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

- **1.1 Product identifier**
- **Trade name:** **KEMPERTEC FALLSTOP Cleaner**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
  Identified use: intended for professional use only!
- **Application of the substance / the mixture** Cleaning material/ Detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** KEMPER SYSTEM GmbH & Co. KG
  Holländische Strasse 32-36
  34246 Vellmar
  Deutschland / Germany
  Telefon: +49 (0)561 / 8295-0
  Telefax: +49 (0)561 / 8295-5110
  E-Mail: MSDS@KEMPER-SYSTEM.COM
- **Further information obtainable from:** Forschung und Entwicklung
- **1.4 Emergency telephone number:** Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen
  Langenbeckstraße 1; Gebäude 601; 55131 Mainz
  Tel. Nr.: +49 (0)6131 / 19 24 0
  Universitätsmedizin der Johannes Gutenberg-Universität Mainz

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008** The product is not classified according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **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: consisting of the following components.

- **Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6	ethanol	Flam. Liq. 2, H225; Eye Irrit. 2, H319	2.5-10%

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

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Immediately remove any clothing soiled by the product.
  Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
  Do not leave affected persons unattended.
  Personal protection for the First Aider.
  Take affected persons out of danger area and lay down.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
  Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  Seek medical treatment.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  Protect unharmed eye.
- **After swallowing:** If symptoms persist consult doctor.
- **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.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray.
  Sand
  ABC powder
  Alcohol resistant foam
  CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information** Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
  Ensure adequate ventilation
  Wear protective clothing.
  Avoid contact with skin and eyes
- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
  Dilute with plenty of water.
  Do not allow to enter sewers/ surface or ground water.
  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).
  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 disposal information.

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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use only in well ventilated areas.
  Keep receptacles tightly sealed.
  Store in cool, dry place in tightly closed receptacles.
  Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
  Use explosion-proof apparatus / fittings and spark-proof tools.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Provide solvent resistant, sealed floor.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
  Store away from water.
- **Further information about storage conditions:** Protect from frost.
  Keep container tightly sealed.
  Recommended storage temperature: 10-30 °C
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**	
64-17-5 ethanol	
WEL	Long-term value: 1920 mg/m³, 1000 ppm

- **DNELs**		
64-17-5 ethanol		
Dermal	DNEL dermal	>10000 mg/kg/bw/day (rabbit)

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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.
  Keep away from foodstuffs, beverages and feed.
  Immediately remove all soiled and contaminated clothing
  Wash hands before breaks and at the end of work.
  Avoid contact with the eyes and skin.
- **Respiratory protection:** When used properly and under normal conditions, breathing protection is not required.
  Use suitable respiratory protective device in case of insufficient ventilation.
  Filter A/P2
- **Protection of hands:**

Protective gloves

Only use chemical-protective gloves with CE-labelling of category III.
Check protective gloves prior to each use for their proper condition.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
After use of gloves apply skin-cleaning agents and skin cosmetics.

- **Material of gloves** Recommended materials:
  Butyl rubber, BR
  Recommended thickness of the material: ≥ 0.5 mm
- **Penetration time of glove material** The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **As protection from splashes gloves made of the following materials are suitable:**
  Nitrile rubber, NBR
  Recommended thickness of the material: ≥ 0.1 mm
  Penetration time (min.): <10
- **Eye protection:**

Tightly sealed goggles

- **Body protection:** Protective work clothing
  Impervious protective clothing

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**	
- **General Information**	
- **Appearance:**	
Form:	Fluid
Colour:	Green
- **Odour:**	Characteristic
- **Odour threshold:**	Not determined.
- **pH-value at 20 °C:**	7.5
- **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	78 °C
- **Flash point:**	>65 °C
- **Flammability (solid, gas):**	Not applicable.
- **Ignition temperature:**	425 °C
- **Decomposition temperature:**	Not determined.
- **Auto-ignition temperature:**	Product is not selfigniting.
- **Explosive properties:**	Product does not present an explosion hazard.
- **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
- **Density at 20 °C:**	0.98 g/cm³
- **Relative density**	Not determined.
- **Vapour density**	Not determined.

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- **Evaporation rate**	Not determined.
- **Solubility in / Miscibility with water:**	Fully miscible.
- **Partition coefficient: n-octanol/water:**	Not determined.
- **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
- **Solvent content:**	
VOC (EC)	9.80 %
- **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:**	No dangerous decomposition products known.

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 relevant for classification:**

64-17-5 ethanol

Oral	LD50	5000 mg/kg (rat)
Inhalative	LC50/4 h	>1800 mg/l (rat)

- **Primary irritant effect:**	
- **Skin corrosion/irritation**	Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**	Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**	Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**	
- **Germ cell mutagenicity**	Based on available data, the classification criteria are not met.
- **Reproductive toxicity**	Based on available data, the classification criteria are not met.
- **STOT-single exposure**	Based on available data, the classification criteria are not met.
- **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:**

64-17-5 ethanol

LC50/96 h	14221 mg/l (Daphnia magna)
EC0	6500 mg/l (Pseudomonas putida)
	5000 mg/l (Scenedesmus subspicatus) (168h)
LC50	8150 mg/l (Leuciscus idus (Aland))

- **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 course or sewage system.
- **12.5 Results of PBT and vPvB assessment**	
- **PBT:**	Not applicable.
- **vPvB:**	Not applicable.

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- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.

- European waste catalogue	
07 02 04*	other organic solvents, washing liquids and mother liquors

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- **14.1 UN-Number** - **ADR, ADN, IMDG, IATA**	Void
- **14.2 UN proper shipping name** - **ADR, ADN, IMDG, IATA**	Void
- **14.3 Transport hazard class(es)** - **ADR, ADN, IMDG, IATA** - **Class**	Void
- **14.4 Packing group** - **ADR, IMDG, IATA**	Void
- **14.5 Environmental hazards:** - **Marine pollutant:**	No
- **14.6 Special precautions for user**	Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**	Not applicable.
- **UN "Model Regulation":**	Void

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.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this 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.
- **Department issuing SDS:** research & development
- **Contact:** research & development
- **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)
  VOC: Volatile Organic Compounds (USA, EU)
  DNEL: Derived No-Effect Level (REACH)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative
  Flam. Liq. 2: Flammable liquids – Category 2
  Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- **Sources** Internet:
  - www.echa.com
  - www.baua.de
  - www.gestis.itrust.de (IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance)

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