

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version		Revision Date:	Date of last issue: 16.08.2022
1.1	DE / EN	17.08.2023	Date of first issue: 16.08.2022

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

1.1 Product identifier

Trade name : MEKP FL 505 SN
Product code : 131.002

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Curing chemical
Recommended restrictions on use : Industrial use, professional use, public use

1.3 Details of the supplier of the safety data sheet

Company : A.Förster & Co.KG
Esinger Steinweg 50
25436 Uetersen
Germany
info@foerster-co.de
Telephone : 04122-3682
Responsible Department : Laboratory
04122-3682
info@foerster-co.de

1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,
Göttingen, Deutschland
0551 19240

MEKP FL 505 SN

Version 1.1 DE / EN Revision Date: 17.08.2023 Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Organic peroxides, Type D	H242: Heating may cause a fire.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin corrosion, Sub-category 1B	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H242 Heating may cause a fire.
H302 + H332 Harmful if swallowed or if inhaled.
H314 Causes severe skin burns and eye damage.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P234 Keep only in original packaging.
P260 Do not breathe mist or vapors.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P310 Immediately call a POISON CENTER/ doctor.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version
1.1

DE / EN

Revision Date:
17.08.2023

Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazardous ingredients which must be listed on the label:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide
hydrogen peroxide solution
tributylamine

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Mixture
contains
Organic Peroxide

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	1338-23-4 700-954-4 01-2119514691-43	Org. Perox. D; H242 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 1.017 mg/kg	>= 25 - < 40

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version
1.1

DE / EN

Revision Date:
17.08.2023

Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

		Acute inhalation toxicity (dust/mist): 1,5 mg/l	
butanone	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system) EUH066	$\geq 1 - < 10$
hydrogen peroxide solution	7722-84-1 231-765-0 008-003-00-9	Ox. Liq. 1; H271 Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) Aquatic Chronic 3; H412 <hr/> specific concentration limit Ox. Liq. 1; H271 $\geq 70\%$ Ox. Liq. 2; H272 50 - < 70 % Skin Corr. 1A; H314 $\geq 70\%$ Skin Corr. 1B; H314 50 - < 70 % Skin Irrit. 2; H315 35 - < 50 % Eye Dam. 1; H318 8 - < 50 % Eye Irrit. 2; H319 5 - < 8 % STOT SE 3; H335 $\geq 35\%$	$\geq 1 - < 5$
tributylamine	102-82-9 203-058-7	Acute Tox. 4; H302 Acute Tox. 1; H330 Acute Tox. 2; H310 Skin Irrit. 2; H315 <hr/> Acute toxicity estimate Acute oral toxicity: 420 mg/kg Acute inhalation toxicity (vapor): 0,5 mg/l Acute dermal toxicity: 190 mg/kg	$\geq 0,1 - < 1$

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
Move out of dangerous area.
Take off contaminated clothing and shoes immediately.
Wash contaminated clothing before re-use.
Show this material safety data sheet to the doctor in attendance.
First aider needs to protect himself.
- If inhaled : Move to fresh air.
Oxygen or artificial respiration if needed.
Get medical attention immediately.
- In case of skin contact : Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Keep eye wide open while rinsing.
Remove contact lenses.
Protect unharmed eye.
Call a physician immediately.
- If swallowed : Do NOT induce vomiting.
Call a physician immediately.
Take victim immediately to hospital.
Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Harmful if swallowed or if inhaled.
Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically.
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO₂)
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Dry powder
Water spray jet
Alcohol-resistant foam

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit. Exposure to decomposition products may be a hazard to health.

Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment.
Evacuate personnel to safe areas.
Remove all sources of ignition.
Do not smoke.
Ensure adequate ventilation.
Avoid contact with skin, eyes and clothing.
Wear respiratory protection.
Avoid inhalation of vapor or mist.

6.2 Environmental precautions

Environmental precautions : Should not be released into the environment.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Cover with sand or earth. Scoop up and store in non-combustible container.
Keep in suitable, closed containers for disposal.
Non-sparking tools should be used.

After cleaning, flush away traces with water.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- | | | |
|---|---|---|
| Technical measures | : | Ensure that eyewash stations and safety showers are close to the workstation location. |
| Advice on safe handling | : | Wear personal protective equipment.
Keep away from heat and sources of ignition.
Handle and open container with care.
Keep container tightly closed and dry.
Never return unused material to storage receptacle.
Risk of decomposition.
Prevent contamination with readily oxidizable materials and polymerization accelerators.
In case of insufficient ventilation, wear suitable respiratory equipment.
Do not breathe vapors/dust.
Avoid formation of aerosol.
Avoid contact with eyes. |
| Advice on protection against fire and explosion | : | Keep away from open flames, hot surfaces and sources of ignition. Keep away from direct sunlight. Avoid shock and friction. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Vapors may form explosive mixtures with air. |

7.2 Conditions for safe storage, including any incompatibilities

- | | | |
|---|---|---|
| Requirements for storage areas and containers | : | Store in original container. Store in cool place. Store between 41 and 77 °F in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store away from other materials. |
| Advice on common storage | : | Keep away from strong acids, bases, heavy metal salts and other reducing substances.
Keep away from food, drink and animal feedingstuffs.
Organic peroxides
Keep away from oxidizing agents, strongly acid or alkaline materials and amines. |
| Storage class (TRGS 510) | : | 5.2 |

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version
1.1

DE / EN

Revision Date:
17.08.2023

Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

7.3 Specific end use(s)

Specific use(s)

: No data available

The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
butanone	78-93-3	TWA	200 ppm 600 mg/m ³	2000/39/EC
		Further information: Indicative		
		STEL	300 ppm 900 mg/m ³	2000/39/EC
		Further information: Indicative		
		AGW	200 ppm 600 mg/m ³	DE TRGS 900
		Peak-limit category: 1;(I)		
		Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
2-(2-ethoxyethoxy)ethanol	111-90-0	AGW (Vapour and aerosols)	6 ppm 35 mg/m ³	DE TRGS 900
		Peak-limit category: 2;(I)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
butanone	78-93-3	TWA	200 ppm 600 mg/m ³	2000/39/EC
		Further information: Indicative		
		STEL	300 ppm 900 mg/m ³	2000/39/EC
		Further information: Indicative		
		AGW	200 ppm 600 mg/m ³	DE TRGS 900
		Peak-limit category: 1;(I)		
		Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
hydrogen peroxide solution	7722-84-1	AGW	0,5 ppm 0,71 mg/m ³	DE TRGS 900
		Peak-limit category: 1;(I)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		

Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
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SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version
1.1

DE / EN

Revision Date:
17.08.2023

Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

butanone	78-93-3	2-butanone: 2 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
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Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxidibutane-2,2-diyl dihydroperoxide	Workers	Inhalation	Long-term systemic effects	5288 mg/m ³
	Workers	Dermal	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,75 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,125 mg/m ³
butanone	Consumers	Skin contact	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	600 mg/m ³
	Workers	Skin contact	Long-term systemic effects	1161 mg/kg
	Consumers	Inhalation	Long-term systemic effects	106 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	412 mg/kg
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxidibutane-2,2-diyl dihydroperoxide	Consumers	Oral	Long-term systemic effects	31 mg/kg
	Workers	Inhalation	Long-term systemic effects	5288 mg/m ³
	Workers	Dermal	Long-term systemic effects	3 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0,75 mg/kg bw/day
2-(2-ethoxyethoxy)ethanol	Consumers	Inhalation	Long-term systemic effects	1,125 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	1,5 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	30 mg/m ³
butanone	Consumers	Inhalation	Long-term local effects	18 mg/m ³
	Consumers	Oral	Long-term systemic effects	50 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	600 mg/m ³
	Workers	Skin contact	Long-term systemic effects	1161 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version
1.1

DE / EN

Revision Date:
17.08.2023

Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

			effects	
	Consumers	Inhalation	Long-term systemic effects	106 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	412 mg/kg
	Consumers	Oral	Long-term systemic effects	31 mg/kg

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	Fresh water	0,006 mg/l
	Fresh water sediment	0,088 mg/kg dry weight (d.w.)
	Soil	0,014 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	1,2 mg/l
butanone	Fresh water	55,8 mg/l
	Sea water	55,8 mg/l
	Sewage treatment plant (STP)	709 mg/l
	Fresh water sediment	284,74 mg/kg
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	Sea sediment	284,7 mg/kg
	Soil	22,5 mg/kg
	Fresh water	0,006 mg/l
	Fresh water sediment	0,088 mg/kg dry weight (d.w.)
butanone	Soil	0,014 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	1,2 mg/l
	Fresh water	55,8 mg/l
	Sea water	55,8 mg/l
Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide	Sewage treatment plant (STP)	709 mg/l
	Fresh water sediment	284,74 mg/kg
	Sea sediment	284,7 mg/kg
	Soil	22,5 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Nitrile rubber
Directive : DIN EN 374

Material : Neoprene
Directive : DIN EN 374

Material : PVC
Directive : DIN EN 374

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

- Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.
- Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.
Long sleeved clothing
- Respiratory protection : Apply technical measures to comply with the occupational exposure limits.
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Respirator with combination filter for vapor/particulate (EN 141)
In the case of hazardous fumes, wear self contained breathing apparatus.
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.
Avoid contact with the skin and the eyes.
Use only with adequate ventilation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Color : colorless
- Odor : pungent
- Melting point/freezing point : Not applicable
- Boiling point/boiling range : Not applicable
Decomposition
- Flash point : 61 °C
Method: ISO 3679, closed cup
- Self-Accelerating decomposition temperature (SADT) : 60 °C
Method: The value is calculated
Packaging size (Mass): 25 kg
- pH : 4,7 (20 °C)
Concentration: 100 %

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Viscosity
Viscosity, dynamic : No data available
Viscosity, kinematic : No data available
Partition coefficient: n-octanol/water : No data available
Vapor pressure : No data available
Density : ca. 1,1 g/cm³ (20 °C)

9.2 Other information

Oxidizing properties : Organic peroxide
Sustains combustion
Available oxygen content : 9,0 - 9,4 %

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if used as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Heating may cause a fire.
Risk of decomposition.
Reacts violently in contact with acids, amines, driers, polymerization accelerators and easily oxidized materials.

10.4 Conditions to avoid

Conditions to avoid : Temperature < -10 °C
Protect from frost.
Temperature > 30 °C
Decomposes at elevated temperatures.
Extremes of temperature and direct sunlight.
Contact with incompatible substances can cause decomposition at or below SADT.
Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
Rust

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Strong oxidizing agents
Strong reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition
Carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity	:	Acute toxicity estimate: <= 2.000 mg/kg
Acute inhalation toxicity	:	Acute toxicity estimate: <= 20 mg/l Exposure time: 4 h Test atmosphere: vapor
Acute dermal toxicity	:	Acute toxicity estimate: > 2.000 mg/kg Method: Calculation method

Components:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Acute oral toxicity	:	LD50 Oral (Rat): 1.017 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	Acute toxicity estimate: 1,5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The component/mixture is moderately toxic after short term inhalation. Remarks: Based on data from similar materials
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 4.000 mg/kg Method: OECD Test Guideline 402

butanone:

Acute oral toxicity	:	LD50 Oral (Rat): 3.460 mg/kg Method: OECD Test Guideline 423
Acute dermal toxicity	:	LD50 Dermal (Rabbit): 5.000 mg/kg Method: OECD Test Guideline 402

tributylamine:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Acute oral toxicity : LD50 Oral (Rat): 420 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0,5 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 Dermal (Rabbit): 190 mg/kg

Skin corrosion/irritation

Causes severe burns.

Components:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Result : Corrosive after 3 minutes to 1 hour of exposure

tributylamine:

Result : Skin irritation

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

Components:

hydrogen peroxide solution:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue:
1.1 DE / EN	17.08.2023	16.08.2022
		Date of first issue: 16.08.2022

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 44,2 mg/l
End point: mortality
Exposure time: 96 h
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 39 mg/l
Exposure time: 48 h
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 3,2 mg/l
End point: Biomass
Exposure time: 72 h
Method: Regulation (EC) No. 440/2008, Annex, C.3

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

butanone:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2.993 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 308 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.972 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

hydrogen peroxide solution:

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

tributylamine:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1,4 mg/l
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : NOEC: 315 mg/l
Exposure time: 28 d
Species: Danio rerio (zebra fish)

Ecotoxicology Assessment

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

12.2 Persistence and degradability

Components:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Biodegradability : Result: rapidly biodegradable
Method: OECD Test Guideline 301B

12.3 Bioaccumulative potential

Components:

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide:

Partition coefficient: n-octanol/water : log Pow: 2,04 (25 °C)

butanone:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

Partition coefficient: n-octanol/water : log Pow: 0,3 (40 °C)
pH: 7

hydrogen peroxide solution:

Partition coefficient: n-octanol/water : log Pow: -1,57 (20 °C)

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Product : Do not mix waste streams during collection.
Do not dispose of with domestic refuse.
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
Dispose of in accordance with local regulations.
- Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.
Dispose of in accordance with local regulations.
- Waste Code : The following Waste Codes are only suggestions:
16 05 06, laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chem-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version 1.1 DE / EN Revision Date: 17.08.2023 Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

icals
16 09 03, peroxides, for example hydrogen peroxide

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 3105
ADR : UN 3105
RID : UN 3105
IMDG : UN 3105
IATA : UN 3105

14.2 UN proper shipping name

ADN : ORGANIC PEROXIDE TYPE D, LIQUID
(Methyl Ethyl Ketone Peroxide)
ADR : ORGANIC PEROXIDE TYPE D, LIQUID
(Methyl Ethyl Ketone Peroxide)
RID : ORGANIC PEROXIDE TYPE D, LIQUID
(Methyl Ethyl Ketone Peroxide)
IMDG : ORGANIC PEROXIDE TYPE D, LIQUID
(Methyl Ethyl Ketone Peroxide)
IATA : Organic peroxide type D, liquid
(Methyl Ethyl Ketone Peroxide)

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 5.2	
ADR	: 5.2	
RID	: 5.2	
IMDG	: 5.2	
IATA	: 5.2	HEAT

14.4 Packing group

ADN
Packing group : Not assigned by regulation
Classification Code : P1
Labels : 5.2

ADR
Packing group : Not assigned by regulation
Classification Code : P1
Labels : 5.2
Tunnel restriction code : (D)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue:
1.1 DE / EN	17.08.2023	16.08.2022
		Date of first issue: 16.08.2022

RID

Packing group : Not assigned by regulation
Classification Code : P1
Hazard Identification Number : 539
Labels : 5.2

IMDG

Packing group : Not assigned by regulation
Labels : 5.2
EmS Code : F-J, S-R

IATA (Cargo)

Packing instruction (cargo aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat

IATA (Passenger)

Packing instruction (passenger aircraft) : 570
Packing group : Not assigned by regulation
Labels : Organic Peroxides, Keep Away From Heat

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75, 3

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version 1.1 DE / EN Revision Date: 17.08.2023 Date of last issue: 16.08.2022
Date of first issue: 16.08.2022

If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. hydrogen peroxide solution (ANNEX I)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P6b SELF-REACTIVE SUBSTANCES AND MIXTURES and ORGANIC PEROXIDES

Water hazard class (Germany) : WGK 1 slightly water endangering
Classification according to AwSV, Annex 1 (5.2)

Other regulations:

BG-Merkblatt M001 beachten (German regulatory requirements)
BGV B4 organische Peroxide. (German regulatory requirements)
Gefahrengruppe nach § 3 BGV B4: Ib, S++

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

§ 5Abs. 4b : Derogation according to the Ordinance on the Prohibition of Chemicals (ChemVerbotsV)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

15.2 Chemical Safety Assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

SECTION 16: Other information

Full text of H-Statements

H225	: Highly flammable liquid and vapor.
H242	: Heating may cause a fire.
H271	: May cause fire or explosion; strong oxidizer.
H302	: Harmful if swallowed.
H310	: Fatal in contact with skin.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H330	: Fatal if inhaled.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H412	: Harmful to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Org. Perox.	: Organic peroxides
Ox. Liq.	: Oxidizing liquids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT SE	: Specific target organ toxicity - single exposure
2000/39/EC	: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	: c - Biological limit values
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
DE TRGS 900 / AGW	: Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good La-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



MEKP FL 505 SN

Version	Revision Date:	Date of last issue: 16.08.2022
1.1 DE / EN	17.08.2023	Date of first issue: 16.08.2022

boratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Org. Perox. D	H242
Acute Tox. 4	H302
Acute Tox. 4	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318

Classification procedure:

Based on product data or assessment

Expert judgment and weight of evidence determination.

Expert judgment and weight of evidence determination.

Calculation method

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN