEL, TWA: 730 mg/m³; 200 ppm
WEL, STEL: 1460 mg/m³; 400 ppm

WEL, TWA: 350 mg/m³; 100 ppm
WEL, STEL: 1050 mg/m³; 300 ppm

Additional information

TWA: long-term occupational exposure limit value
STEL: short-term occupational exposure limit value

Derived no-effect level (DNELs) worker

ETHYL ACETATE
(CAS-Nr. 141-78-6)

Dermal:
DNEL w 63 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL w 1468 mg/m³ (acute, local effects)
DNEL w 1468 mg/m³ (acute, systemic effects)
DNEL w 734 mg/m³ (Long-term, local effects)
DNEL w 734 mg/m³ (Long-term, systemic effects)

BUTANONE
(CAS-Nr. 78-93-3)

Dermal:
DNEL w 1161 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL w: 600 mg/m³ (acute, systemic effects)

HEPTANE, ISOMERIC
(CAS-Nr. 64742-49-0)

Inhalative:
DNEL w 2085 mg/m³ (acute, systemic effects)

Derived no-effect level (DNELs) consumer

ETHYL ACETATE
(CAS-Nr. 141-78-6)

Oral:
DNEL c 4,5 mg/kg bw/day (Long-term, systemic effects)
Dermal:
DNEL c 37 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL c 734 mg/m³ (acute, local effects)
DNEL c 734 mg/m³ (acute, systemic effects)
DNEL c 367 mg/m³ (Long-term, local effects)
DNEL c 367 mg/m³ (Long-term, systemic effects)

BUTANONE
(CAS-Nr. 78-93-3)

Oral:
DNEL c 31 mg/kg bw/day (Long-term, systemic effects)
Dermal:
DNEL c 412 mg/kg bw/day (short-term, local effects)
Inhalative:
DNEL c 106 mg/m³ (acute, systemic effects)

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HEPTANE, ISOMERIC
(CAS-Nr. 64742-49-0)

Oral:
DNEL c 149 mg/kg bw/day (short-term, systemic effects)
Dermal:
DNEL c 149 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL c 477 mg/m³ (Long-term, local effects)

Predicted no-effect concentration (PNEC)

ETHYL ACETATE
(CAS-Nr. 141-78-6)

Oral:
PNEC oral 0,2 mg/kg food (n.a.)
PNEC sediment 1,25 mg/kg (Sediment, Freshwater)
PNEC sediment 0,125 mg/kg (Sediment, Marine water)
PNEC soil 0,24 mg/kg (Soil)
PNEC water 0,26 mg/l (Freshwater)
PNEC water 1,65 mg/l (intermittent release)
PNEC water 0,026 mg/l (Marine water)
PNEC water 650 mg/l (sewage treatment plant)

BUTANONE
(CAS-Nr. 78-93-3)

PNEC soil 22,5 mg/kg (Soil)
PNEC water 55,8 mg/l (Freshwater)
PNEC water 55,8 mg/l (Marine water)
PNEC water 55,8 mg/l (intermittent release)
PNEC water 709 mg/l (sewage treatment plant)
PNEC Secondary Poisoning: 1000 mg/kg

8.2 Exposure controls

Appropriate engineering controls

No further data; see section 7

Personal protective equipment

Standard precautionary measures for handling chemicals are to be observed.

Keep away from food, beverages and animal feed.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Eye / Face protection

Tightly sealed safety glasses (EN 166).

Skin protection

Hand protection

Material of gloves: Impervious gloves (EN 374).

Recommended thickness of the material: $\geq 0,7$ mm

For permanent contact gloves made of the following materials are suitable: NBR gloves, laminate gloves

For permanent contact of max. 15 minutes, gloves made of the following materials are suitable: laminate gloves

To protect against splashing, gloves made of the following materials are suitable: Nitrile rubber (NBR)

Not suitable are gloves made of the following materials: Leather gloves, strong gloves

Other skin protection measures

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Not required.

Respiratory protection

Use breathing protection in case of insufficient ventilation (EN 149).

Filter AX (boiling point < 61 °C); Filter A (boiling point > 60 °C).

Only when applied by spray methods, if no adequate extraction system is in place (EN 149).

Filter A/P2

Thermal hazards

Not applicable.

Environmental exposure controls

Do not allow to enter into surface water or drains. No further data; see section 7

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

- Form: liquid
- Colour: colourless-yellowish

Smell: typical (solvent)

Odour threshold: Not determined.

pH value: Not determined.

Melting point/freezing point: Not determined.

Initial boiling point/boiling range: 60 °C

Flash point: - 4 °C

Evaporation rate: Not determined.

Flammability (solid, gas): Not applicable
ignition may start at 200 °C

Vapour pressure: 92,65 hPa bei 20 °C

Vapour density: Not determined.

Relative density: 0,87 g/cm³ at 20 °C

Solubility(ies): Partially miscible or difficult to mix with water

Verteilungskoeffizient: Not determined.

n-Octanol/Wasser:

Auto-ignition temperature: Product does not undergo spontaneous combustion.

Decomposition temperature: Not determined.

Viskosität: 0.44 mPas dyn. at 20 °C

Upper/lower flammability or explosive limits: Lower explosive limits ca. 0.6 Vol.-%.

Upper explosive limits ca. 11,5 Vol.-%.

Oxidising properties: Not determined.

Maximum level of VOC: 100 %

9.2 Other information

Fumes can combine with air to form an explosive mixture.

SECTION 10: Stability and reactivity

10.1 Reactivity

Product is not reactive if used according to specifications.

10.2 Chemical stability

No decomposition if used according to specifications.

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10.3 Possibility of hazardous reactions

Forms explosive gas mixture with air.
Used empty containers may contain product gases which form explosive mixtures with air.
Keep away from strong acids, strong alkali and oxidizing agents to prevent exothermic reactions.

10.4 Conditions to avoid

Use product only in conditions where sources of ignition are excluded.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous decomposition products

No decomposition if used according to specifications and if stored properly.
Hazardous decomposition products may be formed at high temperatures, e.g.: hydrocarbons, nitrogen oxides, carbon monoxide, and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Toxicological data are not available.

Skin corrosion/irritation; Serious eye damage/eye irritation

Toxicological data are not available.

Respiratory or skin sensitization

Toxicological data are not available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Toxicological data are not available.

Specific target organ toxicity

Toxicological data are not available.

Aspiration hazard

Toxicological data are not available.

Practical experience/human evidence

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system.

Indications for this are:

headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage. Frequently or prolonged contact with skin may cause dermal irritation.

Overall Assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

SECTION 12: Ecological information

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12.1 Toxicity

Aquatic toxicity

No further relevant information available.

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.

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

The product contains materials that are harmful to the environment.

Water hazard class 1 (self-assessment): slightly hazardous for water.

Do not allow the product to reach ground water, open water or the sewer system, undiluted or in large quantities.

Behaviour in sewage plants:

141-78-6 ethyl acetate EC10 / 16 h 2900 mg/l (pseudomonas putida)

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Was disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Waste codes / waste designations according to EWC / AVV

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

Uncleaned containers/packaging material:

Recommendation: dispose of packaging according to regulations on the disposal of packaging.

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

Recommended cleaning agent: Solvent naphtha

Waste treatment options

Do not allow the product to the sewer system or waters.

Treat as special waste. Disposal according to guideline 2008/98/EC.

Other disposal recommendations

Waste classification and treatment may vary by region and application of product. Consider EU guideline 2001/118/EC.

SECTION 14: Transport information

14.1 UN-Number

UN 1993

14.2 UN proper shipping name

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The information supplied on this safety data sheet complies with our current level of knowledge and is not to be regarded as guaranteed attributes of the product.

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ADR/RID

ADR: 1993 FLAMMABLE LIQUID, N.O.S.

IMDG-Code / ICAO-TI / IATA-DGR

IMDG-Code: FLAMMABLE LIQUID, N.O..S.

IATA: FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard class(es)

ADR / RID:



Class: 3 (F1) Flammable Liquids

Tunnel restriction code: D/E

Special regulation: 640D

Label: 3/N

IMDG:



Class: 3, flammable liquids

EmS-Nr. : F-E / S-D

Label: 3

ICAO-TI / IATA-DGR:



Class: 3, flammable liquids

Label: 3

14.4 Packing group

II

14.5 Environmental hazards

Special marking

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: yes / no

Marine Pollutant: yes / no

14.6 Special precautions for user

Warning: flammable liquids. Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling see parts 6 – 8.

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14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information

UN "Model Regulation"

UN1993, FLAMMABLE LIQUIDS, N.O.S., 3, II

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (Detergents regulation)

Data sheet for medical personnel available on request

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

VOC-value (in g/l) ISO 11890-2: 868

VOC-value (in g/l) ASTM D 2369: 868

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

15.2 Chemical safety assessment

For the following substances of this preparation a chemical safety assessment has been carried out:

BUTANONE	Reg.-Nr. (EG): 01-2119457290-43 EINECS: 201-159-0 CAS-Nr. 78-93-3
ETHYL ACETATE	Reg.-Nr. (EG): 01-2119475103-46 EINECS: 205-500-4 CAS-Nr.: 141-78-6
HEPTANE, ISOMERIC	Reg.-Nr. (EG): 01-2119475515-33-xxxx EG-Nr. 927-510-4 CAS-Nr. 64742-49-0

SECTION 16: Other information

16.1 Indication of changes

Adapted to CLP/GHS requirements

16.2 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)

Asp. Tox. 1: Aspiration hazard, Hazard Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

BCF: Biological Concentration Factor

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CMR: Cancerogenic-mutagenic-reproductive toxic

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DNEL: Derived No-Effect Level
EAK: Europäischer Abfallkatalog
EINECS: European Inventory of Existing Commercial Substances
ELINCS: European List of Notified Chemical Substances
Eye Irrit.: Serious eye damage/eye irritation
Flam. Liq.: Flammable liquids
GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NOEC: No Observed Effect Concentration
NOEL: No Observed Effect Level
OEL: Occupational Exposure Limits
PBT: Persistent, bioaccumulative, toxic
PNEC: Predicted No-Effect Concentration (REACH)
Repr.: Reproductive toxicity
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
Skin Irrit.: Skin corrosion/irritation
Skin Sens.: Sensitisation – Skin
STOT: Specific target organ toxicity
STOT SE: Specific target organ toxicity - Single exposure
STOT RE: Specific target organ toxicity - Repeated exposure
SVHC: Substance of Very High Concern
vPvB: very Persistent, very Bioaccumulative

16.3 Key literature references and sources for data

The information contained in this safety data sheet reflects our current level of knowledge and complies with national and EU legislation. However, the working conditions of the user are unknown to us and are outside of our control.

The details in this safety specification sheet describe the safety requirements for our products and offer no assurance as to the product's properties.

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008

Directive (EC) Nr. 1272/2008 [CLP]
Flam. Liq. 2 H225 Highly flammable liquid and vapour.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
STOT SE 3 H336 May cause drowsiness or dizziness.

16.5 Relevant R-, H- and EUH-phrases (number and full text)

H225 Highly flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

16.6 Training advice

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Regular education and training is consulted when working with dangerous goods.
See Kaiflex® manuals.

16.7 Further information

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.
