

Safety Data Sheet

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

Print date: 23.05.2016
Valid from: 23.05.2016
Version: 1

KAIFLEX® Spezialkleber / K 415plus glue

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

1.1 Product identifier

Substances / Trade name / designation: Kaiflex K 415plus glue

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:

Adhesive

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.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 2 H411 Toxic 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

Naphtha, hydrotreated light

Hazard statements:

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower..
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P370 + P378	In case of fire: Use for extinction: CO ₂ , 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)

Contains Rosin. May produce an allergic reaction.

2.3 Other hazards

Not applicable

PBT: not applicable

vPvB: not applicable

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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: 25 - < 35% Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336
NAPHTHA; HYDROTREATED LIGHT	Reg.nr. (EG): 01-2119486291-36 EG-Nr. 926-605-8 CAS-Nr. 64742-49-0 Percentage: 20 - < 35 % Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic. 2 ; H411; Skin. Irrit.2, H315; STOT SE 3, H336
NAPHTHENE	Reg.nr. (EG): 01-2119475515-33 EG-Nr. 927-510-4 CAS-Nr. 92045-53-9 Percentage: 5 – < 10 % Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic. 2, H411; Skin. Irrit.2, H315; STOT SE 3, H336
NAPHTHA; HYDROTREATED LIGHT	Reg.nr. (EG): 01-2119484651-34 EG-Nr. 931-254-9 CAS-Nr. 64742-49-0 Percentage: 5 - < 10 % Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Chronic. 2, H411; Skin. Irrit.2, H315; STOT SE 3, H336
SOLVENT NAPHTHA	Reg.nr. (EG): 01-2119486291-36 EG-Nr. 926-605-8 CAS-Nr. 92062-15-2 Percentage: 2,5 - < 5 % Flam. Liq. 2 , H225; Asp. Tox. 1, H304; Aquatic Chronic. 2, H411; STOT SE 3, H336
ETHANOL	Reg.nr. (EG): 01-2119457610-43-0098 EG-Nr. 200-578-6 CAS-Nr. 64-17-5 Percentage: 1 - < 2,5 % Flam. Liq. 2 , H225; Eye Irrit. 2, H319
ROSIN	Reg.nr. (EG): 01-2119480418-32 EINECS-Nr. 232-475-7 CAS-Nr. 8050-09-7 Percentage: 0,5 - < 1 % Skin. Sens.1, H317

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n-HEXANE

EINECS-Nr. 203-777-6 CAS-Nr. 110-54-3 Percentage: 0,1 - < 0,5 %

Flam. Liq. 2., H225; Repr. 2, H361f; STOT RE2, H373; 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)
Contains < 0.1 % benzene (Note P)

SECTION 4: First aid measures

4.1 Description of first aid measures

Following inhalation

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air; consult physician in case of symptoms.

Following skin contact

Instantly wash with water and soap and rinse thoroughly.

Following eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult physician.

Following ingestion

Do not induce vomiting; instantly call for medical help.

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

If swallowed or in case of vomiting, danger of entering the lungs.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder.

For safety reasons unsuitable extinguishing agents: Water; water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing. Keep away from sources of ignition. Care for sufficient ventilation of working area, Do not inhale vapours. See sections 7 and 8.

6.2 Environmental precautions

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Do not allow product to reach sewage system or water bodies.
Prevent material from reaching sewage system, holes and cellars.
Inform respective authorities in case product reaches water or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).

6.3 Methods and material for containment and cleaning up

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

Store in cool, dry place in tightly closed containers.
Ensure good ventilation/extraction system at the workplace.
Open and handle container with care.
Ensure good interior ventilation, especially at floor level (fumes are heavier than 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

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

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8.1 Control parameters

Components with critical values that require monitoring in the workplace

ETHYL ACETATE (CAS-Nr. 141-78-6)	WEL Short-term value: 400 ppm WEL Long-term value: 200 ppm
ETHANOL (CAS-Nr. 64-17-5)	WEL Long-term value: 1920 mg/m ³ , 1000 ppm

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/m ³ (acute, local effects) DNEL w 1468 mg/m ³ (acute, systemic effects) DNEL w 734 mg/m ³ (Long-term, local effects) DNEL w 734 mg/m ³ (Long-term, systemic effects)
NAPHTHA, HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	Dermal: DNEL w 25,9 mg/kg bw/day (Long-term, systemic effects) Inhalative: DNEL w 3,25 mg/m ³ (Long-term, systemic effects)
NAPHTHENE (CAS-Nr. 92045-53-9)	Dermal: DNEL w 300 mg/kg bw/day (Long-term, systemic effects) Inhalative: DNEL w 2085 mg/m ³ (acute, systemic effects)
NAPHTHA, HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	Dermal: DNEL w 13964 mg/kg bw/day (Long-term, systemic effects) Inhalative: DNEL w 5306 mg/m ³ (Long-term, systemic effects)
SOLVENT NAPHTHA (CAS-Nr. 92062-15-2)	Dermal: DNEL w 13964 mg/kg bw/day (Long-term, systemic effects) Inhalative: DNEL w 5306 mg/m ³ (Long-term, 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/m ³ (acute, local effects) DNEL c 734 mg/m ³ (acute, systemic effects) DNEL c 367 mg/m ³ (Long-term, local effects) DNEL c 367 mg/m ³ (Long-term, systemic effects)
NAPHTHENE (CAS-Nr. 92045-53-9)	Oral: DNEL c 149 mg/kg bw/day (Long-term, systemic effects) Dermal: DNEL c 149 mg/kg bw/day (Long-term, systemic effects) Inhalative: DNEL c 477 mg/m ³ (Long-term, systemic effects)

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NAPHTHA, HYDROTREATED LIGHT (CAS-Nr. 64742-49-0) Oral:
DNEL c 1301 mg/kg bw/day (Long-term, systemic effects)
Dermal:
DNEL c 1377 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL c 1137 mg/m³ (Long-term, systemic effects)

SOLVENT NAPHTHA (CAS-Nr: 92062-15-2) Oral:
DNEL c 1301 mg/kg bw/day (Long-term, systemic effects)
Dermal:
DNEL c 1377 mg/kg bw/day (Long-term, systemic effects)
Inhalative:
DNEL c 1131 mg/m³ (Long-term, systemic 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)

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: > 0,7 mm

LLDPE gloves

Penetration time of glove material Value for the permeation: Level <= 1

Gloves made of the following material are suitable for the permanent contact with this material in work areas which do not have an above-average risk of injury (e.g. laboratories):

LLDPE gloves

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

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

suitable: Butyl rubber, BR

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

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Natural rubber, NR, Chloroprene rubber, CR

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

Other skin protection measures

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

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: yellow-red

Smell: typical (solvent)

Odour threshold: Not determined.

pH value: Not determined.

Melting point/freezing point: Not determined.

Initial boiling point/boiling range: >48 °C

Flash point: - 25 °C

Evaporation rate: Not determined.

Flammability (solid, gas): Not applicable

ignition may start at 200 °C

Vapour pressure: 110 hPa bei 20 °C

Vapour density: Not determined.

Relative density: 0,85 g/cm³ at 20 °C

Solubility(ies): Not 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: 1400 mPas dyn. bei 20 °C

Upper/lower flammability or explosive limits: Lower explosive limits ca. 1,1 Vol.-%.

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

Oxidising properties: Not determined.

Maximum level of VOC: 76,20 %

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Product is not reactive if used according to specifications.

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10.2 Chemical stability

No decomposition if used according to specifications.

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, carbon monoxide, and carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

LD/LC50 values that are relevant for classification:

ETHYL ACETATE (CAS-Nr. 141-78-6)	Oral: LD50 oral 5600 mg/kg (Rabbit) Dermal: LD50 dermal 18000 mg/kg (Rabbit) Inhalative: LC50 / 4 h 29,3 mg/l (Rat)
NAPHTHA; HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	Oral: LD50 oral 5500 mg/kg (Rat) Dermal: LD50 dermal > 8000 mg/kg (Rabbit) Inhalative: LC50 / 4 h 43,7 mg/l (Rat)
NAPHTHA; HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	Dermal: LD50 dermal > 8000 mg/kg (Rabbit) Inhalative: LC50 / 4 h 43,7 mg/l (Rat)
SOLVENT NAPHTHA (CAS-Nr: 92062-15-2)	Oral: LD50 oral 5500 mg/kg (Rat) Inhalative: LC50 / 4 h 50 mg/l (Rat)

Other information

Primary irritant effect:

to the skin: Irritant for skin and mucous membranes.

to the eye: Irritant effect.

Sensitization: No sensitizing effect known.

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC

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Classification Guidelines for Preparations (Directive 1999/45/EC of the European Parliament and of the Council) as issued in the latest version:
Vapours have anesthetic effect.
Irritant.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

ETHYL ACETATE (CAS-Nr. 141-78-6)	EC 50: 17,9 mg/l (desmodesmus subspicatus) EC 50 / 24 h: 724 mg/l (daphnia magna) EC 50 / 48 h: 3300 mg/l (desmodesmus subspicatus) 717mg/l (daphnia magna) LC 50: 200 mg/l (Rat) LC 50 / 48 h: 350 mg/l (leuciscus idus) LC 50 / 96 h: 431 mg/l (brachydanio rerio) 230 mg/l (oncorhynchus mykiss) 455 mg/l (pimephales promelas)
NAPHTHA; HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	EC 50 / 48 h: 3mg/l (daphnia magna) EC 50 / 72 h: 75,6 mg/l (desmodesmus subspicatus) LC 50 / 48 h: 10 mg/l (leuciscus idus) LC 50 / 96 h: 14,1 mg/l (oncorhynchus mykiss)
NAPHTHA; HYDROTREATED LIGHT (CAS-Nr. 64742-49-0)	EC 50 / 48 h: 6,96 mg/l (daphnia magna) EC 50 / 72 h: 75,6 mg/l (desmodesmus subspicatus) LC 50 / 48 h: 10 mg/l (leuciscus idus) LC 50 / 96 h: 14,1 mg/l (oncorhynchus mykiss)
SOLVENT NAPHTHA (CAS-Nr. 92062-15-2)	EC 50 / 48 h: 3 mg/l (daphnia magna) EC 50 / 72 h: 55 mg/l (pseudokirchneriella subcapitata) LC 50 / 96 h: 12 mg/l (oncorhynchus mykiss)

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

Not applicable.

12.6 Other adverse effects

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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. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms.
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

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Hand over to disposers of hazardous waste.

Waste codes / waste designations according to EWC / AVV

08 04 09* waste adhesives and sealants containing organic solvents or other dangerous substances
Adhesives, dry, solid mass: Smaller quantities can be disposed with household garbage.
Waste disposal key number 08 04 10: waste adhesives and sealants other than those mentioned in 08 04 09.
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 1133

14.2 UN proper shipping name

ADR/RID

ADR: 1133 ADHESIVES, ENVIRONMENTALLY HAZARDOUS

IMDG-Code / ICAO-TI / IATA-DGR

IMDG-Code: ADHESIVES (Solvent naphtha), MARINE POLLUTANT
IATA: ADHESIVES

14.3 Transport hazard class(es)

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ADR / RID:



Class: 3 (F1) Flammable Liquids
Kemler Nr.: 33
Tunne restriction code : D/E
Label: 3

IMDG:



Class: 3, flammable liquids
EmS-Nr. : F-E / S-D
LQ 5 I, E 2
Label: 3

ICAO-TI / IATA-DGR:



Class: 3, flammable liquids
E 2
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.

See sections 6 – 8 for safe handling.

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

Not applicable.

Transport/Additional information

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ADR
Limited quantities (LQ): 5L
Transport category :2
Tunnel restriction code: D/E

IMDG
Limited quantities (LQ) : 5L
Excepted quantities (EQ) : Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

UN "Model Regulation"

UN1133, ADHESIVES, ENVIRONMENTALLY HAZARDOUS, 3, II

SECTION 15: Regulatory information

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

EU regulations

Guideline 2012/18/EC

Listed substances – ANNEX I: Not contained

The product does not need to be labelled in line with preparations directive 1999 /45 / EC

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

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

DNEL: Derived No-Effect Level

EAK: Europäischer Abfallkatalog

EINECS: European Inventory of Existing Commercial Chemical 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

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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.
Aquatic Chronic 2 H411 Toxic 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.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361f Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

16.6 Training advice

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.
