

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.07.2018





Version number 7

Revision: 03.07.2018

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

- **1.1 Product identifier**
- **Trade name:** **KEMPEROL CP**
- **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**
 - Hardening agent/ Curing agent
 - Catalyst
- **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**
 - Org. Perox. D H242 Heating may cause a fire.
 - Eye Irrit. 2 H319 Causes serious eye irritation.
 - Skin Sens. 1 H317 May cause an allergic skin reaction.
 - Repr. 1B H360D May damage the unborn child.
 - Aquatic Acute 1 H400 Very toxic to aquatic life.
 - Aquatic Chronic 1 H410 Very toxic 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 GHS08 GHS09
- **Signal word**
 - Danger
- **Hazard-determining components of labelling:**
 - dicyclohexyl phthalate
 - dibenzoyl peroxide
- **Hazard statements**
 - H242 Heating may cause a fire.
 - H319 Causes serious eye irritation.
 - H317 May cause an allergic skin reaction.
 - H360D May damage the unborn child.
 - H410 Very 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.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P405 Store locked up.
 - P410 Protect from sunlight.
 - P411 Store at temperatures not exceeding 30°C.
 - 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.

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SECTION 3: Composition/information on ingredients

- 3.2 Chemical characterisation: Mixtures

- **Description:** Mixture: consisting of the following components.

- Dangerous components:

CAS: 94-36-0 EINECS: 202-327-6 Index number: 617-008-00-0 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 84-61-7 EINECS: 201-545-9 Index number: 607-719-00-4 Reg.nr.: 01-2119978223-34	dicyclohexyl phthalate Repr. 1B, H360D; Skin Sens. 1, H317; Aquatic Chronic 3, H412	25-50%

- SVHC

84-61-7 | dicyclohexyl phthalate

- **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.
If symptoms persist consult doctor.
- **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.
- **5.2 Special hazards arising from the substance or mixture** Under certain fire conditions, traces of other toxic gases cannot be excluded.
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** Cool endangered receptacles with water spray.
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.
Keep away from ignition sources.
Ensure adequate ventilation
Avoid contact with skin and eyes
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **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.
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.

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- 6.4 Reference to other sections

Dispose contaminated material as waste according to item 13.
Do not flush with water or aqueous cleansing agents
Pick up mechanically.
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

Handle with care. Avoid jolting, friction and impact.
Restrict the quantity stored at the work place.
Keep away from heat and direct sunlight.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Store in cool, dry place in tightly closed receptacles.
Keep receptacles tightly sealed.
Use only in well ventilated areas.

- Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.
Use explosion-proof apparatus / fittings and spark-proof tools.
Dust can combine with air to form an explosive mixture.
Substance/product is oxidising when dry.
Protect against electrostatic charges.
Prevent impact and friction.
Protect from heat.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.
Use only receptacles specifically permitted for this substance/product.
Prevent any seepage into the ground.

- Information about storage in one common storage facility:

Do not store together with oxidising and acidic materials as well as heavy-metal compounds.
Store away from foodstuffs.

- Further information about storage conditions:

Protect from heat and direct sunlight.
Recommended storage temperature: 5-30 °C
Keep container tightly sealed.
Store in dry conditions.

- Storage class:

5.2

- 7.3 Specific end use(s)

No further relevant information available.

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:

94-36-0 dibenzoyl peroxide

WEL | Long-term value: 5 mg/m³

84-61-7 dicyclohexyl phthalate

WEL | Long-term value: 5 mg/m³

- Regulatory information

WEL: EH40/2011

- 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.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Avoid contact with the eyes and skin.
Store protective clothing separately.

- Respiratory protection:

When used properly and under normal conditions, breathing protection is not required.
Use suitable respiratory protective device in case of insufficient ventilation.

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- Protection of hands:



Filter P2
Respiratory protection - Gas filters and combination filters according to EN 141

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

Recommended materials:
Butyl rubber, BR
Fluorocarbon rubber (Viton)
Nitrile rubber, NBR
Neoprene gloves

Recommended thickness of the material: ≥ 0.5 mm
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 374 part III 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 work clothing
Impervious protective clothing

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties

- General Information

- Appearance:

Form: Powder
Colour: White
- Odour: Characteristic
- Odour threshold: Not determined.

- pH-value: Not applicable.

- Change in condition

Melting point/freezing point: Undetermined.
Initial boiling point and boiling range: Undetermined.

- Flash point: Not applicable.

- Flammability (solid, gas): May cause fire.

- Ignition temperature: 60°C SADT

- Decomposition temperature: Not determined.

- Auto-ignition temperature: Product is not selfigniting.

- Explosive properties: Not determined.

- Explosion limits:

Lower: Not determined.
Upper: Not determined.

- Density at 20 °C: 1.23 g/cm³

- Bulk density: 620-650 kg/m³

- Relative density: Not determined.

- Vapour density: Not applicable.

- Evaporation rate: Not applicable.

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- Solubility in / Miscibility with water:	Insoluble.
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
- 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 and stored according to specifications. To avoid thermal decomposition do not overheat.
- 10.3 Possibility of hazardous reactions	Self-accelerating decomposition at SADT
- 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:	Hydrocarbons Carbon monoxide and carbon dioxide

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:

94-36-0 dibenzoyl peroxide

Oral	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	24.3 mg/l (rat)

84-61-7 dicyclohexyl phthalate

Oral	LD50	>2,000 mg/kg (rat)
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- Primary irritant effect:	
- 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.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)	Repr. 1B
- 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	May damage the unborn child.
- 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:

94-36-0 dibenzoyl peroxide

ErC50	0.0711 mg/l (Pseudokirchneriella subcapitata) (72h, OECD 201)
LC50	0.0602 mg/l (Oncorhynchus mykiss (Regenbogenforelle)) (96h, OECD 203)
NOEC	0.0316 mg/l (fish) (96h)
	0.02 mg/l (Pseudokirchneriella subcapitata) (72h)
EC50	110 mg/l (Daphnia magna) (OECD 202)
EC10	1 mg/l (Daphnia magna) (21d; OECD 211)

- 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.

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- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:** Also poisonous for fish and plankton in water bodies.
Very toxic for 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.
Danger to drinking water if even small quantities leak into the ground.
- **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
- **European waste catalogue**
- 16 05 08* | discarded organic chemicals consisting of or containing hazardous substances
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3106
- **14.2 UN proper shipping name**
- **ADR** 3106 ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), ENVIRONMENTALLY HAZARDOUS
- **IMDG** ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
- **IATA** ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide)
- **14.3 Transport hazard class(es)**
- **ADR**
- 
- **Class** 5.2 (P1) Organic peroxides.
- **Label** 5.2
- **IMDG**
- 
- **Class** 5.2 Organic peroxides.
- **Label** 5.2
- **IATA**
- 
- **Class** 5.2 Organic peroxides.
- **Label** 5.2
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void

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<ul style="list-style-type: none"> - 14.5 Environmental hazards: - Marine pollutant: - Special marking (ADR): 	Product contains environmentally hazardous substances: dibenzoyl peroxide Yes Symbol (fish and tree) Symbol (fish and tree)
<ul style="list-style-type: none"> - 14.6 Special precautions for user - Danger code (Kemler): - EMS Number: - Stowage Category - Stowage Code - Segregation Code 	Warning: Organic peroxides. 539 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" acids. SG36 Stow "separated from" alkalis.
<ul style="list-style-type: none"> - 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code 	Not applicable.
<ul style="list-style-type: none"> - Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ) - Transport category - Tunnel restriction code 	500 g Code: E0 Not permitted as Excepted Quantity 2 D
<ul style="list-style-type: none"> - IMDG - Limited quantities (LQ) - Excepted quantities (EQ) 	500 g Code: E0 Not permitted as Excepted Quantity
<ul style="list-style-type: none"> - UN "Model Regulation": 	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE), 5.2, ENVIRONMENTALLY HAZARDOUS

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.
- Seveso category	P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES E1 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of lower-tier requirements	50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements	200 t
- REGULATION (EC) No 1907/2006 ANNEX XVII	Conditions of restriction: 30
- National regulations:	
- Information about limitation of use:	Employment restrictions concerning juveniles must be observed. Employment restrictions concerning pregnant and lactating women must be observed. Employment restrictions concerning women of child-bearing age must be observed.
- Other regulations, limitations and prohibitive regulations	
- Substances of very high concern (SVHC) according to REACH, Article 57	
84-61-7	dicyclohexyl phthalate
- 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.

<ul style="list-style-type: none"> - Relevant phrases - Department issuing SDS: 	H241 Heating may cause a fire or explosion. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H360D May damage the unborn child. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. research & development
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- Contact:**- Abbreviations and acronyms:**

research & development

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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Org. Perox. B: Organic peroxides – Type B

Org. Perox. D: Organic peroxides – Type C/D

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 1B: Reproductive toxicity – Category 1B

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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

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

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