

Version number 2

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

- · 1.1 Product identifier
- · Trade name: IKO Perkadox
- $\cdot$  1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

- · Application of the substance / the mixture Quenchant
- · 1.3 Details of the supplier of the safety data sheet

### • Manufacturer/Supplier: IKO Europe nv d'Herbouvillekaai 80 B-2020 Antwerpen Belgium Tel.: +32 (0)3 248 30 00 E-mail: sds.europe@iko.com

### · Further information obtainable from:

National Poisons Information Service UK: England and Wales: 0845 4647 Scotland: 08454 24 24 24; National Poisons Information Centre Ireland: +00 353 (0) 1 837 9964 or +00 353 (0) 1 809 2566. NPIS & NPIC services are provided exclusively for healthcare professionals working in NHS.

· 1.4 Emergency telephone number:

United Kingdom National Poisons Information Service (+44) 844 892 0111 - 0344 892 0111 Ireland National Poisons Information Centre Tel: +353 1 8092566 Emergency call only for healthcare professionals

# **SECTION 2: Hazards identification**

### · 2.1 Classification of the substance or mixture

### · Classification according to Regulation (EC) No 1272/2008

Self-react. C	H242	Heating may cause a fire.
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



· Signal word Danger

• Hazard-determining components of labelling: dicyclohexyl phthalate

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dibenzoyl peroxide

· Hazard statements				
H242 Heating may cause a fire.				
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				
P201 Obtain special instructions before use.				
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No				
smoking.				
P234 Keep only in original packaging.				
P240 Ground and bond container and receiving equipment.				
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.				
P308+P313 IF exposed or concerned: Get medical advice/attention.				
P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.				
P501 Dispose of contents/container in accordance with local/regional/national/international				
regulations.				
· Additional information:				
Restricted to professional users.				
2.3 Other hazards				
· Results of PBT and vPvB assessment				
• <b>PBT:</b> Not applicable.				
· vPvB: Not applicable.				

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

### · 3.2 Chemical characterisation: Mixtures

### · Description:

Mixture of substances listed below with nonhazardous additions. Mixture of aliphatic hydrocarbons and bitumen.

<ul> <li>Dangerous components:</li> </ul>			
CAS: 94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50	dibenzoyl peroxide	Org. Perox. B, H241 Aquatic Acute 1, H400 Eye Irrit. 2, H319; Skin Sens. 1, H317	≥40-≤60%
CAS: 84-61-7 EINECS: 201-545-9 Reg.nr.: 01-2119978223-34	dicyclohexyl phthalate	Repr. 2, H361 Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥40-≤50%
evuc	·	•	

### · SVHC

CAS: 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:
- Seek immediate medical advice.
- Take affected persons out of danger area and lay down.

### After inhalation:

Take affected persons into fresh air and keep quiet.



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(Contd. of page 2) Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation. · After skin contact: If skin irritation continues, consult a doctor. Immediately wash with water and soap and rinse thoroughly. · After eve contact: Rinse immediately with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Hold eye wide open during flushing. Seek medical attention if symptoms persist. Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. • After swallowing: Rinse out mouth and then drink plenty of water. • 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: Water spray Alcohol resistant foam Fire-extinguishing powder Sand Use fire extinguishing methods suitable to surrounding conditions. · 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. Accelerates combustion. PLEASE NOTE that there may be reignition. 5.3 Advice for firefighters • Protective equipment: Wear self-contained respiratory protective device. · Additional information Cool endangered receptacles with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system. SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.

- Avoid formation of dust. Ensure adequate ventilation Keep away from ignition sources.
- 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.
   6.3 Methods and material for containment and cleaning up:
- 6.3 Methods and material for containment and cleaning up: Keep wet with water.
   Send for recovery or disposal in suitable receptacles.
- 6.4 Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling Keep away from heat and direct sunlight. Use only in well ventilated areas. Provide suction extractors if dust is formed.
- Information about fire and explosion protection: Use explosion-proof apparatus / fittings and spark-proof tools.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle. Store in cool, dry place in tightly closed receptacles.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store in a cool place. Keep container tightly sealed.
- Storage class: Hazard group OP II (Organic peroxides, BGV B4)

### **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:

CAS: 94-36-0 dibenzoyl peroxide

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

### CAS: 84-61-7 dicyclohexyl phthalate

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

### · DNELs

### 94-36-0 dibenzoylperoxide

workers inhalation long term systemic effects :11.75 mg/m3 workers skin contact long term system effects : 6.6 mg/kg consumers inhalation long term system effects : 2.9 mg/kg consumers skin contact long term systemic effects :3.3 mg/kg consumers ingestion long term system effects : 1.65 mg/kg

### 84-61-7 dicyclohexyl phtalate

workers skin contact acute system effects : 0.5 mg/kg workers skin contact long term system effects : 0.5 mg/kg workers inhalation acute system effects : 35.2 mg/kg consumers inhalation acute system effects : 0.87 mg/kg consumers skin contact long term system effects : 0.25 mg/kg consumers ingestion long term system effects : 0.25 mg/kg

### · PNECs

94-36-0 dibenzoylperoxide fresh water : 0.000602 mg/l marine water : 0.000060 mg/l

marine water : 0.000060 mg/l intermittent water : 0.000602 mg/l sewage treatment plant : 0.35 mg/l fresh water sediment : 0.338 mg/l (Contd. of page 3)

# IKO

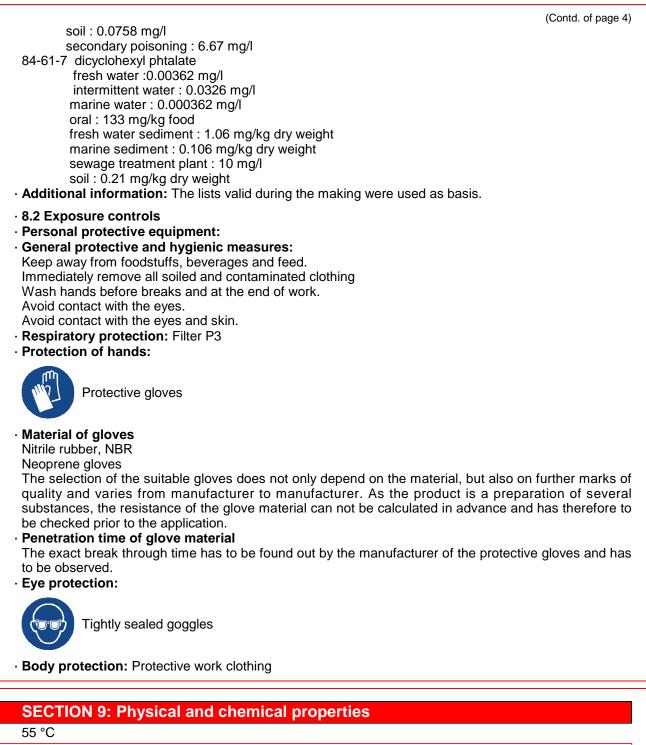
# Safety data sheet according to 1907/2006/EC, Article 31

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· 9.1 Information on basic physical and chemical properties

· Appearance: Form:

Colour:

Powder White

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· Odour:	Light
· Odour threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	e: 400 °C
· Flash point:	Not applicable.
· Flammability (solid, gas):	May cause fire.
Ignition temperature:	Not determined.
<ul> <li>Decomposition temperature:</li> </ul>	55°C
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 °C:	1.23 g/cm <sup>3</sup>
· Bulk density:	620-650 kg/m <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	
water:	Insoluble.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Solids content:	100.0 %
<ul> <li>9.2 Other information</li> </ul>	active oxigen content : 3.3%
	Organic peroxides : 48-55%
	No further information available.
	3.3 %

# **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
- Risk of dust explosion if enriched with fine dust in the presence of air. Reacts with alkali and metals. Reacts with acids.
- $\cdot$  10.4 Conditions to avoid Keep away from heat and direct sunlight.
- **10.5 Incompatible materials:** Reacts with reducing agents. Reacts with heavy metals. Acids, bases and amines.

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 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide Benzoic acid Benzene SADT : 55°C

# **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 : >5000 mg/kg (rat) inhalation: LC 50 : > 24.3 mg/l (rat) 84-61-7 Dicyclohexyl phtalate: oral LD50 : >2000 mg/kg (rat) dermal LD50 : >2000 mg/kg (rat)

### CAS: 84-61-7 dicyclohexyl phthalate

Oral LD50 30,000 mg/kg (rat)

- · Primary irritant effect:
- · Skin corrosion/irritation May cause skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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 LC50 : 0.06 mg/l 96h (fish) EC50 : 0.11 mg/l 48h (Daphnia magna) 84-61-7 Dicyclohexylphthalate LC50 : > 2 mg/l 96h (fish) EC50 : > 2 mg/l 48h (Daphnia magna)
- 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.
- · Ecotoxical effects:
- Remark: Toxic for fish

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### · Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- · 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 Disposal should be in accordance with applicable regional, national and local laws and regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- · 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 UN3106 ORGANIC PEROXIDE TYPE D, SOLID, ENVIRONMENTALLY HAZARDOUS · IMDG ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT · IATA ORGANIC PEROXIDE TYPE D, SOLID 14.3 Transport hazard class(es) · ADR · Class 5.2 Organic peroxides. · Label 9 · IMDG · Class 9 Miscellaneous dangerous substances and articles. (Contd. on page 9) GB



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· Label	9
·IATA	
· Class	5.2 Organic peroxides.
· Label	9
· 14.4 Packing group · IMDG	Void
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> <li>Special marking (ADR):</li> </ul>	Yes Symbol (fish and tree) Symbol (fish and tree)
<ul> <li>14.6 Special precautions for user</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> <li>Segregation Code</li> </ul>	Warning: Organic peroxides. F-J,S-R D SW1 Protected from sources of heat. SG35 Stow "separated from" SGG1-acids
<ul> <li>• 14.7 Transport in bulk according to Anno Marpol and the IBC Code</li> </ul>	SG36 Stow "separated from" SGG18-alkalis. ex II of Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	500 g Code: E0 Not permitted as Excepted Quantity
· Transport category	3
· Tunnel restriction code	D
· UN "Model Regulation":	UN 3106 ORGANIC PEROXIDE TYPE D, SOLID, 9 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 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

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National regulations:

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· Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

CAS: 84-61-7 dicyclohexyl phthalate

· 15.2 Chemical safety assessment:

A chemical safety assessment has been carried out for dibenzoyl peroxide

A chemical safety assessment is carried out for dicyclohexyl phtalate.

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. This Safety Data Sheet (SDS) is calculated with a Calculation method based on CLP Annex I, parts 2 to 5.

### · Relevant phrases

H241 Heating may cause a fire or explosion.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

H400 Very toxic to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

· Contact: sds.europe@iko.com

### · Abbreviations and acronyms:

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (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

Self-react. C: Self-reactive substances and mixtures - Type C/D

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 Repr. 2: Reproductive toxicity – 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

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

• \* Data compared to the previous version altered.





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