

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)


Revision: 29.08.2022

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


- 1.1 Product identifier
- Trade name: **KEMPEROL 1K-PUR light grey**
- UFI: VKD8-90KV-800R-F2Q9
- 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 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: Medical Emergency information in case of poisoning:
Poison Information Center Mainz - 24 h - Phone: +49 (0) 6131 19240
(advisory service in German or English language)

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
 - Flam. Liq. 3 H226 Flammable liquid and vapour.
 - Eye Irrit. 2 H319 Causes serious eye irritation.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- 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



GHS02



GHS07
- Signal word: Warning
- Hazard-determining components of labelling:
 - Poly[oxy(methyl-1,2-ethanediy)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene
 - 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate
 - Isophorondiisocyanate homopolymer
 - Phenol, methylstyrenated
 - m-tolylidene diisocyanate
 - trimethoxyvinylsilane
- Hazard statements
 - H226 Flammable liquid and vapour.
 - H319 Causes serious eye irritation.
 - H317 May cause an allergic skin reaction.
 - 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.
 - P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information:
 - EUH204 Contains isocyanates. May produce an allergic reaction.
 - 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.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 1)

- Determination of endocrine-disrupting properties

68512-30-1 Phenol, methylstyrenated

List II

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- Description:

Mixture: consisting of the following components.

- Dangerous components:

CAS: 37273-56-6 EC number: 609-378-7	Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 7727-43-7 EINECS: 231-784-4	barium sulphate, natural substance with a Community workplace exposure limit	12.5-25%
CAS: 64742-95-6 EINECS: 265-199-0	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Chronic 2, H411; STOT SE 3, H335-H336, EUH066	10-12.5%
CAS: 140921-24-0 ELINCS: 411-700-4	1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate Skin Sens. 1, H317	2.5-10%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide Carc. 2, H351	0.5-2.5%
CAS: 53880-05-0 EC number: 931-312-3	Isophorondiisocyanate homopolymer Skin Sens. 1, H317; STOT SE 3, H335	≥1-<2.5%
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO ₂) substance with a Community workplace exposure limit	0.5-2.5%
CAS: 68512-30-1 EINECS: 270-966-8	Phenol, methylstyrenated Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥0.5-<1%
CAS: 2768-02-7 EINECS: 220-449-8	trimethoxyvinylsilane Flam. Liq. 3, H226; Acute Tox. 4, H332; Skin Sens. 1B, H317	≥0.1-<0.5%
CAS: 26471-62-5 EINECS: 247-722-4	m-tolylidene diisocyanate Acute Tox. 2, H330; Resp. Sens. 1, H334; Carc. 2, H351; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335; Aquatic Chronic 3, H412, EUH204 Specific concentration limit: Resp. Sens. 1; H334: C ≥ 0.1 %	<0.1%
CAS: 4098-71-9 EINECS: 223-861-6	3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate Acute Tox. 1, H330; Resp. Sens. 1, H334; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Resp. Sens. 1; H334: C ≥ 0.5 % Skin Sens. 1; H317: C ≥ 0.5 %	<0.1%

- 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:

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.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 2)

- For safety reasons unsuitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture: Water with full jet
- 5.3 Advice for firefighters: Hydrogen cyanide (HCN)
Formation of toxic gases is possible during heating or in case of fire.
- Protective equipment: Nitrogen oxides (NOx)
Carbon monoxide (CO)
- Additional information: Do not inhale explosion gases or combustion gases.
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
Keep away from ignition sources.
Avoid contact with skin and eyes
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system.
Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter sewers/ surface or ground water.
- 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.
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.

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: Store only in the original receptacle.
- Requirements to be met by storerooms and receptacles: Store away from foodstuffs.
- Information about storage in one common storage facility: Protect from frost.
Store in dry conditions.
Keep container tightly sealed.
Recommended storage temperature: 5-30 °C
- Further information about storage conditions: 3
- Storage class: No further relevant information available.
- 7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

- Ingredients with limit values that require monitoring at the workplace:

7727-43-7 barium sulphate, natural

OEL | Long-term value: 5 mg/m³

14808-60-7 Quartz (SiO₂)

OEL | Long-term value: 0.1 mg/m³

26471-62-5 m-tolylidene diisocyanate

OEL | Short-term value: 0.07 mg/m³
Long-term value: 0.02 mg/m³
as -NCO; Sens.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 3)

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

OEL Long-term value: 0.005 ppm
Sens

- **Regulatory information** OEL: 2021 CoP for the Safety, Health and Welfare at Work

- **DNELs**

7727-43-7 barium sulphate, natural

Inhalative Acute - systemic effects 10 mg/m³ (Worker) (GESTIS DNEL List (June 2018))

- **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:**

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

Respiratory protection - Gas filters and combination filters according to (DIN EN 141)

- **Hand protection**



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 (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: ≥ 0.1 mm

Penetration time (min.): < 10

- **Eye/face protection**



Tightly sealed goggles

- **Body protection:**

Protective goggles and facial protection - Classification according to EN 166 protective clothing (EN 13034)

SECTION 9: Physical and chemical properties

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

- **General Information**

- **Colour:**

According to product specification

- **Odour:**

Aromatic

- **Odour threshold:**

Not determined.

- **Melting point/freezing point:**

Undetermined.

- **Boiling point or initial boiling point and boiling range**

Undetermined.

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 4)

- Upper:	Not determined.
- Flash point:	31 °C
- Decomposition temperature:	Not determined.
- pH	Not determined.
- Viscosity:	
- Kinematic viscosity at 20 °C	119 s (ISO 6 mm)
- 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:	1.45 g/cm ³
- 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.	
- Auto-ignition temperature:	Product is not selfigniting.
- Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Solvent separation test:	
- VOC (EC)	15.88 %
- 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	Flammable liquid and vapour.
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- 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

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 5)

- 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
Reacts with alcohols, amines, aqueous acids and alkalis.
Reacts with water.
- 10.4 Conditions to avoid
No further relevant information available.
- 10.5 Incompatible materials:
Amines, acids, alkalis, strong oxidants, alcohols
- 10.6 Hazardous decomposition products:
Hydrogen chloride (HCl)
Carbon monoxide and carbon dioxide

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:

37273-56-6 Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene

Oral LD50 >5,000 mg/kg (rat)

7727-43-7 barium sulphate, natural

Oral LD50 >15,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >3,160 mg/kg (rabbit) (OECD 402)

140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

Oral LD50 >5,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

53880-05-0 Isophorondiisocyanate homopolymer

Oral LD50 >14,000 mg/kg (rat) (OECD 401)

68512-30-1 Phenol, methylstyrenated

Oral LD50 >2,000 mg/kg (rat) (OECD 423)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

2768-02-7 trimethoxyvinylsilane

Oral LD50 7,340-7,460 mg/kg (rat) (OECD 401)

Dermal LD50 3,460-4,000 mg/kg (rabbit) (OECD 402)

Inhalative LC50/4 h 16.79 mg/l (rat)

26471-62-5 m-tolylidene diisocyanate

Oral LD50 5,110 mg/kg (rat)

Inhalative LC50/4 h 0.107 mg/l (rat)

LC50/1 h 0.47 mg/l (rat)

4098-71-9 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate

Inhalative LC50/4 h 0.05 mg/l (ATE)

- Skin corrosion/irritation
Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
Causes serious eye irritation.
- 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.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 6)

- **Aspiration hazard** Based on available data, the classification criteria are not met.
 - **11.2 Information on other hazards**

- **Endocrine disrupting properties**

68512-30-1 Phenol, methylstyrenated

List II

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

37273-56-6 Poly[oxy(methyl-1,2-ethanediyl)], alpha-hydro-omega-hydroxy-, polymer with 2,4-diisocyanato-1-methylbenzene

EC50 >10,000 mg/l (Belebtschlamm) (OECD 209)

7727-43-7 barium sulphate, natural

EC50 32 mg/l (Daphnia magna) (Ba-Ion; 48 h)

64742-95-6 Solvent naphtha (petroleum), light arom.

LL 50 9.2 mg/l (fish) (96h; OECD 203)

EC50 3.2 mg/l (Daphnia magna) (48h; OECD 202)

EC50 2.6 mg/l (Pseudokirchneriella subcapitata) (72h; OECD 201)

140921-24-0 1,6-hexanediyl-bis(2-(2-(1-ethylpentyl)-3-oxazolidinyl)ethyl)carbamate

LC50/96 h 316 mg/l (Danio rerio (Zebraabrling)) (OECD 203)

EC50 1.77 mg/l (Bakterien) (activated sludge; ISO 8192-1986 E)

IC50 43 mg/l (DESMODESMUS SUBSPICATUS) (72h; OECD 201)

EC50 193 mg/l (Daphnia magna) (48h; OECD 202)

53880-05-0 Isophorondiisocyanate homopolymer

LC50/96 h >1.51 mg/l (Cyprinus Carpio) (Richtlinie 67/548/EWG, Anhang V, C.1.)

EC50 >3.36 mg/l (Daphnia magna) (OECD 202)

EC50 >10,000 mg/l (Belebtschlamm) (OECD 209)

68512-30-1 Phenol, methylstyrenated

ErC50 15 mg/l (daphnia) (OECD TG 201)

LC50/96 h 25.8 mg/l (daphnia) (OECD TG 203)

EC50 14-51 mg/l (daphnia) (OECD TG 202)

2768-02-7 trimethoxyvinylsilane

NOEC 28 mg/kg (Daphnia magna) (21d)

EC50 >100 mg/l (Daphnia magna) (OECD 202)

EC50 297.2 mg/l (Daphnia magna) (24h)

EC10 1.1 mg/l (Pseudomonas putida) (3h; acute)

32 mg/l (Selenastrum capricornutum) (7d; acute)

EC50 >100 mg/l (DESMODESMUS SUBSPICATUS) (72h; Growth Inhibition Test; acute)

>100 mg/l (daphnia) (48h; Watery twigs acute)

168.7 mg/l (Daphnia magna) (48h)

EC50 210 mg/l (Selenastrum capricornutum) (7d; static acute)

LC 50 191 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h acute)

LC50 >100 mg/l (Brachydanio rerio (Ricefish)) (96h; static acute)

NOEC 28 mg/l (Daphnia magna) (21d)

NOEC 25 mg/l (Selenastrum capricornutum) (7d; acute)

- **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** For information on endocrine disrupting properties see section 11.

- **12.7 Other adverse effects**

- **Remark:** Harmful to fish

- **Additional ecological information:**

- **General notes:** Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
 Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

Danger to drinking water if even small quantities leak into the ground.

(Contd. of page 7)

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 05 01*	waste isocyanates
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, IMDG

- IATA

Void
UN1866

- 14.2 UN proper shipping name

- ADR, IMDG

- IATA

Void
RESIN SOLUTION

- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG

- Class

- IATA

Void



- Class

- Label

3 Flammable liquids.
3

- 14.4 Packing group

- ADR, IMDG

- IATA

Void
III

- 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.

- Transport/Additional information:

- ADR

- Remarks:

Kein Gut der Kl. 3 gemäß 2.2.3.1.5 ADR / 2.3.2.5 IMDG-Code
ADR / IMDG: Verpackung > 450 l = UN 1866 - Kl. 3 - HARZLÖSUNG, entzündbar - VP III
Außerhalb ADR / IMDG = UN 1866 - Kl. 3 - HARZLÖSUNG, entzündbar - VP III

Not goods of cl. 3 in accordance with 2.2.3.1.5 ADR / 2.3.2.5 IMDG-Code
ADR / IMDG: Packaging > 450 l = UN 1866 - cl. 3 - RESIN SOLUTION, flammable - PG III
Outside ADR / IMDG = UN 1866 - cl. 3 - RESIN SOLUTION, flammable - PG III

- 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.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 8)

- Seveso category	P5c FLAMMABLE LIQUIDS
- Qualifying quantity (tonnes) for the application of lower-tier requirements	5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements	50,000 t
- REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 3, 74

- 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.

- Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug 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

H226	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.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH204	Contains isocyanates. May produce an allergic reaction.

- Department issuing SDS:

research & development

- Contact:

research & development

- Date of previous version:

09.05.2022

- Version number of previous version:

14

- 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)
 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. 3: Flammable liquids – Category 3
 Acute Tox. 1: Acute toxicity – Category 1
 Acute Tox. 2: Acute toxicity – Category 2
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 Resp. Sens. 1: Respiratory sensitisation – Category 1
 Skin Sens. 1: Skin sensitisation – Category 1
 Skin Sens. 1B: Skin sensitisation – Category 1B
 Carc. 2: Carcinogenicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 29.08.2022

Version number 15 (replaces version 14)

Revision: 29.08.2022

Trade name: **KEMPEROL 1K-PUR light grey**

(Contd. of page 9)

- 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.

IE