

PMMA – IKO Perkadox**SECTION 1 – SUBSTANCE IDENTITY AND COMPANY CONTACT INFORMATION**

PRODUCT NAME	IKO Perkadox
TRADE NAME	IKO Perkadox
PRODUCT NUMBER	00095110
CHEMICAL FAMILY	Mixture
PRODUCT USE	Hardener, Catalyst Industrial uses and Professional uses
MANUFACTURER/SUPPLIER	IKO Europe nv D'Herbouvillekaai 80 B-2020 Antwerpen Belgium Tel.: +32 (0)3 248 30 00
WEBSITE	www.iko.com
EMERGENCY NUMBER	CANUTEC: 1-613-996-6666 (24 hours information only)

SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

SIGNAL WORD Danger

SYMBOL(S)



CLASSIFICATION

Eye Irritation - Category 2.
Skin sensitization - Category 1.
Organic Peroxides - Type D.
Organic Peroxides - Type B.
Hazardous to the aquatic environment - acute aquatic hazard – Category 1.
Hazardous to the aquatic environment – long-term (chronic) – category 1.
Hazardous to the aquatic environment – long-term (chronic) – category 3.
Reproductive toxicity – Category 2.

HAZARD STATEMENTS

H241 Heating may cause a fire or explosion.
H242 Heating may cause a fire.
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.
H410 Very toxic to aquatic life with long lasting effects.



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

H412 Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P234 Keep only in original container.
 P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P370 + P378 In case of fire: Use for extinction: CO2, powder or water spray.

NFPA

No information available.

HMIS

No information available.

SECTION 3 – CHEMICAL COMPOSITION AND DATA ON COMPONENTS

Chemical characterization: Mixtures.

Hazardous Components:

HAZARDOUS CHEMICAL NAME	% (w/w)	CAS NUMBER
Dibenzoyl peroxide Org.Perox. B, H241 Aquatic Acute 1, H400 Eye Irrt. 2, H319; Skin Sens. 1, H317	>=40-<=60	94-36-0 EINECS: 202-327-6 Reg.nr.: 01-2119511472-50
Dicyclohexyl phthalate Repr. 2, H361 Skin Sens. 1, H317 Aquatic Chronic 3, H412	>= 40-<= 50	84-61-7 EINECS: 201-545-9 Reg.nr.: 01-2119978223-34

SECTION 4 – FIRST AID

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

INHALATION

Supply fresh air.
Rinse nose and mouth with water.

INGESTION

Rinse out mouth and then drink plenty of water.
Call for a doctor immediately.

SKIN CONTACT

If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

EYE CONTACT

Rinse opened eye for several minutes under running water. Then consult a doctor.
Protect unharmed eye.

ACUTE AND CHRONIC

Allergic reactions



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

SYMPTOMS

Symptoms/effects after eye contact : irritation of the eyes

MEDICAL ATTENTION

No further relevant information available.

SECTION 5 – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Water haze
Alcohol resistant foam
Fire-extinguishing powder
Sand
Use fire extinguishing methods suitable to surrounding conditions.
Water with full jet

ADVICE FOR FIRE FIGHTING

Wear self-contained respiratory protective device.

HAZARDOUS COMBUSTION PRODUCTS

Formation of toxic gases is possible during heating or in case of fire.
Accelerates combustion.
PLEASE NOTE that there may be reignition.
Exposure to the decomposition products may cause a health hazard.

FLAMMABILITY

No information available.

PROPERTIES:

FLASH POINT Above SADT.

FLAMMABLE LIMITS IN AIR Not determined.

AUTO IGNITION TEMPERATURE Product is not selfigniting.

SPECIAL PPE FOR FIRE-FIGHTERS 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

PERSONAL PRECAUTIONS, PROTECTIVE MEASURES AND EMERGENCY PROCEDURES

Avoid formation of dust.
Avoid inhalation of dust.
Ensure adequate ventilation.
Keep away from ignition sources.
Wear protective equipment. Keep unprotected persons away.

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.



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

SPILL MANAGEMENT

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 Keep wet with water.
 Dispose of the material collected according to regulations.

SECTION 7 - HANDLING AND STORAGE

HANDLING PROCEDURE

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. Protect from heat. Protect against electrostatic charges. Keep ignition sources away - Do not smoke.

STORAGE PRECAUTIONS

Requirements to be met by storerooms and receptacles:
 Store only in the original receptacle. Store between 5°C and 25°C.
 Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:
 Avoid contact with ignition points. Avoid any contact with oxidizing agents, of strongly alkaline and strongly acidic materials. Always store the product in containers of the same material as the original container. Keep the recommendations on the label. Store the product away from heat sources and direct sunlight.

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 CONTROL AND PERSONAL PROTECTION

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 ³

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

PNECs

94-36-0 dibenzoylperoxide

fresh water : 0.000602 mg/l



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

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
soil : 0.0758 mg/l
secondary poisoning : 6.67 mg/l

94-49-5 ethylene glycol dibenzoate

fresh water : 0,0073 mg/l
marine water : 0,00073 mg/l
fresh water sediment : 2,23 mg/kg
marine water sediment : 0,223 mg/kg
sewage treatment plant : 128 mg/l
soil : 0,44 mg/kg

Additional information: The lists valid during the making were used as basis.

ENGINEERING MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION Use suitable respiratory protective device in case of insufficient ventilation. Filter P2

SKIN AND BODY PROTECTION Wash hands before breaks and at the end of work.
Avoid contact with the skin.
Protection of hands: Use Protective gloves
Material of gloves: Nitrile rubber, NBR
Neoprene gloves
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material:
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
Body protection: Protective work clothing

EYE PROTECTION Tightly sealed goggles

HYGIENE 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 eyes.
Avoid contact with the eyes and skin

OTHER CONTROLS No information available.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

APPEARANCE (PHYSICAL STATE, COLOR etc.) ODOR	Form: Powder Color: White Light
ODOR THRESHOLD	Not determined.
PH	Not applicable.
MELTING POINT/FREEZING POINT	Undetermined.
INITIAL BOILING POINT AND BOILING RANGE	400 °C
FLASH POINT	Above SADT
EVAPORATION RATE	Not applicable.
FLAMMABILITY	No information available.
IGNITION TEMPERATURE	Not determined.
UPPER/LOWER FLAMMABILITY/EXPLOSIVE LIMITS	Lower flammability limit (% vol): Not determined. Upper flammability limit (% vol): Not determined.
VAPOR PRESSURE	Not applicable.
VAPOR DENSITY	Not applicable.
RELATIVE DENSITY	Not determined.
MOLECULAR WEIGHT	No information available.
SOLUBILITY IN/MISCIBILITY WITH WATER:	Insoluble
PARTITION COEFFICIENT: N-OCTANOL/WATER	Not determined
AUTO-IGNITION TEMPERATURE	Product is not selfigniting.
EXPLOSIVE PROPERTIES	Product does not present an explosion hazard.
SPECIFIC GRAVITY	No information available.
VISCOSITY	Dynamic: Not applicable. Kinematic: Not applicable.
SOLVENT CONTENT: SOLID CONTENT	100%
OTHER INFORMATION	active oxigen content : 3.3% Organic peroxides : 48-55%



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY:	No further relevant information available.
CHEMICAL STABILITY	Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.
POSSIBILITY OF HAZARDOUS REACTIONS	Risk of dust explosion if enriched with fine dust in the presence of air.
CONDITIONS TO AVOID	Keep away from heat and direct sunlight.
INCOMPATIBLE MATERIALS	Reacts with reducing agents. Reacts with heavy metals. Acids, bases and amines.
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide and carbon dioxide, Benzoic acid, Benzene, Carbon dioxide, SADT : 55°C

SECTION 11 – TOXICOLOGICAL INFORMATION

ACUTE/CHRONIC 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)
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	No information available.
PRIMARY ROUTE OF EXPOSURE	No information available.
HEALTH EFFECTS:	
EYES	Causes serious eye irritation.
SKIN	May cause skin irritation.
INHALATION	May cause an allergic skin reaction.
INGESTION	No information available.
STOT (SPECIFIC TARGET ORGAN TOXICITY)- SINGLE EXPOSURE	Based on available data, the classification criteria are not met.
STOT (SPECIFIC TARGET ORGAN TOXICITY) – REPEATED EXPOSURE	Based on available data, the classification criteria are not met.



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

CARCINOGENICITY Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY: Based on available data, the classification criteria are not met.

DEVELOPMENT OF OFFSPRING No information available

SEXUAL FUNCTION AND FERTILITY No information available

GERM CELL MUTAGENICITY Based on available data, the classification criteria are not met.

SECTION 12 – ECOLOGICAL INFORMATION

ECOTOXICITY Aquatic toxicity:
94-36-0 Dibenzoyl peroxide
LC50 : 0.06 mg/l 96h (fish)
EC50 : 0.11 mg/l 48h (Daphnia magna)
Remark: Toxic for fish

PERSISTENCE & DEGRADABILITY Easily biodegradable

BIODEGRADATION MOBILITY Mobility in soil : No further relevant information available.

BIOACCUMULATION POTENTIAL No further relevant information available.

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

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS Waste treatment methods:
Prevent seepage into sewage system, workpits and cellars.
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



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

UN-NUMBER
ADR, IMDG, IATA UN3106

UN PROPER SHIPPING NAME
ADR UN3106 ORGANIC PEROXIDE TYPE D, SOLID, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
IMDG ORGANIC PEROXIDE TYPE D, SOLID (dibenzoyl peroxide), MARINE POLLUTANT
IATA ORGANIC PEROXIDE TYPE D, SOLID

TRANSPORT HAZARD CLASS(ES):
ADR, IMDG, IATA Class 5.2 Organic peroxides., Label 5.2

PACKING GROUP
ADR, IMDG, IATA Void

ENVIRONMENTAL HAZARD
Product contains environmentally hazardous substances:
dibenzoyl peroxide
MARINE POLLUTANT: Yes

SPECIAL PRECAUTIONS FOR USERS
Warning: Organic peroxides.
Danger code (Kemler): -
Stowage Category: D
Stowage Code: SW1 Protected from sources of heat.
Segregation Code: SG35 Stow "separated from" SGG1-acids
SG36 Stow "separated from" SGG18-alkalis.
SG72 See 7.2.6.3.2.

EMS NUMBER: F-J,S-R

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE
Not applicable.

TRANSPORT/ADDITIONAL INFORMATION
ADR
Limited quantities (LQ): 500 g
Excepted quantities (EQ) 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, 5.2, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS



SAFETY DATA SHEET 25109

PMMA – IKO Perkadox

SECTION 15 - REGULATIONS

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: 3

National regulations:

Other regulations, limitations and prohibitive regulations

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

This product does not contain any SVHC's.

Chemical safety assessment:

A chemical safety assessment has been carried out for dibenzoyl peroxide

A chemical safety assessment is carried out for dicyclohexyl phthalate.

A Chemical Safety Assessment has not been carried out.

SECTION 16 – OTHER INFORMATION

REVISION DATE OF SDS June 02, 2022

REPLACES THE MSDS/SDS FROM (new)

PREPARED BY Research Department

GENERAL INFORMATION 1-888-766-2468

WEBSITE www.iko.com

OTHER INFO/DISCLAIMERS Read this Safety Data Sheet before handling or disposing of this product.

This product safety information is provided to help our customers with health, safety and/or environmental matters. We have taken reasonable effort to ensure that the test methods and sources for this data are correct and reliable, however, we give no warranty, expressed or implied, regarding its correctness. Since conditions or methods of handling and using this product are beyond our control, we do not assume responsibility and expressly disclaim liability for damages resulting from or connected with the handling, storage, use or disposal of the product.