

according to 1907/2006/EC, Article 31

Printing date 01.06.2023 Version number 10 (replaces version 9) Revision: 01.06.2023

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

- 1.1 Product identifier

**KEMPEROL CP** - Trade name: - UFI: 42E0-30PD-700Y-DVQ9

- 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!

Hardening agent/ Curing agent Catalyst

- 1.3 Details of the supplier of the safety data sheet

KEMPER SYSTEM GmbH & Co. KG - Manufacturer/Supplier:

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

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

- Hazard pictograms

The product is classified and labelled according to the CLP regulation.



Danger







GHS02

GHS07

GHS08 GHS09

- Signal word

- 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.

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- vPvB: Not applicable.

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- Determination of endocrine-disrupting properties

84-61-7 dicyclohexyl phthalate

List I, II

### **SECTION 3: Composition/information on ingredients**

- 3.2 Mixtures

- Description: Mixture: consisting of the following components.

- Dangerous components:

CAS: 84-61-7
EINECS: 201-545-9
Repr. 1B, H360D; Skin Sens. 1, H317; Aquatic Chronic 3, H412

CAS: 94-36-0
EINECS: 202-327-6
Org. Perox. B, H241; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319; Skin Sens. 1, H317

- 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.

- After swallowing:

- 4.2 Most important symptoms and effects,

both acute and delayed

 4.3 Indication of any immediate medical attention and special treatment needed If symptoms persist consult doctor.

No further relevant information available.

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:

- 5.2 Special hazards arising from the

substance or mixture

Water with full jet

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.

Nitrogen oxides (NOx) Carbon monoxide (CO)

- 5.3 Advice for firefighters

- Protective equipment:
 - Additional information
 Do not inhale explosion gases or combustion gases.
 Cool endangered receptacles with water spray.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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#### **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.

In case of seepage into the ground inform responsible authorities. Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment

and cleaning up:

Ensure adequate ventilation.

Dispose contaminated material as waste according to item 13.

Do not flush with water or aqueous cleansing agents

Pick up mechanically.

- 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 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.

5.2

- Storage class: - 7.3 Specific end use(s) No further relevant information available.

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### **SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters

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

84-61-7 dicyclohexyl phthalate

OEL Long-term value: 5 mg/m<sup>3</sup>

94-36-0 dibenzoyl peroxide

OEL Long-term value: 5 mg/m<sup>3</sup> Sens

- Regulatory information

OEL: 2021 CoP for the Safety, Health and Welfare at Work

- DNELs

94-36-0 dibenzoyl peroxide

Dermal Long term - systemic effects 13.3 mg/kg (worker) Inhalative Long term - systemic effects 39 mg/m³ (worker)

- 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.

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.

When used properly and under normal conditions, breathing protection is not required. - Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

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

- Hand protection

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:  $\geq 0.5$  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.

- Eye/face protection



Tightly sealed goggles

Protective goggles and facial protection - Classification according to EN 166

- Body protection: Protective work clothing

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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	
- Physical state	Solid
- Colour:	White
- Odour:	Characteristic
- Odour threshold:	Not determined.
- Melting point/freezing point:	Undetermined.
- Boiling point or initial boiling point and boiling range	Undetermined.
- Flammability	May cause fire.
- Lower and upper explosion limit	, and the second
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	Not applicable.
- Decomposition temperature:	SADT 55 °C
- pH	Not applicable.
- Viscosity:	
- Kinematic viscosity	Not applicable.
- Dynamic:	Not applicable.
- Solubility	
- water:	Insoluble.
- Partition coefficient n-octanol/water (log value)	Not determined.
- Density and/or relative density	4.00
- Density at 20 °C:	1.23 g/cm³
- Relative density	Not determined.
- Bulk density:	620-650 kg/m³
- Vapour density - Particle characteristics	Not applicable. See item 3.
	See item 5.
- 9.2 Other information	
- Appearance:	D
- Form:	Powder
<ul> <li>Important information on protection of health and environment, and or safety.</li> </ul>	1
- Auto-ignition temperature:	Test method not applicable because T > SADT.
- Explosive properties:	Product does not present an explosion hazard.
- Change in condition	1 Toddot does not present an explosion nazara.
- Evaporation rate	Not applicable.
•	
- 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
- 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	Heating may cause a fire.
- Corrosive to metals	Void



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- Desensitised explosives

Void

### **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 No further relevant information available.

- 10.4 Conditions to avoid - 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 hazard classes as defined in Regulation (EC) No 1272/2008

Based on available data, the classification criteria are not met. - Acute toxicity

- LD/LC50 values relevant for classification:

84-61-7 dicyclohexyl phthalate

LD50 >2,000 mg/kg (rat)

94-36-0 dibenzoyl peroxide

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

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

- Serious eye damage/irritation - Respiratory or skin sensitisation - Germ cell mutagenicity

May cause an allergic skin reaction. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.

- Reproductive toxicity May damage the unborn child.

Based on available data, the classification criteria are not met. - STOT-single exposure - 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.

- Additional toxicological information:

- CMR effects (carcinogenity, mutagenicity

and toxicity for reproduction) Repr. 1B

- 11.2 Information on other hazards

- Endocrine disrupting properties

84-61-7 dicyclohexyl phthalate

List I, II

### **SECTION 12: Ecological information**

- 12.1 Toxicity

- Carcinogenicity

- 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.

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- 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

- 12.7 Other adverse effects

- Remark:

- Additional ecological information:

- General notes:

Also poisonous for fish and plankton in water bodies.

For information on endocrine disrupting properties see section 11.

Very toxic for aquatic organisms

Very toxic for fish

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*	4 09* waste adhesives and sealants containing organic solvents or other hazardous substances	
15 01 10*	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 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

- IMDG



- Class 5.2 Organic peroxides.

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- Label	5.2	
- IATA		
- Class	5.2 Organic peroxides.	
- Class - Label	5.2 Organic peroxides. 5.2	
- 14.4 Packing group - ADR, IMDG, IATA	Void	
- 14.5 Environmental hazards:	Product contains environmentally hazardous substances: dibenzoyl peroxide	
- Marine pollutant:	Yes Symbol (fish and tree)	
- Special marking (ADR):	Symbol (fish and tree)	
<ul> <li>- 14.6 Special precautions for user</li> <li>- Hazard identification number (Kemler code):</li> <li>- EMS Number:</li> <li>- Stowage Category</li> <li>- Stowage Code</li> <li>- Segregation Code</li> </ul>	Warning: Organic peroxides. 539 F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids SG36 Stow "separated from" SGG18-alkalis.	
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.		
- Transport/Additional information: - ADR - Limited quantities (LQ) - Excepted quantities (EQ)	500 g Code: E0 Not permitted as Excepted Quantity	
- Transport category	2	
- Tunnel restriction code	D	
- IMDG - Limited quantities (LQ)	500 g	
- Excepted quantities (EQ)	Code: E0 Not permitted as Excepted Quantity	
- 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

50 t

- Directive 2012/18/EU
- Named dangerous substances ANNEX I None of the ingredients is listed.
- P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES - Seveso category

E1 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements

Qualifying quantity (tonnes) for the application of upper-tier requirements REGULATION (EC) No 1907/2006 ANNEX 200 t

XVII

Conditions of restriction: 30

- 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.

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- REGULATION (EU) 2019/1148

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- 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.

- National regulations:

- 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.

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

H241 Heating may cause a fire or explosion. 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.

- Department issuing SDS:

- Date of previous version:

- Version number of previous version:

- Abbreviations and acronyms:

research & development research & development

16.06.2021

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)

DNEL: Derived No-Effect Level (REACH) 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 - 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.