

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.08.2021


Version number 4 (replaces version 3)

Revision: 03.08.2021


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

- 1.1 Product identifier
- Trade name: **KEMPERDUR HB Coating (A) light grey**
- UFI: 7EP8-E0PR-T00Q-K7QX
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Application of the substance / the mixture: Identified use: intended for professional use only!  
Coating
- 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: research & development
- 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  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Dam. 1 H318 Causes serious eye damage.  
Skin Sens. 1 H317 May cause an allergic skin reaction.
  - 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008
  - Hazard pictograms
- The product is classified and labelled according to the CLP regulation.
- 

GHS05



GHS07
- Signal word: Danger
  - Hazard-determining components of labelling:
  - Hazard statements: Isophorondiamin-Isobutyraldimin  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H317 May cause an allergic skin reaction.
  - Precautionary statements: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves / eye protection / face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 Immediately call a POISON CENTER/doctor.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
  - Additional information: EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
  - 2.3 Other hazards
  - Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Mixture: consisting of the following components.

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**- Dangerous components:**

CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide	Carc. 2, H351	2.5-10%
CAS: 54914-37-3 EINECS: 259-393-4	Isophorondiamin-Isobutyraldimin	Skin Corr. 1B, H314; Skin Sens. 1, H317	≥2.5-<5%
CAS: 64742-47-8 EINECS: 265-149-8	Distillates (petroleum), hydrotreated light	Asp. Tox. 1, H304	0.5-2.5%
CAS: 77-99-6 EINECS: 201-074-9	propylidynetrimethanol	Repr. 2, H361fd	0.5-2.5%

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

## SECTION 4: First aid measures

**- 4.1 Description of first aid measures**

**- General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Immediately remove any clothing soiled by the product.

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:**

CO<sub>2</sub>, 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.

**- 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.

Avoid contact with skin and eyes

Ensure adequate ventilation

**- 6.2 Environmental precautions:**

Do not allow to enter sewers/ surface or ground water.

Prevent from spreading (e.g. by damming-in or oil barriers).

Inform respective authorities in case of seepage into water course or sewage system.

**- 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 disposal information.

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## 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:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **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**
- **Ingredients with limit values that require monitoring at the workplace:**
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see item 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:** 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 skin. Avoid contact with the eyes and skin.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device in case of insufficient ventilation.
- **Hand protection**



Protective gloves

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. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** Recommended materials: Butyl rubber, BR  
Recommended thickness of the material:  $\geq 0.5$  mm  
Penetration time (min.):  $< 480$   
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **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.
- **As protection from splashes gloves made of the following materials are suitable:** Nitrile rubber, NBR  
Recommended thickness of the material:  $\geq 0.1$  mm  
Penetration time (min.):  $< 10$
- **Eye/face protection**



Tightly sealed goggles

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

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## SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**

**- General Information**

- Colour:	According to product specification
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	301 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	127 °C
- Auto-ignition temperature:	Product is not selfigniting.
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	
- Kinematic viscosity at 20 °C	6,600 mm <sup>2</sup> /s
- Dynamic:	Not determined.
- Solubility	
- water:	Not miscible or difficult to mix.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	
- Density at 20 °C:	1.37 g/cm <sup>3</sup>
- Relative density	Not determined.
- Vapour density	Not determined.

**- 9.2 Other information**

- Appearance:	
- Form:	Fluid
- Important information on protection of health and environment, and on safety.	
- Explosive properties:	Product does not present an explosion hazard.
- Solvent content:	
- VOC (EC)	1.66 %
- Change in condition	
- Evaporation rate	Not determined.

**- Information with regard to physical hazard classes**

- Explosives	Void
- Flammable gases	Void
- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void

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- Pyrophoric solids Void
- Self-heating substances and mixtures Void
- Substances and mixtures, which emit flammable gases in contact with water Void
- Oxidising liquids Void
- Oxidising solids Void
- Organic peroxides Void
- Corrosive to metals Void
- Desensitised explosives Void

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability No further relevant information available.
- 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 hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

**- LD/LC50 values relevant for classification:**

**54914-37-3 Isophorondiamin-Isobutyraldimin**

Oral	LD50	4,150 mg/kg (rat) (OECD TG 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD TG402)

**64742-47-8 Distillates (petroleum), hydrotreated light**

Oral	LD50	>5,000 mg/kg (rat) (OECD 403 GLP: Yes)
Dermal	LD50	>2,000 mg/kg (rab) (OECD 402)

**77-99-6 propylidynetrimethanol**

Oral	LD50	14,100 mg/kg (rat)
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- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity 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.
- 11.2 Information on other hazards Based on available data, the classification criteria are not met.

**- Endocrine disrupting properties**

None of the ingredients is listed.

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## SECTION 12: Ecological information

**- 12.1 Toxicity**

**- Aquatic toxicity:**

**54914-37-3 Isophorondiamin-Isobutyraldimin**

ErC50	>100 mg/l (DESMODESMUS SUBSPICATUS) (OECD TG 201;)
EC50	302.4 mg/l (Belebtschlamm) (3h, OECD TG 209) 14.7 mg/l (Daphnia magna) (48h; OECD TG 202)
LC50	>100 mg/l (Danio rerio (Zebrafisch)) (96h; OECD TG203)
NOEC	7.6 mg/l (DESMODESMUS SUBSPICATUS) (OECD TG 201)

**- 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**

- PBT:** Not applicable.
- vPvB:** Not applicable.
- 12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects**
- Additional ecological information:**
- General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

## 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

**- European waste catalogue**

08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances
17 02 03	plastic

**- Uncleaned packaging:**

**- Recommendation:**

Disposal must be made according to official regulations.

## SECTION 14: Transport information

**- 14.1 UN number or ID 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 Maritime transport in bulk according to IMO instruments**

Not applicable.

**- UN "Model Regulation":**

Void

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## 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.

- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

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.

The safety data sheet issued is also compliant with the regulation Annex I of Regulation (EU) no. 453/2010 and Annex II of Regulation (EU) no. 2020/878.

- **Relevant phrases**

H304 May be fatal if swallowed and enters airways.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

- **Department issuing SDS:**

research & development

- **Contact:**

research & development

- **Date of previous version:**

14.07.2021

- **Version number of previous version:**

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- **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  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Carc. 2: Carcinogenicity – Category 2  
 Repr. 2: Reproductive toxicity – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1

- **Sources**

- [www.echa.europa.eu](http://www.echa.europa.eu)  
 - [www.baua.de](http://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](http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index.jsp)  
 - [www.dguv.de/ifa/gestis/gestis-dnel-liste](http://www.dguv.de/ifa/gestis/gestis-dnel-liste)

- \* Data compared to the previous version altered.