Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.06.2022 Version number 6 Revision: 10.06.2022

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

- **1.1 Product identifier**
- **Trade name:** **KEMPEROL 1K Waterproofing**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** Identified use: intended for professional use only!
- **Application of the substance / the mixture** Waterproofing
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**

KEMPER SYSTEM (INDIA) PRIVATE LIMITED
Indo-German Technology Park
S. No. 297-299
A/p Village: Urawade
Tal: Mulshi
Dist: Pune - 412 115.
Tel: +91-20-66740651
Fax: +91-20-66740652
Email: id-info@kemperindia.com

- **Further information obtainable from:** research & development
- **1.4 Emergency telephone number:** +91-20-66740651

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**

Carc. 2 H351 Suspected of causing cancer. Route of exposure: Inhalation.

- **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**

GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:** titanium dioxide
- **Hazard statements** H351 Suspected of causing cancer. Route of exposure: Inhalation.
- **Precautionary statements**

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **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: 13463-67-7 EINECS: 236-675-5	titanium dioxide	Carc. 2, H351	2.5-10%
CAS: 21645-51-2 EINECS: 244-492-7	aluminium hydroxide	Acute Tox. 5, H303	2.5-10%
CAS: 34590-94-8 EINECS: 252-104-2	(2-methoxymethylethoxy)propanol	Flam. Liq. 4, H227; Acute Tox. 5, H303	0.5-2.5%
CAS: 119-61-9 EINECS: 204-337-6	benzophenone	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 5, H313	≥0.025-<0.25%

- **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 in case of complaints.
- **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.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
- **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
Avoid contact with skin and eyes
- **6.2 Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
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).
Dispose contaminated material as waste according to item 13.
Ensure 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 disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Store in cool, dry place in tightly closed receptacles.
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

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- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Protect from frost.
  Store in dry conditions.
  Keep container tightly sealed.
  Recommended storage temperature: 5-30 °C
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

Ingredients with limit values that require monitoring at the workplace:	
34590-94-8 (2-methoxymethylethoxy)propanol	
IOELV (EU)	Long-term value: 308 mg/m³, 50 ppm Skin

- **Regulatory information** IOELV (EU): (EU) 2019/1831
- **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
  Avoid contact with the eyes and skin.
  Wash hands before breaks and at the end of work.
- **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
  Respiratory protection - Gas filters and combination filters according to (DIN EN 141)
- **Protection of hands:**

Protective gloves

Check protective gloves prior to each use for their proper condition.
Only use chemical-protective gloves with CE-labelling of category III.
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** Recommendation of the manufacturer:
  Nitrile rubber, NBR
  Recommended thickness of the material: ≥ 0.1 mm
  Penetration time (min.): < 480
- **Penetration time of glove material** The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
- **Eye protection:**

Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- **Body protection:** protective clothing (EN 13034)

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
  Form: Fluid

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Colour:	According to product specification
- **Odour:**	Characteristic
- **Odour threshold:**	Not determined.
- **pH-value at 20 °C:**	6-8
- **Change in condition**	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.
- **Flash point:**	>100 °C
- **Flammability (solid, gas):**	Not applicable.
- **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:**	1.33 g/cm³
- **Relative density**	Not determined.
- **Vapour density**	Not determined.
- **Evaporation rate**	Not determined.
- **Solubility in / Miscibility with water:**	Fully miscible.
- **Partition coefficient: n-octanol/water:**	Not determined.
- **Viscosity:**	
Dynamic:	Not determined.
Kinematic at 20 °C:	11,000 mm²/s
- **Solvent separation test:**	
VOC (EC)	2.22 %
- **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:**

21645-51-2 aluminium hydroxide		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	>4,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>19,000 mg/kg (rab)
Inhalative	LC50	3.35 mg/l (rat) (7h)
119-61-9 benzophenone		
Oral	LD50	>10,000 mg/kg (rat)
Dermal	LD50	3,535 mg/kg (rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

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- **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.
- **Additional toxicological information:**
- **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)** Carc. 2
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Suspected of causing cancer. Route of exposure: Inhalation.
- **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:	
21645-51-2 aluminium hydroxide	
NOEC	>0.07 mg/kg (Oncorhynchus mykiss (Regenbogenforelle)) (96h; OECD 203)
NOEC	>0.0005 mg/l (Daphnia magna) (48h; OECD 202)
NOEC	>0.004 mg/l (Scenedesmus capricornutum) (72h; OECD 201)
34590-94-8 (2-methoxymethylethoxy)propanol	
ErC50	>969 mg/l (Pseudokirchneriella subcapitata) (96h; stat.test; OECD 201)
NOEC	>0.5 mg/l (Daphnia magna) (22d; OECD 211)
EC10	4,168 mg/l (Pseudomonas putida) (18h)
LC 50	>1,000 mg/l (Crangon crangon (Garnele)) (OECD 202)
	2,070 mg/l (Copepod Acartia tonsa) (48h; stat.test; ISO TC147/SC5/WG2)
	>1,000 mg/l (Poecilia reticulata - Guppy) (96h; OECD 203)
	1,919 mg/l (Daphnia magna) (48h; stat.test; OECD 202)
LOEC	>0.5 mg/l (Daphnia magna) (22d)
MATC	>0.5 mg/l (Daphnia magna) (22d)
119-61-9 benzophenone	
NOEC 72h	1 mg/l (Pseudokirchneriella subcapitata)
LC50/96 h	14.7 mg/l (Pimephales promelas)

- **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
- **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 together with household garbage. Do not allow product to reach sewage system. Disposal according to official regulations
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void

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- **14.3 Transport hazard class(es)**	
- **ADR, ADN, IMDG, IATA**	
- **Class**	Void
- **14.4 Packing group**	
- **ADR, IMDG, IATA**	Void
- **14.5 Environmental hazards:**	Not applicable.
- **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**
H227 Combustible liquid.
H303 May be harmful if swallowed.
H313 May be harmful in contact with skin.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Department issuing SDS:** research & development
- **Contact:** research & development
- **Abbreviations and acronyms:**
ADR: Accord relatif au transport international 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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 4: Flammable liquids – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Carc. 2: Carcinogenicity – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- **Sources**
- www.echa.europa.eu
- www.baua.de
IFA: Institute für Occupational Safety and Health of the German Social Accident Insurance:
- www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp
- www.dguv.de/ifa/gestis/gestis-dnel-liste
- *** Data compared to the previous version altered.**